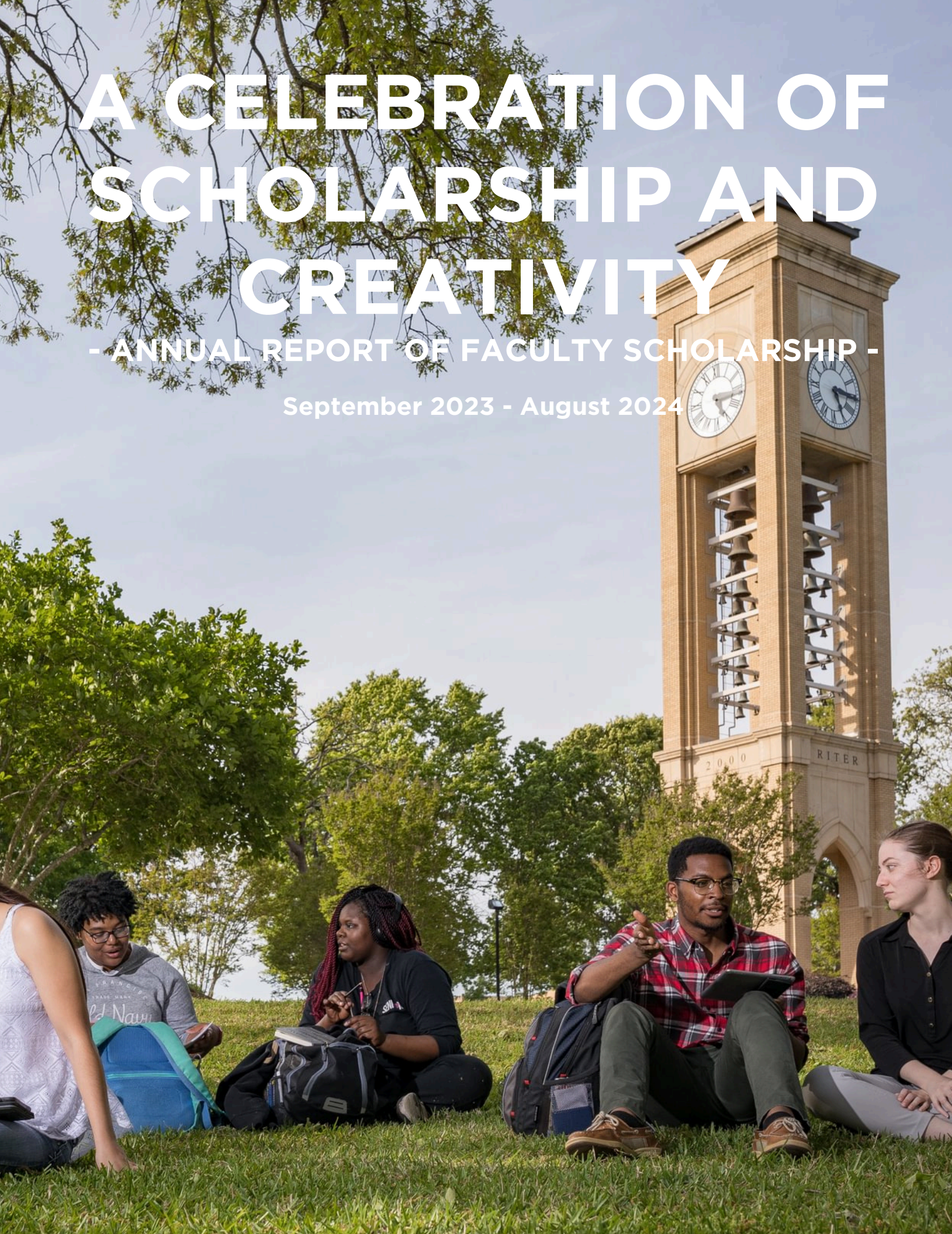


A CELEBRATION OF SCHOLARSHIP AND CREATIVITY

- ANNUAL REPORT OF FACULTY SCHOLARSHIP -

September 2023 - August 2024





As we celebrate the scholarly achievements of our faculty, physicians and students in this issue of “A Celebration of Scholarship and Creativity,” you will recognize the importance we place on research and scholarship for the betterment of our East Texas community and beyond.

This magazine illustrates that at UT Tyler research is more than an academic pursuit. For our physicians, faculty and students, it is a tool for understanding, solutions and impact. They are dedicated to expanding the boundaries of knowledge, examining new possibilities and developing solutions to address both local and global issues.

Please join us in celebrating these incredible contributions. I could not be prouder of their commitment to making the world a better place.

*Julie V. Philley, MD
President, The University of Texas at Tyler*



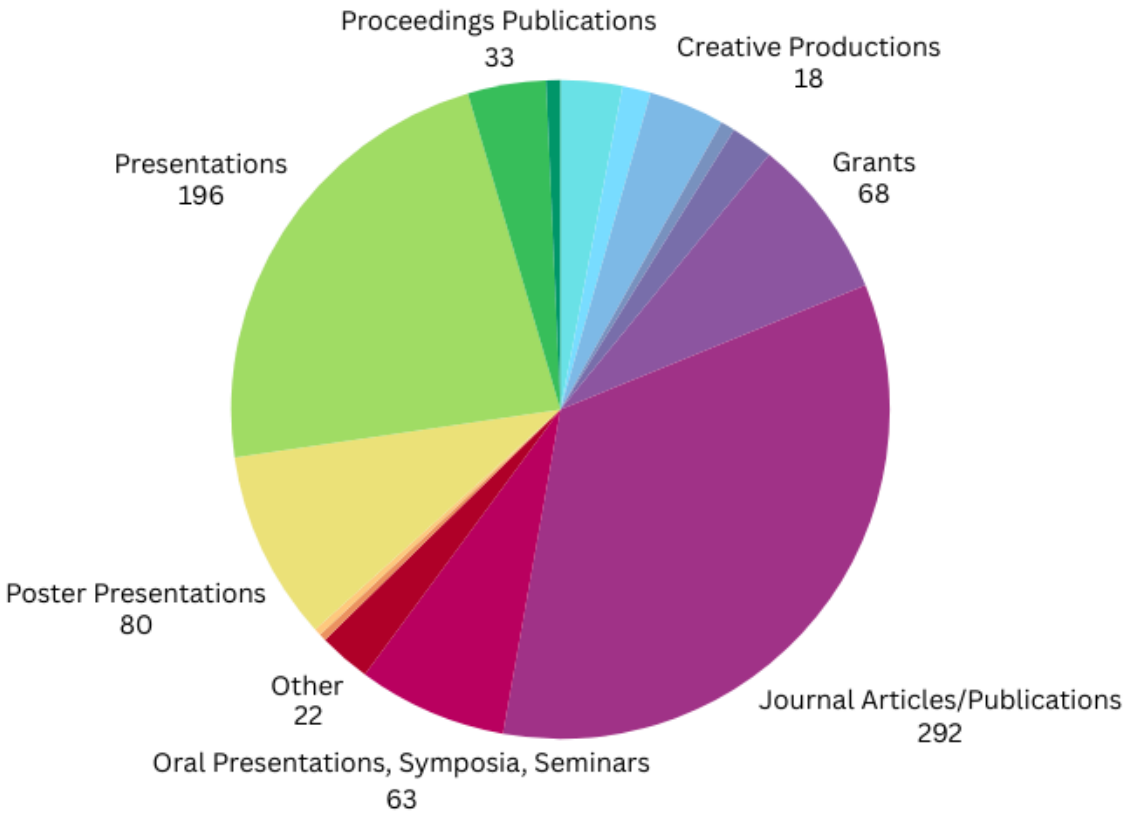
TABLE OF CONTENTS

| | |
|---|---------------|
| College of Arts and Sciences | p. 7 |
| College of Education and Psychology | p. 25 |
| College of Engineering | p. 40 |
| Ben and Maytee Fisch College of Pharmacy | p. 52 |
| School of Health Professions | p. 58 |
| School of Medicine | p. 64 |
| School of Nursing | p. 98 |
| Soules College of Business | p. 106 |



The Robert R. Muntz Library and the Watson W. Wise Medical Research Library staffs are pleased to gather, curate, and acknowledge The University of Texas at Tyler faculty's scholarly and creative works. As primary knowledge supporters for our institution, the librarians work with faculty through individual consultations, resource instruction, mediated searching and systematic review support to promote their academic endeavors. On behalf of the University Libraries, I congratulate you on your scholarly and creative accomplishments for the 2023-2024 academic year.

*Becky McKay, MA, MLIS
Dean of Libraries*



This annual review is compiled to promote scholarship and document a record of the published and creative works of The University of Texas at Tyler faculty for academic year 2023-24. Information was compiled from Faculty180®, the University's platform for faculty activity reporting.



The College of Arts and Sciences at The University of Texas at Tyler is a crossroad for academic exploration and innovation, seamlessly integrating learning with life through an unwavering commitment to discovery. Our dedicated faculty and staff provide top-tier education and scholarship across a broad spectrum of disciplines within the humanities, sciences, arts, and social sciences. At the heart of our college lies a deep respect for the scholarship and expertise of our faculty. The arts and sciences are vital to the intellectual and cultural fabric of any society, and our faculty's diverse contributions significantly enhance understanding and advancement in various fields. This past year has been particularly noteworthy, with our faculty making substantial and impactful strides in both the academic world and broader society, reflecting our commitment to excellence and relevance in an ever-changing world.

In the Fine and Performing Arts, our faculty have made outstanding contributions that blend visual creativity with auditory expression. Their groundbreaking work in exhibitions and historical analysis of visual culture intersects seamlessly with the dynamic performances in music and theater, showcasing the power of artistic synergy. These endeavors highlight the importance of integrating various forms of art, offering a comprehensive view of the role creativity plays in enriching our understanding of human experience and cultural development.

In the sciences, our Biology, Chemistry, Biochemistry, and Mathematics faculty, have made significant strides in scientific knowledge. Their innovative work in areas like environmental biology, genetic research, and molecular science demonstrates a commitment to understanding and solving complex natural phenomena. These efforts bridge the gap between the living world and chemical processes, contributing to advancements in areas such as healthcare, environmental conservation, and sustainable technology. This collaborative approach in scientific inquiry highlights the integration of disciplines in uncovering the mysteries of life and matter. Mathematics, often regarded as the queen of all sciences, underpins all of science, providing the foundational language and analytical tools that drive discovery in these fields. Our faculty's work from advancing the understanding of numerical methods to exploring the vast reaches of abstract algebra, has far-reaching implications in various fields, including engineering, computer science, and data analysis.

In the intertwined spheres of Communication and Literature & Languages, our faculty have explored the power of language and media in shaping human interaction and understanding. Their research delves into the complexities of digital communication, media dynamics, and the rich diversity of literary works across cultures and times.

COLLEGE OF ARTS AND SCIENCES

This amalgamation highlights the significant role of language and communication in reflecting and influencing societal trends, cultural narratives, and personal identities. The synergy in these fields underscores the importance of effective communication and the profound impact of literary expression in our increasingly connected world.

In the closely linked areas of History and Political Science, our faculty have been diligently exploring the intricate tapestry of past events and contemporary governance. Their work provides insightful analysis of historical occurrences alongside a deep understanding of modern political dynamics. This merging of perspectives offers a comprehensive view of how historical contexts shape current political structures and policies, and vice versa. The collaborative efforts in these disciplines enhance our understanding of the forces that have shaped and continue to influence societies and governments globally.

In the diverse field of Social Sciences, encompassing Anthropology, Criminal Justice, Social Work, and Economics, our faculty have been at the forefront of examining the intricacies of human society and behavior. Anthropology has shed light on cultural and societal development, exploring the rich tapestry of human history and diversity. In Criminal Justice, our experts have delved into the nuances of law enforcement, legal systems, and societal responses to crime, contributing to a more just and equitable society. The field of Social Work has been instrumental in addressing social welfare and human rights, advocating for vulnerable populations, and fostering community development. Meanwhile, Economics has provided critical insights into market dynamics, financial systems, and resource distribution, playing a pivotal role in understanding, and shaping economic policies and practices.

Together, these disciplines provide a comprehensive view of societal structures and dynamics, highlighting the interplay between individual behavior, societal norms, and institutional frameworks. The list of our faculty scholarly contributions is substantial. These examples show that they contribute across important areas of knowledge and creativity. The College of Arts and Sciences is at the crossroads of society, culture, and higher education. The faculty in the College of Arts and Sciences are extraordinary scholars, teachers, and mentors. Their student focus is evident in everything they do, including scholarly and creative work. The ability of our students to participate in research and then present or publish the results alongside their faculty mentor is important.

Neil Gray, Ph.D.
Dean, College of Arts & Sciences.

ART AND ART HISTORY

CHAPTERS

Matuszak, J. (2024). The Afterlife of Meetings. In 8 Acts of Love edited by Alice Bell and Carron Little (p. 66–89). University of Lincoln.

CREATIVE PRODUCTIONS

Wright, M. (2023, August 14–October 13). UT Tyler Studio Art Faculty Exhibition. In Meadows Gallery. University of Texas at Tyler.

Wright, M. (2023–2024). The Practice is the Point. Group Exhibition, Participant in the “Empty Bowls” artwork, Organized by Steve Hilton. In Plains Art Museum. Plains Art Museum.

Wright, M. (2024, January 12–February 23). Small Scale Sculpture Exhibition. Juried Exhibition, Juror: Jae Eun Lee. In Clay Center of New Orleans. Clay Center of New Orleans.

Wright, M. (2024, February 2–March 29). 8th Central Time Ceramics. Juried Exhibition, Juror: Janis Mars Wunderlich. Bradley University.

JOURNAL PUBLICATIONS

Lisot-Nelson, E. A. (2023). The Jewish Bride and Oriental Concubine: Raphael’s Donna Velata and La Fornarina. Renaissance Papers, 27, 15–34.
<https://boydellandbrewer.com/9781640141643/renaissance-Papers-2022/>

Matuszak, J. (2024). A Post-Soviet Experiment: Coining ‘Moscow Actionism.’ Third Text, 38(3), 330–348.
<https://doi.org/10.1080/09528822.2024.2385223>

Matuszak, J. (2024). Together in the Courtyard: Paulina Olowska’s Naughty Nymphs in the Courtyard of the Favorites at the Art Institute of Chicago. PAJ: A Journal of Performance and Art, 46(1), 102–105.
https://doi.org/10.1162/pajj_a_00701

OTHER

Wright, M. (2024). Artist-in-Residence, 5 weeks. Skopelos Foundation for the Arts.

PRESENTATIONS

Lisot-Nelson, E. A. (2024, January). Invited lecture at University of St. Thomas: “Sweet Success: How the Cassatt and Havemeyer Families Brought French Impressionism to America”. In Allbritton Art Institute presentation. Allbritton Art Institute and University of St. Thomas.

Lisot-Nelson, E. A. (2024, March). Hidden in Plain Sight: Moriscos and Conversos in the Paintings and Life of Diego Velázquez. In Renaissance Society of America Annual Meeting, Chicago.

Matuszak, J. (2023). The Nostalgic Lens: Exhibiting Art of the Global East in the West. In Association of Slavic, East European, and Eurasian Studies Convention.

Matuszak, J. (2023). The Nostalgic Lens: Exhibiting Art of the Global East in the West after 1989. In What is To Be Done? Methodological Challenges to Art Historical Research in Central and Eastern Europe. International Conference.

ART AND ART HISTORY

PRESENTATIONS

Wright, M. (2023, September). ‘Recent Work: Brick by Brick,’ Gallery talk in conjunction with the 2023 UT Tyler Studio Art Faculty Exhibition. In Meadows Gallery, University of Texas at Tyler. Meadows Gallery, University of Texas at Tyler.

Wright, M. (2024, July 14). Artist Talks and Studio Presentation, June-July Resident Artists. In Skopelos Foundation for the Arts. Skopelos Foundation for the Arts.

REVIEWS

Lisot-Nelson, E. A. (2023). Book Review of Young Kim, David. Ground Work: A History of the Renaissance Picture. Renaissance and Reformation, 46(1), 264.



BIOLOGY

BOOKS

Fischer, S. J., Green, C. F., & Wojtyna, A. (2023). Human Zombie Biology 3rd edition (p. 224). Kendall Hunt.
<https://he.kendallhunt.com/product/human-zombie-biology-what-you-need-know-survive-zombie-apocalypse>

CHAPTERS

Shartau, R., & Baker, D. (2024). Integrative Responses to Hypercapnia. In Encyclopedia of Fish Physiology (pp.168-184). Elsevier.

JOURNAL PUBLICATIONS

Behringer, M. G., Ho, W.-C., Miller, S. F., Worthan, S. B., Cen, Z., Stikeleather, R., & Lynch, M. (2024). Trade-offs, trade-ups, and high mutational parallelism underlie microbial adaptation during extreme cycles of feast and famine. Current Biology, 34, 1403–1413.e5.

Greenwold, M. J., Merritt, K., Richardson, T. L., & Dudycha, J. L. (2023). A three-genome ultraconserved element phylogeny of Cryptophytes. Protist, 174(6).
<https://doi.org/10.1016/j.protis.2023.125994>

Li, C., Yu, R., Ning, W., Zhong, H., & Sonne, C. (2024). Embracing digital mindsets to ensure a sustainable future. Frontiers of Environmental Science & Engineering, 18, Article 39.
<https://doi.org/10.1007/s11783-024-1799-0>

Perry, R. I., Nemcek, N., Hennekes, M., Sastri, A., Ross, A. R. S., Shannon, H., & Shartau, R. B. (2023). Domoic acid in Canadian Pacific waters, from 2016 to 2021, and relationships with physical and chemical conditions. Harmful Algae, 129.
<https://doi.org/10.1016/j.hal.2023.102530>

BIOLOGY

JOURNAL PUBLICATIONS

Seal, J. N., Greenwold, M. J., Kellner, K., & Bringham, B. (2024). Symbiosis, dysbiosis and the impact of horizontal exchange on bacterial microbiomes in higher fungus-gardening ants. *Scientific Reports*, 14, 1-15. <https://doi.org/10.1038/s41598-024-53218-6>

Swanson, J., Greenwold, M. J., Richardson, T., & Dudycha, J. (2024). A test of the gleaner-opportunist trade-off among photosynthetic traits in Cryptophyte algae. *Ecosphere*, 15(7). <https://doi.org/10.1002/ecs2.4945>

Zhong, H., Tang, W., Li, Z., Sonne, C., Lam, S. S., Zhang, X., Kwon, S. Y., Rinklebe, J., Nunes, L., Yu, R., Gu, B., Tsui, M., Zhao, J., Zhou, X.-Q., Wu, M., Chen, L., Zhang, B., Tan, W., Zhang, X., ... Liu, Y.-R. (2024). Soil Geobacteraceae are the key predictors of neurotoxic methylmercury bioaccumulation in rice. *Nature Food*, 5, 301-311. <https://www.nature.com/articles/s43016-024-00954-7>

POSTER PRESENTATIONS

Azghani, A. O., Aiyejuto, D., Tamayo, S., & Taden, J. (2024, April). The Impact of Pneumolysin from *Streptococcus pneumoniae* on paracellular permeability and cytokine secretion by Calu-3 cell line. In *Biology Honor Society*. Tri Beta.

Azghani, A. O., & Florova, G. (2024, May). Treatment of advanced stage empyema in a rabbit model with two injections of sctPA or scuPA. In *American Thoracic Society*. ATS.

Azghani, A. O., Idell, S., & De Vera, C. (2024, May). Experimental Model of Chest Trauma: A Clinically Relevant Model of Retained Hemothorax Amenable to Testing Intrapleural Fibrinolytic Therapy. In *American Thoracic Society*. ATS.

Boshers, E., Kellner, K., & Seal, J. N. (2023, November). Phylosymbiosis of fungus-gardening ant symbiomes. In *Annual Meeting of the Entomological Society of America*.

Conneen, C., Burgett, S., Schubert, N., Dickson, J., & Banta, J. A. (2024, Summer). Predicting Habitat Suitability of Crayfish Using a Multiple Logistic Regression Accounting for Spatial Autocorrelation. In *Texas Chapter of the American Fisheries Society Annual Meeting*. Texas Chapter of the American Fisheries Society.

Ho, W.-C. (2023, November). Artificial selection for cell sizes in *Saccharomyces cerevisiae*. In *SMBE Satellite Meeting on Mechanisms of Cellular Evolution*.

Ho, W.-C. (2024, March). Non-adaptive mechanisms of metabolic evolution of *Escherichia coli* in a complex environment. In *The Allied Genetics Conference 2024*. Genetics Society of America.

Kellner, K. (2023, November). Population genetics of the imperiled Harvester ant *Pogonomyrmex comanche*. In *Annual Meeting of the Entomological Society of America*.

BIOLOGY

POSTER PRESENTATIONS

Koch, T. N., Wilsey, R. N., Banta, J. A., Crooks, J. L., & Honda, J. R. (2024, Summer). Investigating Nontuberculous Mycobacteria as Climate Sensitive Environmental Pathogens Using the National Ecological Observatory Network (NEON). In *American Thoracic Society Annual Meeting*. American Thoracic Society.

Romero, A., El-Halawany, M. S., Hamouda, A. K., & Bill, B. R. (2023, November 14). An Expression based approach to assessing a Parkinson's Disease-like state in 6-OHDA exposed Zebrafish larvae. In *Neuroscience 2023*. Society for Neuroscience.

Zoe, W., Coleman, J. L., & Greenwold, M. J. (2024, July). Evaluation of eBird data validity using wetland point-counts in the Red River Basin. In *AFO-SCO-WOS 2024 Joint Meeting*.

PRESENTATIONS

Azghani, A. O., Nwachukwu, E., Abdulaziz, M., & Patterson, D. (2024, April). Molecular Mechanism of *Pseudomonas*-induced Activation of Epidermal Growth Factor Receptor. In *East Texas Research Conference*. UT-Tyler.

Bringham, B., Kellner, K., Greenwold, M. J., & Seal, J. N. (2023, November). Microbiome structure of dysbiotic and symbiotic associations of fungus-gardening ants. In *Annual Meeting of the Entomological Society of America*.

Burgett, S., Schubert, N., Dickson, J., Smith, S.-L., Kellner, K., & Banta, J. A. (2024, Spring). High-resolution species distribution modeling of endemic Texas crayfish species under current and future conditions. In *Texas Chapter of the American Fisheries Society Annual Meeting*. Texas Chapter of the American Fisheries Society.

Elaxis, A., Coleman, J. L., & Greenwold, M. J. (2024, July). Comparing Reconstructed, Natural, and Alternatively Used Wetlands Within The Red River Basin Using Diversity Indices. In *AFO-SCO-WOS 2024 Joint Meeting*.

Elizabeth, B., Kellner, K., Greenwold, M. J., & Seal, J. N. (2023, September). Phylosymbiosis of fungus-gardening ant symbiomes. In *Annual Meeting of the German Zoological Society*.

Ho, W.-C. (2023, October 27). Trade-offs, trade-ups, and molecular parallelism in microbial adaptation to long feast/famine cycles. In *Texas Branch ASM Fall Meeting 2023*. Texas Branch ASM.

Honda, J. R., Wilsey, R. N., Terrell, M., Ding, L., & Banta, J. A. (2024, April). Impacts of climate changes on emergence of environmentally acquired nontuberculous Mycobacteria. In *5th Annual East Texas Research Conference*. University of Texas at Tyler.

BIOLOGY

PRESENTATIONS

Kellner, K. (2024, March). Microbial Ecology of Ants and their Symbionts. In The Diversification of Juergen Heinze Symposium.

Lancaster, R., Banta, J. A., Greenwold, M. J., Dickson, J., & Williams, L. R. (2024, Spring). Using capture-recapture to assess the survivorship of relocated mussel community in the Lower Sulphur River. In Texas Chapter of the American Fisheries Society Annual Meeting. Texas Chapter of the American Fisheries Society.

Richards-Perhatch IV, M., & Seal, J. N. (2023, November). Novel use of dietary DNA to explore niche separation in two geographically sympatric non-leaf-cutting higher attines. In Annual Meeting of the Entomological Society of America.

Rumbelow, S., Bill, B. R., & Williams, L. R. (2023, Summer). The Potential Impacts of Climate Change on Freshwater Mussels And Crayfish In Texas. In Southwestern Naturalist. SWAN.

Seal, J. N., & Kellner, K. (2023, September). Microbiome structure of dysbiotic and symbiotic associations of fungus-gardening ants. In Annual Meeting German Zoological Society.

Seal, J. N., Kellner, K., Greenwold, M. J., & Bringhurst, B. (2023, September). Symbiosis, dysbiosis and the impact of horizontal exchange on bacterial microbiomes in higher fungus-gardening ants. In Annual Meeting of the German Zoological Society.

Seal, J. N. (2024, March). Impact of range limits to symbiont diversity and specificity in fungus-gardening ants. In The Diversification of Jürgen Heinze.

GRANTS

Banta, J. Aggregation and Collation of Texas Crayfish, Texas Parks & Wildlife Dept 802, (November 1, 2023), USD \$116,045.

Greenwold, M. Texas Crayfish, Texas Parks & Wildlife Dept 802, (November 1, 2023), USD \$74,632.

Greenwold, M. (PI), Litterschmidt, W. (PI). Use of LAMP eDNA Assay in Endangered Houston Toad, Texas Comptroller of Public Accounts, (November 23, 2023), USD \$99,902.

Ford, N. An update on freshwater mussels in River Basins, Louisiana Dept of Wildlife and Fisheries, (January 1, 2024), USD \$73,398.

Seal, J., Kellner, K. (Co-PI), Greenwold, M. (Co-PI). Collaborative Research: RUI: The influence of ants, National Science Foundation, Division of Environmental Biology, (September 1, 2023), USD \$124,386.

Shartau, R. Crayfish Environmental Tolerances and Habitat, TX Comptroller, (March 1, 2024), USD \$180,371.40.

Williams, L. Distribution of the Australian redclaw crayfish in Texas, Texas Parks and Wildlife, (September 1, 2023), USD \$31,805.



CHEMISTRY AND BIOCHEMISTRY

POSTER PRESENTATIONS

Johns, S., Jarrell, J., Conneen, E., & Zhang, K. (2024, April). Computer simulation and machine learning studies of lipid nanoparticles for mRNA delivery. In ACS2024 local Research Renaissance Celebration of Student Expertise.



COMMUNICATION

JOURNAL PUBLICATIONS

Gustafson, E. (2024). A brief and begrudged reflection on AI in education. *Ohio Communication Journal*, 62, 50-52.

Gustafson, E. (2024). AI and Quantum Computation: Hardware and Ethics. *Media Ethics Magazine*, 36(1). <https://www.mediaethicsmagazine.com/index.php/browse-back-issues/221-fall-2023-vol-36-no-1/3999424-ai-and-quantum-computation-hardware-and-ethics>

Gustafson, E. (2024). High highs, Low lows: Artists and anti-environments in the 21st century. *Explorations in Media Ecology*, 23(1), 13-24. https://doi.org/10.1386/eme_00189_1

Gustafson, E. (2024). Probing the Limits of Figures and Grounds: Artificial Intelligence and Quantum Computation. *New Explorations: Studies in Culture and Communication*, 4(1), 1-10. <https://jps.library.utoronto.ca/index.php/nexj/article/view/43305/32722>

Yergensen, B. (2024). Marginalizing mortality: The fight against death as the communicative cultural condition. *Review of Communication*, 24(4). <https://doi.org/10.1080/15358593.2024.2370375>

Yergensen, B. (2024). Popular Narratology as the Swivel of Death's Door: Rhetoric as Transition and Transcendence. *Communication Quarterly*, 72(3). <https://doi.org/10.1080/01463373.2024.2325349>

Yergensen, B. (2024). Robin Hood in a casino: Perfecting vigilante justice in Ocean's cinematic rhetoric in post 9/11 America. *Journal of Criminal Justice and Popular Culture*, 24(1).

Yergensen, B. (2024). The elusive killer in didactic cinema: Conceptualizing Munch-ian art and Adorno's negative dialectics in horror. *Canadian Review of American Studies*, 54(2), 133-152. <https://doi.org/10.3138/cras-2024-002>

Yergensen, B. (2024). The Batman and the redemption of first responders: The culmination of a rhetoric of rescue during covid, Trump, and protest. *Northern Lights: Film and Media Studies Yearbook (Journal)*, 21(1). https://doi.org/10.1386/nl_00046_1



HISTORY

CHAPTERS

Stith, M. M. (2024). "Of Rats and Men: The Decisive Role of Rodents on the Western Front." In New Perspectives on the First World War: Beyond No Man's Land (pp.73-88). Palgrave MacMillan.
<https://doi.org/10.1007/978-3-031-49325-6>

Stith, M. M., & Link, M. (2024). "All Quiet on Every Front: Fighting the Great War Beyond No Man's Land." In New Perspectives of the First World War: Beyond No Man's Land (pp.1-13). Palgrave Macmillan.
<https://doi.org/10.1007/978-3-031-49325-6>

JOURNAL PUBLICATIONS

Snider, C. (2024). The Quest for Memory and Truth at the Local Level: University Truth Commissions in Brazil. The Latin Americanist, 68(1).
<https://doi.org/10.1353/tla.2024.a923805>

PRESENTATIONS

Stith, M. M. (2023, October). "Vermin in the Trenches: Rats, Lice, and the British Experience in the First World War." In Northeast Conference on British Studies. Northeast Conference on British Studies.



LITERATURE AND LANGUAGES

BOOKS

Ross, C. E. (2023). Educating the Romantic Poets, Life and Learning in the Anglo-Classical Academy 1770-1850 (p. 400). Liverpool University Press.
<https://doi.org/10.2307/jj.16148259>

CHAPTERS

Goodale, B. J., Rao, R., & Lares, E. (2024). The effects of a Spanish language house on L2 phonology: A longitudinal study of Spanish /bdg/. In Spanish as a second and third language: approaching the linguistics-didactics interface (pp. 91-118). Frank & Timme.

CREATIVE PRODUCTIONS

Propper, T. (2023, Autumn). Backward Land (poem). In Ekstasis Magazine.

Propper, T. (2024, Spring). Have faith in the boat (poem). Caldwell University.

Propper, T. (2024, Spring). "Pandemic." Impost: A Journal of Creative and Critical Work English Association of Pennsylvania State Universities.

Propper, T. (2024, January). Backbrace (poem). In Janus Unbound: Journal of Critical Studies. Memorial University of Newfoundland.

Propper, T. (2024, January). Nostalgia (poem). In Shiuli Magazine. Shiuli Magazine.

Ross, C. E. (2023, April). "Ready, Set, Go:Planning for College." In KVUT Radio, Ask Dr. Ross Podcast. College of Arts and Sciences, KVUT Radio.
<https://www.buzzsprout.com/2165537/12575448-ready-set-go-planning-for-college>

Ross, C. E. (2023, August). "Professors and Counselors Talk Belonging." In KVUT Radio, Ask Dr. Ross Podcast. UT Tyler College of Arts and Sciences, KVUT Radio.
<https://www.buzzsprout.com/2165537/13411456-professors-and-counselors-talk-belonging>

Ross, C. E. (2023, September). "How to Succeed in Online Classes." In KVUT Radio, Ask Dr. Ross Podcast. UT Tyler College of Arts and Sciences, KVUT Radio.
<https://www.buzzsprout.com/2165537/13584947-how-to-succeed-in-online-classes>

Ross, C. E. (2023, October). "Messages from the Front 2: Advice for College Students. In KVUT Radio, Ask Dr. Ross Podcast. UT Tyler College of Arts and Sciences, KVUT Radio.
<https://www.buzzsprout.com/2165537/13745989-messages-from-the-front-2-advice-for-college-students>

Ross, C. E. (2023, November). "Is Using AI in College Unethical?" In KVUT Radio, Ask Dr. Ross Podcast. UT Tyler College of Arts and Sciences.
<https://www.buzzsprout.com/2165537/13942271-is-using-ai-in-college-unethical>

Ross, C. E. (2024, April). "How to Have Hope in the Future Through Economics." In KVUT Radio, Ask Dr. Ross Podcast. UT Tyler College of Arts and Sciences, KVUT Radio.

Ross, C. E. (2024, June). "How to Have Hope by Studying Political Science." In KVUT Radio, Ask Dr. Ross Podcast. UT Tyler College of Arts and Sciences, KVUT Radio.

LITERATURE AND LANGUAGES

JOURNAL PUBLICATIONS

Brandt, M., Oh, J., & Bae, Y. L. (2024). First-Year Writing for STEM Students: Promoting Awareness Between Writing and Science. *Composition Studies*, 52(1), 103-116.

Kelly, M. (2023). Playing with Our Values: Using Digital Games to Undertake Ethical Examinations in the Classroom. *Acta Ludologica*, 6(2), 136-139.

Oh, J. (2024). The “Angry (Digital) Silver” in South Korea: The Rhetoric Around Older Adults’ Digital Media Literacy. *The Gerontologist*. 64(2).
<https://doi.org/10.1093/geront/gnad092>

Rowntree, M. (2023). The Noble Impermanence of Waystations. *Utopian Studies* 34(3), 570-580.
<https://muse.jhu.edu/article/917460>

Rowntree, M. (2024). (Dis)composed Dwelling: Writing Ruins of Disaster. A/b: *Autobiography Studies*, 1-20.
<https://doi.org/10.1080/08989575.2024.2330945>

Utley, G. J. (2023). Elements of Hauntology in Laura Restrepo’s *Delirio* and Juan Gabriel Vásquez’s *Los amantes de Todos los Santos*. *Confluencia*, 39(1), 29-43.

Wu, H., & Kelly, M. (2024). Professionalizing the English Major in the Information Age: A Case Study in Designing a Digital Minor. *MLA ADE Bulletin*, 160, 99-108.

OTHER

Beebe, A. (2024). American Poetry Podcast - A Verse Reaction with Dr. Beebe (9 episodes in Series 1).

Utley, G. J. (2024). Reviewed manuscript “Recordar con lo que queda: Voces y materialidades residuales en El ruido de las cosas al caer” for the *Bulletin of Hispanic Studies*. *The Bulletin of Hispanic Studies*.

PRESENTATIONS

Jessop, A. K., & Bluemel, K. (2023, October). “You Work Where?”: The Meaning of Research at Teaching Universities and Colleges. In *Modernist Studies Association Annual Convention*. MSA.

Jessop, A. K. (2024, May). “Modernity-Antiquity and the Case for Invention”. In *International Symposium Emerging Perspectives in H.D.’s Hellenic Modernity and the Future of New Modernist Studies*. Aristotle University of Thessaloniki.

Jessop, A. K., & Joseph, M. (2024, Winter). Robert Graves and The “60s: ‘All You Need is Love’? The Robert Graves Society.

Kelly, M. (2024, February). Fostering Digital Literacies Through Creative Composition. In *Association of Writers and Writing Programs*. Association of Writers and Writing Programs.

Kelly, M. (2024, March). Abundant Spaces: Exploring the Virtual and Material Arenas Informing Writing Curricula and Classrooms. In *Conference on College Composition and Communication*. College Composition and Communication.

Oh, J. (2024, January). The (Un)Mixable Practices in the English Literature Classroom: Close Reading and Making Numbers. In *Modern Language Association Annual Conference*. MLA.

MATHEMATICS

JOURNAL PUBLICATIONS

Anders, K., Altinok, S., Arreola, D., Asencio, L., Ireland, C., Sarioglan, S., & Smith, L. (2024). Generalized graph splines and the Universal Difference Property. *Discrete Mathematics*.

Graves, C., & Lauderdale, L. -k. (2024). Fixing numbers of graphs with summetric and generalized quaternion symmetry groups. *Graphs and Combinatorics*, 40, Article 14.
<https://doi.org/10.1007/s00373-023-02742-9>

PRESENTATIONS

Anders, K. (2023, October). Early results on which integers can be written as quotients of sums of distinct powers of three. In *Special Session on Experimental Mathematics in Number Theory and Combinatorics*. American Mathematical Society.

Anders, K. (2024, Spring). Non-standard binary representations and the Stern sequence. In *CombinaTexas Conference*. Texas A&M University.

Anders, K. (2024, May). Non-standard binary representations and the Stern sequence. In *Special Session in Celebration of Bruce Reznick’s Retirement*. American Mathematical Society.

PRESENTATIONS

Propper, T. (2024, February). Fostering Digital Literacies through Creative Composition. In *Association of Writers and Writing Programs (AWP)*. AWP.

Propper, T. (2024, April). Exploring the Virtual and Material Arenas Informing Writing Curricula and Classrooms. In *Conference on College Composition and Communication*.

Rowntree, M., & Brittain, M. (2024, March). AI Policy: Leading the Charge in Defining Acceptable Use of LLMs in the Writing Center. In *South Central Writing Center Association*.

Rowntree, M. (2024, April). Abundant Spaces: Exploring the Virtual and Material Arenas Informing Writing Curricula and Classrooms. In *Conference on College Composition and Communication*.

Strong, D. (2024). Lady MacBeth’s Virtue. In *Shakespeare Association of America Conference*. Shakespeare Association of America.

Utley, G. J. (2024, April). Trauma in the Narrative of María Luisa Bombal and Juan Rulfo. In *44th Cincinnati Conference on Arabic and Romance Languages*. University of Cincinnati.

REVIEWS

Ross, C. E. (2023). Review of Coleridge and the Geometric Idiom: Walking with Euclid by Ann Colley. 117-121. *The Coleridge Bulletin*.

MUSIC

PERFORMANCES

Gullings, K. (2024, February). Letting Myself In [Performance of selected movements 1, 2 & 5 from original composition]. Guest Artist Recital – Deborah Popham and ILonka Rus: University of Texas at Tyler.

Gullings, K. (2024, March). Dirge for the New Sunrise [Peer-reviewed performance of selected movements 3, 4 & 5 from original composition]. College Music Society South Central Regional Conference: University of Arkansas - Fort Smith.

Gullings, K. (2024, March). Gridiron Symphony [Commissioned premiere of original composition]. East Texas Symphony Orchestra and Tyler Legacy and Tyler High School marching bands: University of Texas at Tyler Cowan Center.

POSTERS

Emge, J., Roberts, S., and Gullings, K. (2023, October). "Changing the Teaching of Music to a Student-Centered Approach" [E-Poster]. College Music Society National Conference: Miami, FL.

PRESENTATIONS

Gullings, K., and Hamm, C. (2023, October). "Open Music Theory Volume 2: A Multi-Institutional Model for Developing Open Online Textbooks". College Music Society National Conference: Miami, FL.

Park, S. E. (2024, February). The Indianist Movement: Native American Melodies in Charles Wakefield Cadman's Songs. In The National Association of Teachers of Singing (NATS) International Region Conference.

POLITICAL SCIENCE

CHAPTERS

Wahlrab, A. (2023). Globalization. In The Encyclopedia of Political Sociology. Edward Elgar Publishing.
<https://doi.org/10.4337/9781803921235>

Wahlrab, A. (2024). Global Studies. In The Encyclopedia of Critical Political Science (pp. 152-156). Edward Elgar Publishing.
<https://doi.org/10.4337/9781800375918.ch25>

JOURNAL PUBLICATIONS

DiMaggio, A. R., Wahlrab, A., & Ochs, H. (2024). White Supremacy and the January 6 Insurrection: Mass Opinion and the Mainstreaming of "Great Replacement" Theory. *Populism*, 7, 99-126.
<https://doi.org/10.1163/25888072-bja10055>

PRESENTATIONS

Bock, G. L. (2023, October). Bonhoeffer's Ethics of Forgiveness. In *Concerned Philosophers for Peace*.

Bock, G. L. (2023, November). An Unforgiving God: Retributivism as a Divine Perfection. In *National Meeting of the Evangelical Philosophical Society*.

Bock, G. L. (2024, Spring). An Unforgiving God? Retributivism as a Divine Perfection. In *American Academy of Religion, Southwest Regional*.

Bock, G. L. (2024, Spring). An Unforgiving God? Retributivism as a Divine Perfection. In *Evangelical Philosophical Society, Southwest*.

Bock, G. L. (2024, Spring). Nietzsche and Forgiveness. In *Association of Practical and Professional Ethics*.



LeBlanc, J. R., & Medine, C. M. (2024, March). "The Power of the Powerless and the Disinherited: The Public in Sophocles's Antigone." In *Western Political Science Association Annual Meeting*. Western Political Science Association.

Stadelmann, M. A., & Carter, J. (2024, March). Right Populism in Europe-The Case of France. In *National Social Science Association Meeting*. National Social Science Association.

REVIEWS

Sterken Jr., R. E. (2024). Review of Amitav Acharya *Tragic Nation Burma: Why and How Democracy Failed*. 188. *Journal of American-East Asian Relations*, 31(4) 406-408.

SOCIAL SCIENCES

JOURNAL PUBLICATIONS

Appert, R., & Sills, E. C. (2024). Sourcing of Obsidian from the Late Postclassic Site of Placencia Village, Belize. *Mexicon*, 46(1) 13-20.

Bailey, D. J. S., Wooldridge, J. L., & Taulli, S. (2024). Campaigning for change: How state-level groups advocate for legislative sexual offense reform. *Journal of Qualitative Criminal Justice and Criminology*.
<https://doi.org/10.21428/88de04a1.2ad1315d>

Foster, C. M., McKillop, H., & Sills, E. C. (2023). Human-environment interactions at Ta'ab Nuk Na, a submerged Maya salt works site in Belize. *Ancient Mesoamerica*, 35(2), 388-400.
<https://doi.org/10.1017/S0956536123000196>

Foster, C. M., McKillop, H., & Sills, E. C. (2024). Using 3D technology in pottery analysis: excavations of Building J at the Ta'ab Nuk Na salt works, Belize. *Mexicon*, 46(3), 54-60.

Jones-Brown, D., Reck, P., Helfers, R. C., & Fradella, H. F. (2023). A commentary on qualified immunity in the aftermath of City of Tahlequah v. Bond. *Criminal Law Bulletin*, 59(5), 637-682.

Saygili, M., & Bayindir, E. E. (2024). Association of Medicaid Expansion with Birth Outcomes: Evidence from a Natural Experiment in Texas. *BMC Public Health*, 24.
<https://doi.org/10.1186/s12889-024-19007-6>

SOCIAL SCIENCES

OTHER

Maskaly, J., Helfers, R. C., Cavanuagh, M., & Reynolds, P. D. (2023). What does the future of policing require? Southwestern Association of Criminal Justice.

Sills, E. C., & McKillop, H. (2024). Symposium organizer and co-chair titled "Symposium: Underwater Maya: Analytical Approaches For Interpreting Ancient Maya Activities At The Paynes Creek Salt Works, Belize." Society for American Archaeology Meetings.

POSTER PRESENTATIONS

McKillop, H., & Sills, E. C. (2023, November). Identifying Transitions in Ancient Maya Labor Organization at the Paynes Creek Salt Works, Belize. In American Anthropological Association Annual Meetings. American Anthropological Association.

Sills, E. C., & McKillop, H. (2023, November). Identifying Transitions in Household Production of Salt from Chemical Signatures in Marine Sediment at the Paynes Creek Salt Works, Belize. In American Anthropological Association annual meeting. American Anthropological Association.

PRESENTATIONS

Andrews, K., Reynolds, P. D., & Helfers, R. C. (2024, Spring). Women in Policing. In Annual Meeting of the Academy of Criminal Justice Sciences. Academy of Criminal Justice Sciences.

Foster, C., McKillop, H., & Sills, E. C. (2024, April). Sea-Level Rise and Settlement at Ek Way Nal: Coring the Past. In Society for American Archaeology meetings. Society for American Archaeology.

Helfers, R. C., Scott, D. M., & Reynolds, P. D. (2023, Autumn). Common themes to improve police behavior: A qualitative assessment of citizens' views. In Southwestern Association of Criminal Justice. Southwestern Association of Criminal Justice.

Hurst, J., Fitzgerald, B., & Helfers, R. C. (2024, Spring). Racial Disparities in Sentencing Decisions. In Annual Meeting of the Academy of Criminal Justice Sciences. Academy of Criminal Justice Sciences.

McKillop, H., & Sills, E. C. (2024, April). Coastal Trade: The Ancient Maya of Belize. In Society for American Archaeology meetings. Society for American Archaeology.

SOCIAL SCIENCES

PRESENTATIONS

Reynolds, P. D., Helfers, R. C., & Nix, C. (2023, Autumn). A look at how religiosity influences criminal justice students' career aspirations and views of the police. In Southwestern Association of Criminal Justice. Southwestern Association of Criminal Justice.

Saygili, M., Gollu, G., & Tekin, Z. (2023, November). The Impact of the COVID-19 Pandemic on Diabetic Ketoacidosis Hospitalizations: Evidence from Texas. In Southern Economic Association (SEA) 93rd Annual Meeting. Southern Economic Association.

Saygili, M., Gollu, G., & Tekin, Z. (2024, April). The Impact of the COVID-19 Pandemic on Diabetic Ketoacidosis Hospitalizations: Evidence from Texas. In 5th East Texas Research Conference.

Scott, D. M., & Helfers, R. C. (2024, Spring). Examining the Recruiting and Retention Challenges of Peace Officers in Rural, Small Agencies in East Texas. In East Texas Research Conference 2024. UT Tyler Office of Research, Scholarship, and Sponsored Programs (ORSSP).

Sills, E. C., & McKillop, H. (2024, April). Using Sediment Chemistry to Define Ancient Activities. In Society for American Archaeology meetings. Society for American Archaeology.

Sills, E. C., & McKillop, H. (2024, June). Ancient Maya Activities Recorded in Waterlogged Sediments from The Paynes Creek Salt Works. In Belize Archaeology Symposium. Belize Institute of Archaeology.





The College of Education and Psychology applauds the research, scholarly, and creative activities of our faculty, students, and staff. Many of these activities involve collaborative efforts that transcend disciplinary boundaries and are responsive to the needs of the communities in which our members live as well as to the needs of the various communities of learners and scholars that we are a part of. Thus, our activities often innovate in response to specific needs.

Faculty, staff, and students in our college are organized into three operational units, the Department of Psychology and Counseling led by Interim Chair Dr. Sarah Sass, the School of Education led by Director Dr. Staci Zolkoski, and the University Academy (a K-12 charter school system with three campuses located in Longview, Palestine, and Tyler, respectively) led by Superintendent Dr. Jo Ann Simmons. Our college includes three academic disciplines—education, psychology, and counseling. We excel in teaching and offer four bachelor's, seven master's and two doctoral degrees, along with two certification programs. The college also hosts five centers and the University Academy offers STEM-focused K-12 education. In the spirit of the true 'teacher-scholar model', our teaching is informed and enhanced by our research, scholarly, and creative activities that are the focus of this publication.

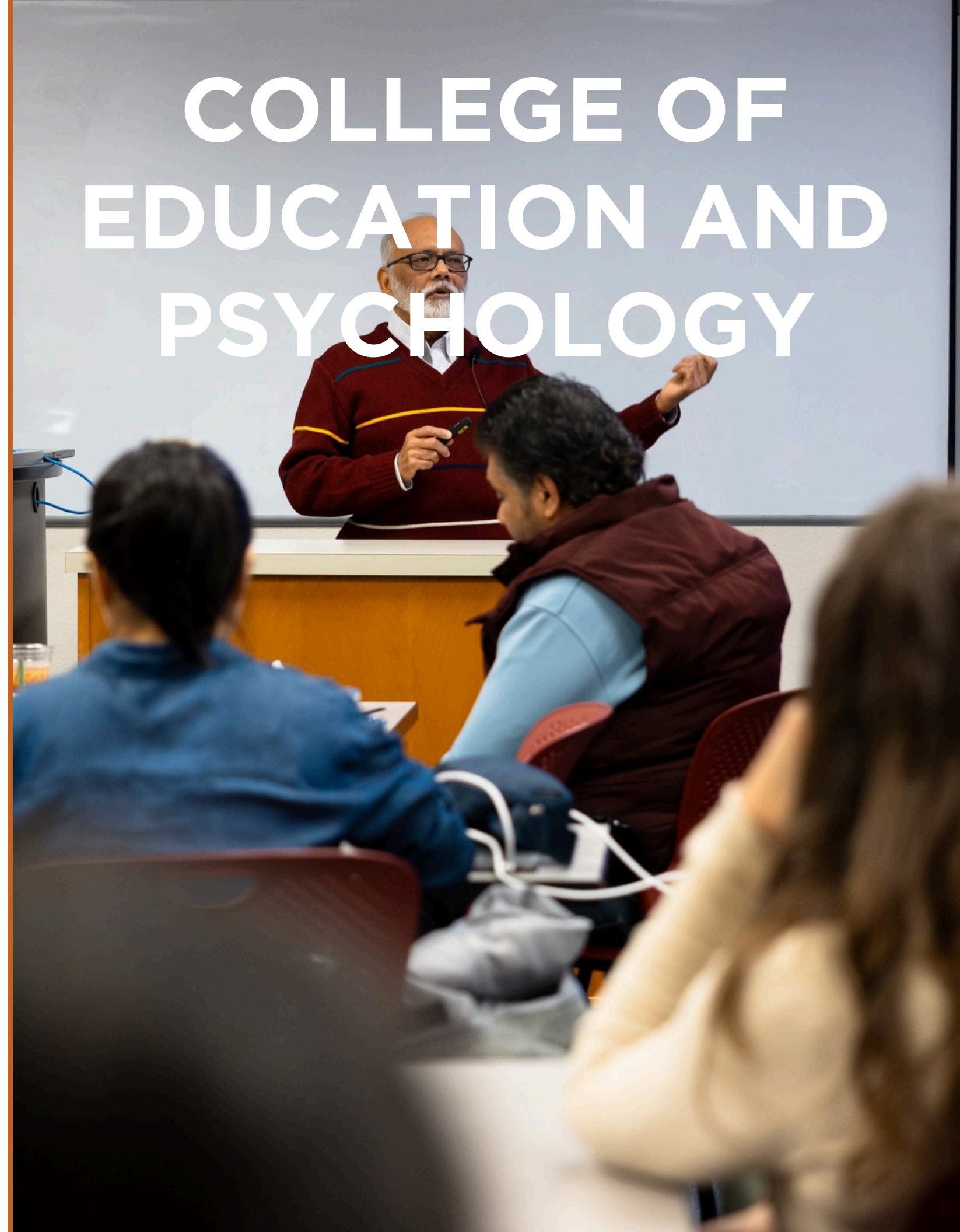
The purpose of this publication is to celebrate research, scholarly, and creative activities conducted during the past academic year. During the period being recognized, members of the College of Education and Psychology participated in several externally funded grant projects with funding from various national and regional foundations and organizations. During this period, we published and presented our work in a variety of venues consistent with the mission and vision of the College and University, and specific to our disciplines and fields of study. Some of the publication types include journal articles, book chapters, and books, while presentations include colloquia, conferences hosted by national and international research societies, and meetings of community groups, schools/school districts, mental health settings, and more.

I am very pleased with the continued research, scholarly, and creative endeavors of the members of our college and congratulate you all on your accomplishments during the past academic year that are featured in this magazine.

Pradeep 'Max' Dass, Ph.D.

Dean, College of Education and Psychology

COLLEGE OF EDUCATION AND PSYCHOLOGY



PSYCHOLOGY AND COUNSELING

CHAPTERS

Smedley, D. (2024). Sandy Says Good-Bi. In N. Smith (Ed.), *Queering connection: Narrative of healing in relational cultural therapy*. Cognella Academic Publishing.

JOURNAL PUBLICATIONS

Berkout, O., & Flynn, M. (2024). Social media utilization, fear of missing out, upward social comparison, and self-compassion as predictors of psychological distress and life satisfaction among individuals with mental health concerns. *Journal of Technology in Behavioral Science*.

<https://doi.org/10.1007/s41347-024-00411-z>

Elliott, K. S., Nabulsi, E., Sims-Rhodes, N., Dubre, V., Barena, E., Yuen, N., Morris, M., Sass, S. M., Kennedy, B., & Singh, K. (2024). Modality and terminology changes for behavioral health service delivery during COVID-19 Pandemic: A systematic review. *Frontiers in Psychiatry*, 14, 1-12.

<https://doi.org/10.3389/fpsy.2023.1265087>

Fagan, J. G., Henley, K., Punnoose, S., & McGuire, A. P. (2023). Can exposure to specific acts of compassion and courage elicit moral elevation and related motives. *Journal of Moral Education*, 1-13.

<https://doi.org/10.1080/03057240.2023.2284098>

Flynn, M., Berkout, O., & Alde, E. (2024). Suicidality, gender identity-related stressors, and psychological flexibility among transgender and non-binary adults. *Journal of Contextual Behavioral Science*, 32,

<https://doi.org/10.1016/j.jcbs.2024.100732>

Hayes, A. R., & Hickey, W. (2023). Helping Underrepresented Students Navigate STEM: Lessons for K-12 from Psychology. *Insight: Texas Association of School Administrators*, 38(2), 34-36.

Holm, J. M. (2023). Program evaluation of a community-engaged partnership with probation services. *CORE*, 15(1), 69-85.

<https://doi.org/10.1080/21501378.2023.2243293>

Kennedy, B., Sims-Rhodes, N., Avendano, J., Mathew, J., O'Brien, K., Chek, C., & Sass, S. M. (2024). Resilience, mindfulness, anxiety, and depression within a dual-continua model of mental health approach. *Journal of Happiness and Health*, 4, 11-18.

<https://doi.org/10.47602/johah.v4i1.54>

Kim, H., Molina, C. E., Watkinson, J. S., Leigh-Osroosh, K. T., & Li, D. (2024). Theory-informed school counseling: Increasing efficacy through prevention-focused practice and outcome research. *Journal of Counseling & Development*, 102, 226-238.

<https://doi.org/10.1002/jcad.12507>

Lindo, N. A., Li, D., Molina, C. E. E., Oller, M., Robinson, H., & Werts, R. (2023). Graduate students' perceptions of the career construction interview. *Counselor Education and Supervision*, 52(2), 334-347.

<https://doi.org/10.1080/03069885.2023.2288123>

Maitra, A., Combs, D., & Basso, M. R. (2023). The role of shame and traumatic stress in paranoia. *Annals of Psychiatry and Mental Health*, 11(2), 1185-1191.

<https://doi.org/10.47739/2374-0124.psychiatry.1185>

PSYCHOLOGY AND COUNSELING

JOURNAL PUBLICATIONS

McGuire, A. P., Erickson, T. M., & Nabulsi, E. (2024). Assessing interpersonal impact of veterans with posttraumatic stress disorder and moral injury: A case study of how significant others perceive veterans undergoing a positive psychology intervention. *Journal of Psychotherapy Integration*, 34(1), 88-101.

<https://doi.org/10.1037/int0000317>

Preston, O. C., Daruwala, S. E., Butterworth, S. E., Anestis, J. C., Green PhD, B. A., & Anestis, M. D. (2023). The grim side of narcissism: Examining pathological traits, depression symptomology, and suicidal ideation in at-risk populations. *International Journal of Cognitive Therapy*, 17, 93-121.

<https://doi.org/10.1007/s41811-023-00185-x>

Schiller, D., Yu, A. N. C., Alia-Klein, N., Becker, S., Cromwell, H. C., Dolcos, F., Eslinger, P. J., Frewen, P., Kemp, A. H., Pace-Schott, E. F., Raber, J., Sifton, R., Stefanova, E., Williams, J. H. G., Abe, N., Agahajani, M., Albrecht, F., Alexander, R., Anders, S., ... Lowe, L. (2024). The human affectome. *Neuroscience and Biobehavioral Reviews*, 158.

<https://doi.org/10.1016/j.neubiorev.2023.105450>

Smedley, D. (2024). The dueling ambitions of high achieving women: A family development pilot case study. *The Family Journal*, 32(3), 419-427.

<https://doi.org/10.1177/10664807241241817>

Tsai, C.-L., Wind, S., & Estrada, S. (2024). Exploring the effects of collapsing rating scale categories in polytomous item response theory analyses: An illustration and simulation study. *Measurement: Interdisciplinary Research and Perspectives*, 23(1), 66-89.

<https://doi.org/10.1080/15366367.2023.2288791>

Usset, T.J., Gray, E., Kondrath, S.R., McGuire, A.P., Molendijk, T., Hiltner, R., Bagioni Brandt, E.A., Golden, K.B., Smith, A.J. (2024). Expanding collaborative moral injury research: reflection on moral, contextual, social, and psychospiritual models. *Curr Treat Options Psych* 11, 177-187.

<https://doi.org/10.1007/s40501-024-00328-7>

Wang, A., Reyes, A., Urkmez, B., McGuire, A., Lee, B., & Umucu, E. (2024). The Association between PTSD, gratitude, academic adjustment, and dropout decisions in veteran students with disabilities: Brief report. *Journal of Veterans Studies*, 10(1), 40-47.

<https://doi.org/10.21061/jvs.v10i1.499>

POSTER PRESENTATIONS

Doucet, M., Emily, B., Jacob, H., Alma, B., & Berkout, O. (2024, April). Fear of missing out and distress: An examination of psychological flexibility as a potential moderator. Southwestern Psychological Association.

Gabelmann, J. M., McGuire, A. P., Bravo, A. J., Davies, R. L., & Kelley, M. L. (2024, Summer). Purpose in life moderates the moral injury and suicidality association among veterans. American Psychological Association 2024 Convention.

PSYCHOLOGY AND COUNSELING

POSTER PRESENTATIONS

Grad, R. I., & Thomas, C. (2023, September). Adverse Childhood Experiences, Multidimensional Perfectionism, and Stress in Young Adults: A Person-Centered Perspective. AARC National Conference.

Li, C., & Sunal, Z. (2023, September). A scoping review of supervision measures: How were they created and validated. The Association for Assessment and Research in Counseling Conference.

Martinez, E., & Estrada, S. (2024, Spring). Analysis of mental health and depression in caregivers: Findings from the 2021 Texas behavioral risk factor surveillance system survey. Louisiana State University Regional Student Scholar Forum.

Martinez, E., Nair, M., Barena, E., & Berkout, O. (2024, April). Exploring the relationship between loneliness, stigma, psychological flexibility, and psychological distress. East Texas Research Conference.

Sease, T., Criddle, J., Barena, E., & Berkout, O. (2024, April). Digital ACT for maladaptive eating and weight concerns: A systematic review and components analysis. Southwestern Psychological Association.

PRESENTATIONS

Barena, E., Brewer, J., Boone, L., Sims-Rhodes, N., Cornwell, H., Elliott, K. S., Yuen, N., Tiruneh, Y., Miller, A., Sass, S. M., & Singh, K. (2024, April). Breaking down barriers: Exploring challenges in accessing mental healthcare in northeast Texas. East Texas Research Conference. UT Tyler.

Combs, D. (2024, Spring). Self-esteem and paranoia- what's the link? Southwestern Psychological Association, SWPA.

Culclasure, B., Stocks, E. L., & Odell, M. R. L. (2023, Autumn). An analysis of school district adoption of k-12 engineering curriculum. ASEE Annual Conference.

Estrada, S., Tsai, C.-L., Martinez, E., Thomsen, L., & Owusu, G. (2024, February). What statistical terms are highly interconnected for college students? A Social Network Analysis Approach. Southwestern Educational Research Association (SERA).

Grad, R. I. (2023, December). Trauma-informed care. An American model. ACROM International Conference. ACROM.

Hayes, A. R. (2024, April). Decoding adolescence: Parenting and development during the teen years. Harmony and Health Education Grant. University of Texas MD Anderson Cancer Center.

Holm, J. M. (2023, Autumn). Youth substance use epidemic: Risk and protective factors. Mental Health Matters Annual Conference.

Molina, C. E. (2023, October). Empowering school nurses: Strategies for student well-being. Keynote Speaker at School Nurse Simulation Bootcamp: Best Practices for PK-12 Agenda.

Neuer Colburn, A., Bell, T., Toscano, M. E., Kemer, G., Li, C., & Sunal, Z. (2023, October). Supervision experiences and strategies affirming LGBTQEQIAP+ identified persons. Association for Counselor Education and Supervision Conference.

PSYCHOLOGY AND COUNSELING

PRESENTATIONS

O'Brien, K., Mathew, J., Kennedy, B., Ihionkhan, P., Avendano, J., Coleman, J., Guo, K., Sims-Rhodes, N., Boynton, H., Brooks, J., Kiser, K., Hulsman, E., Lopez, C., Curry, S., Hicks, C., Boone, L., Weeks, S., & Sass, S. M. (2023, September). An event-related potential examination of the emotion attention blink task. Society for Psychophysiological Research annual meeting. Society for Psychophysiological Research.

Parashar, N., Kellermann Jimenez, A., Green PhD, B. A., & Arnau, R. C. (2024, March). Personality disorders, attachment, and social cognition. Society for Personality Assessment Annual Conference.

Placeres, V., & Grad, R. I. (2023, October). Let's get creative with career: How to incorporate experiential activities into your career counseling course. Association for Counselor Education and Supervision.

Smedley, D., Horton, E., Bradley, L., & Hendricks, B. (2023, October). Revisioning lifespan and career development for high-achieving women: Closing the gaps in the CES curriculum. Association for Counselor Education and Supervision.

Smedley, D., & Smith, N. (2023, October). I'm open to it: Queering intimate & sexual partnerships. Society for Sexual, Affectional, Intersex, and Gender Expansive Identities Virtual Conference.

Smedley, D., & Smith, N. (2023, October). Watching them walk the tightrope: Anti-LGBTQIA youth legislation, counseling supervision, and ethics. Association for Counselor Education and Supervision.

Smedley, D. (2023, November). Another glass ceiling shattered: A multisystemic relational approach to lifespan development. Texas Counseling Association: 67th Annual Professional Growth Conference.

Smedley, D. (2024, Spring). Moving past the basics: How to design and teach a contemporary family counseling course. Texas Association for Counselor Education and Supervision Midwinter Conference.

Smedley, D., Li, C., & Lin, Y. (2024, Spring). The TRAINing technique: A relational cultural supervision method to nurturing CITs skill development. Texas Association for Counselor Education and Supervision Midwinter Conference.

Stocks, E. L., & Hicks, C. (2024, Spring). Key Features of the Expression of Empathic Concern. Southwestern Psychological Association.

GRANTS

Estrada, S., Tsai, C. (Co-PI), Barena, E. (Other), Thomsen, L. (Other). Current Statistics Self-Efficacy: A Reliability Generalization Study, Psi Chi Honor Society in Psychology, (October 1, 2023), USD \$2,000.

EDUCATION

BOOKS

Cormier, D. R., Mette, I. M., & Oliveras, Y. (2023). Making a difference: Instructional leadership that drives self-reflection and values the expertise of teachers. Rowman & Littlefield.

Cormier, D. R., Mette, I. M., & Oliveras, Y. (Eds.). (2024). Culturally responsive instructional supervision: Leadership for equitable and emancipatory outcomes. Teachers College Press.
<https://www.tcpres.com/culturally-responsive-instructional-supervision-9780807769485>

Delello, J. A., & McWhorter, R. R. (2024). Disruptive technologies in education and workforce development. IGI Global.
<https://doi.org/10.4018/979-8-3693-3003-6>

Dykes, F., Rueter, J., & Zolkoski, S. M. (2024). Everyday assessment for special education and inclusive classroom teachers: A case study approach. Routledge Publishing.

Hickey, W., Oliveras, Y., & Kaiser, F. J. (2023). The distinguished Texas teacher: Strategies for making a difference in the classroom (2nd ed.). Kendall Hunt.



CHAPTERS

Bailey, J., Miller, G. J., & Kaiser, F. J. (2023). Reframing systems to thrive: Teacher shortages in post-pandemic schools. In E. Azukas & M. Kim (Eds.), Reimagining systems thinking in a post-pandemic world (pp. 262-277). IGI Global.

Bailey Watters, J., & Robert, C. (2024). Revisiting improving campus culture through/with strategic planning and efficient operations. In G. Miller & N. Templeton (Eds.), Texas public school organization and administration, 19th edition (pp. 407-424). Kendall Hunt Publishing Company.

Bailey, J., Garner, C., & McCray, T. (2024). Bel Kaufman. In B.A. Geier (Eds.), The Palgrave Handbook of Educational Thinkers (pp. 867-877). Palgrave McMillan.
https://doi.org/10.1007/978-3-031-25134-4_95

Bretl, B., & Sung, W. (2024). Advocating for media literacy in the curriculum. In C. Wright, L.A. Ey, K.M. Hopper, & W. Warburton (Eds.), The importance of media literacy: Getting the most from the digital world (pp. 79-87). Cambridge Scholars Publishing.

Buchanan, M., Bailey Watters, J., Allen-Sanchez, K., & Perry, D. (2024). Changing the terms of our lease: Positionality, identity and renegotiating space. In A.G. Raj & S. Orozco (Eds.), Storying leadership for equity, diversity, and inclusion: Power dynamics and qualitative research for resistance, resilience, adversity, and authenticity (pp.181-196). Routledge.

EDUCATION

CHAPTERS

Cormier, D., Mette, I., & Oliveras-Ortiz, Y. (2024). A primer for culturally responsive instructional supervision. In Culturally Responsive Instructional Supervision Leadership for Equitable and Emancipatory Outcomes (pp. 11-30). Teacher College Press.

Delello, J. A. (2023). Dialectical behavior therapy: Emotions and the environment. In T. De Giuseppe (Ed.), Flipped inclusion and borderline personality disorder: Between empowerment, assertive awareness, and pedagogical care (pp. 101-109). Edizioni il Papavero.

Delello, J. A. (2024). Foreword. In F. Corona & T. De Giuseppe (Eds.), Flipped inclusion. Computational thinking and phenomenologies in the knowledge society. Il Papavero.

Delello, J., Bailey Watters, J., & Garcia Lopez, A. (2024). Artificial intelligence in education: Transforming learning and teaching. In J. A. Delello & R.R. McWhorter (Eds.), Disruptive technologies in education and workforce development (pp. 1-26). IGI Global.

Kennedy, T. J., & Odell, M. R. L. (2023). STEM Education as a Meta-discipline. In B. Akpan, B. Cavas, & T. Kennedy (Eds.), Contemporary issues in science and technology education (pp 37-51). Springer.

Kennedy, T. J. (2024). Advancing ocean sustainability for climate-resilient change. In L. Hufnagel (Ed.), Globalization and sustainability: Ecological, social and cultural perspectives. IntechOpen. DOI: [10.5772/intechopen.1005309](https://doi.org/10.5772/intechopen.1005309)

Mette, I., Cormier, D., & Oliveras-Ortiz, Y. (2024). On Delivering Equitable Outcomes Through Instructional Supervision. In Culturally Responsive Instructional Supervision Leadership for Equitable and Emancipatory Outcomes (pp 1-10). Teacher College Press.

Mette, I., Cormier, D., & Oliveras, Y. (2024). Using cultural knowledge to develop structures and systems that lead to equitable and emancipatory outcomes. In Culturally Responsive Instructional Supervision Leadership for Equitable and Emancipatory Outcomes (pp 112-123). Teacher College Press.

Odell, M. R. L., Kennedy, T. J., Morris, D., & Simmons, J. (2024). The University of Texas at Tyler University Academies: A P-16 research-based laboratory model to develop a sustainable STEM pipeline. In M. Odell & T.J. Kennedy (Eds.), The how and why of laboratory schools: Innovations and success stories in teacher preparation and student learning. Myers Education Press.

JOURNAL PUBLICATIONS

Bailey, J., Kaiser, F. J., Rhone, R., & Atchley, S. (2023). Working across boundaries: School leaders redefining communities of practice through twitter. NASSP Bulletin, 107(3), 270-286.
<https://doi.org/10.1177/01926365231198523>

EDUCATION

JOURNAL PUBLICATIONS

Barker, K. S., Doepker, G. M., Faulconer, J. L., Green, L. D., Jacobs, L. E., & Smith, J. (2023). Banish the bans: The teacher educators' role in promoting book access and choice. *Study and Scrutiny: Research on Young Adult Literature*, 6(1), 77-86. DOI: <https://doi.org/10.15763/issn.2376-5275.2023.6.1.77-86>

Bretl, B. (2024). Social, Cultural, and Psychological Obstacles to Advancing STEM Agendas in Rural Texas. *Critical Proceedings of the STEM ED Conference* (2023), 1. <https://doi.org/10.51734/NGFL1339>

Consalvo, A., & Rueter, J. (2023). Supporting graduate students' writing in online courses. *Journal of College Reading and Learning*, 54(1), 14-31. <https://doi.org/10.1080/10790195.2023.2275051>

Consalvo, A., Doepker, G. M., Neel, J. L., Whittington, A., & Dubre, V. (2024). The Chocolate War 2.9: Archival exhibit as OER and companion text in the English classroom. *Oregon English Journal*, XLVI, 24-33.

Delello, J. A., Sung, W., Mokhtari, K., & De Giuseppe, T. (2023). Exploring college students' awareness of AI and ChatGPT: Unveiling perceived benefits and risks. *Journal of Inclusive Methodology and Technology in Learning and Teaching*, 3 (4), 1-25. <https://doi.org/10.32043/jimtl.v3i4.132>

Dobbs, C., Consalvo, A., Covino, K., David, A., Emeran, C., & Mason, P. (2024). "Lots of ways to be brave": A teacher's guide to facing censorship challenges. *English Journal*, 113(3), 22-28. <https://doi.org/10.58680/ej2024113322>

McWhorter, R. R., Johnson, G. D., Delello, J. A., Young, M., & Carpenter, R. E. (2024). We have talent: Mock group interviewing improves employer perceived competence on hireability. *Journal of Education for Business*, 99(5), 345-351. <https://doi.org/10.1080/08832323.2024.2366782>

Morris, D. (2024). Reflections of a first-year chemistry teacher: Intersecting PCK, responsiveness, and inquiry instruction. *Education Sciences*, 14(1), 93. <https://doi.org/10.3390/educsci14010093>

Oliveras, Y. (2023). Practices to enhance school leaders' ability to engage in instructional coaching. *Insight*, 38 (3), pp. 29-31. https://issuu.com/tasanet/docs/insight-fall-2023?fr=xKAE9_zU1NQ

Proffer, L., Vechione, M. M., Souliman, M., Oliveras, Y., & Hickey, W. (2024). CM13 Corozal metric for intersection improvement and implementation: A tool to improve vulnerable road user safety in a developing country. *Journal of Belizean Research*, 2(1), 1-19. <https://jobr.ub.edu.bz/index.php/ubrij/article/view/28/23>

Saunders, S., Martinez, K., & Hickey, W. D. (2023). Crisis migration to online methods of instruction among tertiary institutions in Belize during the COVID-19 pandemic: Higher education administrator's lens. *Technology Journal*, 12(1), 235-259.

EDUCATION

JOURNAL PUBLICATIONS

Song, K., Consalvo, A., David, A. D., Stefanski, A. J., & Hitchens, C. W. (2023). Multiple pathways to perspectival learning: Children's literature in preservice teacher education. *Journal of Language and Literacy Education*, 19(2), 1-19. <https://files.eric.ed.gov/fulltext/EJ1411811.pdf>

Sung, W., An, H., & Thomas, C. L. (2024). PICRAT Analysis of Technology-Integration Activities in U.S. K-12 Public Schools. *Computers in the Schools*, 1-24. <https://doi.org/10.1080/07380569.2024.2338243>

Tao, J., Kennedy, T. J., He, Z., & Li, B. (2024). Linguistic distance and language anxiety between Spanish and Chinese English language learners in the classroom. *US-China Foreign Language*, 22(6), 314-328. <https://doi.org/10.17265/1539-8080/2024.06.003>

Thomas, C. L., & Ozer, O. (2024). A cross-cultural latent profile analysis of university students' test anxiety. *Psychology in the Schools*, 61(6), 2668-2693. <https://doi.org/10.1002/pits.23186>

OTHER

Doepker, G. M. (2023). ILA National Recognition Award Self-Study #2. International Literacy Association.

Doepker, G. M. (2023). ILA National Recognition Award Self-Study #2 Revisions. International Literacy Association.

Dykes, F., & Rueter, J. (2024). Addressing the needs of students with learning challenges. San Pedro High School and San Pedro Junior College, San Pedro, Belize.

Kennedy, T. J., & Sandborn, D. E. (2024). Isotopic composition on Nitrate and Water. GO-SHIP A13.5 Research Report, NOAA PMEL.

Oliveras-Ortiz, Y., Lane, J., & Hickey, W. (2023). Instructional Supervisors' Self Efficacy Scale. Belize Ministry of Education, Culture, Science, and Technology.

Oliveras, Y., Bouillion, D., & Koprowski, S. (2023). Social emotional learning practices and learning spaces. Research Report Commissioned by VLK Architects.

Oliveras-Ortiz, Y., Bouillion, D., & Koprowski, S. (2024). Collaboration Spaces and Middle School Students' Engagement in Learning. Research Report Commissioned by VLK Architects.

Oliveras, Y. (2024). Program Content Review: Stann Creek Ecumenical Junior College's School Leadership Certification Program. Belize Ministry of Education, Culture, Science, and Technology.

Oliveras, Y. (2024). Program Development: Instructional Coaching for Aspiring Field Supervisors and Educational Leaders. Belize Ministry of Education, Culture, Science, and Technology.

Oliveras, Y. (2024). Revisiting Participants of the i-SEE Belize Project: a Teacher Induction Pilot Program: Recommendations for Future Induction Program. Belize Ministry of Education, Culture, Science, and Technology.

Oliveras, Y. (2024). Training of Trainers: Pre-Service Teachers Supervision. Belize Ministry of Education, Culture, Science, and Technology.

EDUCATION

OTHER

Oliveras, Y. (2024). The Unintentional Consequences of “Supervision” and “Supervisor.” Snapshots of Instructional Supervision: Reflections of Scholars in the Field.

POSTER PRESENTATIONS

Erickson, Z., Anderson, J., Kennedy, T. J., Dina, V., Lynne, T., Elaine, M., & Barbero, L. (2024, April). Addressing ocean decade challenges through repeat hydrography. UNESCO Ocean Decade Conference.

Kennedy, T. J., Cavas, B., & Acik Cinar, S. (2024, April). Navigating ocean literacy: A global perspective from the ICASE network. UNESCO Ocean Decade Conference.

Oliveras, Y., Garbutt Franklin, J., Hickey, W., Lane, J., Thomas, C. L., & Vairez Jr, M. R. (2024, Summer). Belize instructional coaching: Efficacy and training for teacher educators. In 65th World Assembly International Council on Education for Teaching. International Council on Education for Teaching.

PRESENTATIONS

Bailey Watters, J., & Buchanan, M. (2023, November). Looking back and looking ahead: Naming, reflection, and action. Research Development Program Symposium. UCEA and AERA LSI SIG.

Bailey Watters, J., & Buchanan, M. (2023, November). Responsive leadership through transition: Teacher mental/emotional supports. University Council for Educational Administration (UCEA) Annual Convention. UCEA.

Bailey Watters, J., Morrison, S., & Stout, J. (2024, Summer). School leadership learning through simulation: An exploration of asynchronous engagement. International Council of Professors of Educational Leadership (ICPEL) 2024 Conference. ICPEL.

Bretl, B. (2023, October). Assessing implicit gender biases in moral judgments via neurolinguistic word order paradigms. International Moral Psychology Seminar Series.

Buchanan, M., & Bailey Watters, J. (2023, November). Situating space for radical care: Examining intersectionality within leadership identity. University Council for Educational Administration (UCEA) Annual Convention. UCEA.

Buchanan, R., Lynch, M., & Oliveras, Y. (2024, Spring). A panel at the joint meeting of COPIS and AERA SIG: Supervision and instructional leadership. American Educational Research Association Annual Meeting. AERA.

Cantu, D., Miller, G. J., & Taylor, J. (2024, June). Texas program improvement network. TEPSA Summer Conference 2024. Texas Elementary Principals and Supervisors Association (TEPSA).

Consalvo, A., & McGinnis, M. (2023, November). Dreaming together: What texts do we want to teach and how can we be hopeful in the face of censorship. National Council of Teachers of English. NCTE Standing Committee Against Censorship.

EDUCATION

PRESENTATIONS

Consalvo, A., & David, A. D. (2023, December). Invited presentation of issues of censorship to study group: Children’s and young adult literature. In Literacy Research Association Annual Conference, Atlanta. Literacy Research Association.

Covino, K., Consalvo, A., & Chase, N. (2023, November). Using healing discourses of caring to interrogate themes of toxic masculinity in literature. North Eastern Philosophy of Education Society Conference. NEPES.

David, A. D., Consalvo, A., Song, K., & Shelton, E. (2023, November). Always wicked: Learning to write and teaching writing from elementary grades through college. National Council of Teachers of English Annual Conference. National Council of Teachers of English.

Delello, J. A., Sung, W., & Mokhtari, K. (2024, April). Are k-16 educators prepared to address the educational and ethical ramifications of artificial intelligence software? Future of Information and Communication Conference (FICC). <https://saiconference.com/FICC>

Doepker, G. M., Pletcher, B., Morewood, A., Durham, P., & Raymond, R. (2023, Autumn). Specialized literacy professionals: Manuscript discussion “two sides of the same coin: Helping literacy professionals find peace in the midst of a reading war”. Association of Literacy Educators & Researchers (ALER).

Dykes, F., Rueter, J., & Gilpin, P. (2023, Autumn). Seas the day! Using video modeling to teach formal assessment asynchronously. Teacher Education Division Conference. Council for Exceptional Children.

Gunpinar, Y., Asempapa, R. S., & Sturgill, D. J. (2023, October). Examining preservice teachers’ mathematical problem-solving conceptualization and performance. School Science and Mathematics Association Annual Convention.

Gunpinar, Y., Eddy, C., & Venette, R. (2024, April). The perspective of race in one education program by teachers of color and white teachers. American Educational Research Association (AERA).

Hazi, H., & Oliveras, Y. (Eds.). (2024, Spring). A snapshot in time: Observations about the field of instructional supervision (Facilitator). American Educational Research Association Annual Meeting. AERA.

Kaiser, F. J. (2023, November). Beyond the exit interview: A content analysis of how teachers navigate quitting on TikTok. UCEA Convention. University Council for Educational Administration.

Kaiser, F. J. (2024, February). Project based learning in online programs. TCPEA Spring Webinar Series. Texas Council of Professors of Educational Administration.

Kaiser, F. J. (2024, March). Crucial conversations for organizational improvement. Jasper Leadership Academy. Jasper Ventures.

EDUCATION

PRESENTATIONS

Kaiser, F. J. (2024, April). Why did you leave? a content analysis of comments to former teachers on TikTok. East Texas Research Conference. The University of Texas at Tyler

Kaiser, F. J. (2024, June). Using project-based learning in online programs. University of Belize Faculty Development. University of Belize, Belmopan Central Campus.

Kennedy, T. J. (2023, October). Student solutions in response to the pandemic: The COVID-19 engineering design challenge. 10th Annual International Seminar on Trends in Science and Science Education. Faculty of Mathematics and Natural Sciences, Universitas Negeri, Medan.

Kennedy, T. J., Mascarenhas, T., Rivera, V. S., Salazar, E. R., & Stills, R. (2024, April). First-hand experience of the ocean decade: Example collaborations. UNESCO Ocean Decade Conference. Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization (UNESCO).

Kennedy, T. J. (2024, April). UNESCO Ocean Decade GO-SHIP Evolve: Decadal research in the southern Atlantic Ocean. GLOBE Southwest Student Research Symposium. The GLOBE Program.

Lynn, T., Rueter, J., Farnan, S., & Moore, A. (2023, Autumn). Flourishing with your fleet on rough seas: The collaborative writing team approach. Teacher Education Division Conference. Council for Exceptional Children.

Mette, I., Cormier, D., & Oliveras, Y. (2023, October). Culturally responsive instructional supervision: A new and inclusive framework for liberating supervision practices. Council of Professors of Instructional Supervision Fall 2023 Conference. Council of Professors of Instructional Supervision.

Mette, I., Cormier, D. R., & Oliveras Ortiz, Y. (2023, Autumn). Culturally responsive instructional supervision: An instructional leadership framework for equitable and emancipatory outcomes. University Council for Educational Administration Convention Annual Convention. University Council for Educational Administration.

Mette, I., Cormier, D., & Oliveras, Y. (2024, Spring). Presidential Session - culturally responsive instructional leadership: Disrupting traditional paradigms by centering race to construct new futures in p-20 education. American Educational Research Association Annual Meeting. AERA.

Miller, G. J. (2023, November). Texas principal leadership academy. Texas Principal Leadership Academy 2023. The University of Texas - Austin, Department of Educational Leadership.

Morris, D. (2024, Spring). Framework development: The process. Baylor University Graduate Students: Teaching for Understanding. Baylor University.

Morris, D. (2024, February). Supporting students in developing and using models in science and STEM classrooms. Texas STEM Conference.

EDUCATION

PRESENTATIONS

Odell, M. R. L., & Kennedy, T. J. (2023, November). Texas and Argentina: GLOBE climate exchange program. GLOBE North American Regional Meeting.

Odell, M. R. L., & Kennedy, T. J. (2024, January). Leveraging global climate education networks to improve climate literacy outcomes. International Congress for School Effectiveness and Improvement. ICSEI.

Odell, M. R. L., & Kennedy, T. J. (2024, April). Laboratory Schools as a research platform. International Associations of Laboratory Schools (IALS) Annual Conference. International Associations of Laboratory Schools.

Oliveras-Ortiz, Y., Lane, J., & Thomas, C. L. (2023, October). Instructional supervisors' self-efficacy. Council of Professors of Instructional Supervision Fall 2023 Conference. Council of Professors of Instructional Supervision.

Oliveras, Y., Hickey, W., & Garbutt, J. (2023, Autumn). Instructional supervision for educational excellence in Belize: Enhancing teacher education and preparation. 19th Annual CANQATE Conference. Caribbean Area Network for Quality Assurance in Tertiary Education.

Oliveras, Y. (2024, June). Competency-based education at the junior college. Faculty Summer Professional Development. Belize Adventist Junior College.

Oliveras, Y. (2024, June). Training of trainers: Instructional coaching teacher interns. Teacher Educators Summer Professional Development. Belize Ministry of Education, Culture, Science, and Technology, Teacher Education Unit.

Olsen, A., Bailey Watters, J., & Hernandez, T. (2024, April). Investigating the moderation effect between teacher autonomy and teacher race/ethnicity on job satisfaction: Results from the schools and staffing survey. AERA 2024 Annual Meeting. American Educational Research Association.

Neel, J. L. (2023). Building Positive Parent Rapport. The Texas Conference Preschool Teachers Workshop- United Methodist Church. <https://www.methodistptc.com/schedule/>

Neel, J. L. (2023). Designing literate space for young learners on a budget. The Texas Conference Preschool Teachers Workshop. United Methodist Church.

Neel, J. L. (2023). Establishing routines and procedures for young children. The Texas Conference Preschool Teachers Workshop. United Methodist Church.

Rueter, J. (2024, Spring). Instrument selection for the evaluation of children with specific learning disabilities: Does it really matter? Council for Exceptional Children. Council for Educational Diagnostic Services.

EDUCATION

PROCEEDINGS PUBLICATIONS

Delello, J., Sung, W., Mokhtari, K., & De, G., Tonia. (2024). Are k-16 educators prepared to address the educational and ethical ramifications of artificial intelligence software? 406-432. https://doi.org/10.1007/978-3-031-54053-0_28

Lynn, T. G., Rueter, J., Farnan, S., & Moore, A. (2023). Flourishing with your fleet on rough seas: The collaborative writing team approach. Teacher Education Division Conference, 81-85.

REVIEWS

Doepker, G. M. (2024). Review of Miss Lady Bird’s wildflowers: How a first lady changed America. 54-55. The Social Studies Texan.

Doepker, G. M. (2024). Book Review of Remember: The journey to school integration 63-64. The Social Studies Texan.

GRANTS

Kennedy, T. Odell, M. (Co-PI), Dyer, K. (Co-Investigator), Prieto, A. (Co-Investigator), Ramos, S. (Co-Investigator). The Collaborative to Develop Climate Education Capacity, Partners of the Americas Foundation, (January 1, 2024), USD \$ 47,131.06.

Kennedy, T. Collaborative Research: US GO-SHIP 2021-2026 Repeat Hydrography, Carbon and Tracers, University of California, San Diego, (January 18, 2024), USD \$ 10,711.
Mokhtari, K. The Parent Powered Literacy Project: A Family Literacy Project, Chapel Hill ISD, (August 1, 2024), USD \$ 7,500.

Swain, C. Equitable Student Pathways Project Phase 2: Pair Cohort, University of Texas System Lumina Foundation Grant, (February 1, 2024), USD \$ 47,000.





Engineering and construction management are transformative disciplines that leverage creativity, critical thinking, and applied math and science to synthesize innovative solutions to complex problems and grand challenges. The scholarly accomplishments of the faculty and students have helped elevate the College's national profile. This year, US News & World Report ranked the College of Engineering 62nd in the nation amongst institutions that do not offer a doctorate in engineering. This marks the sixth year in a row that the College is ranked in the top 100. The total new awards funded during the 2024 fiscal year exceeded three million dollars, and the annual research expenditures approached two million. The faculty of the College of Engineering submitted over a half dozen patent disclosures in the past year alone. The following are just a few of our faculty's scholarly accomplishments over the past year.

In the past year, the Department of Civil and Construction Engineering and Management has achieved remarkable scholarly milestones, showcasing the dedication and expertise of its faculty. Dr. Hua Yu was recognized as an International Professional Engineer through Engineering New Zealand. He co-authored several articles on innovative uses of coal-derived char in sustainable construction materials and is a co-inventor on four international patents. Dr. Mayzan Isied received the Outstanding Faculty Mentor Award at the Lyceum Research Showcase and, along with Dr. Mena Souliman, contributed to pavement engineering research presented at major conferences. The department secured substantial research funding, including USDA renewal for sugarcane bagasse in asphalt mixtures and a \$600,000 TxDOT project to improve highway safety through enhanced skid resistance measurements. These accomplishments enhance the department's reputation and contribute significantly to civil and construction engineering.

This year, the Jasper Department of Chemical Engineering has made significant strides in research and scholarship. Dr. Fernando Resende and Dr. Zishu Cao have been awarded substantial research grants for their innovative projects in biofuels and catalysis. Notably, their project on converting gin trash into liquid fuels and high-value chemicals received \$246,370 from the USDA-ARS, while their work on upgrading lignin-derived phenolics into fuels was funded with \$89,568 by the South Central Sun Grant. These projects have led to several publications in peer-reviewed journals and presentations at major conferences. Additionally, Dr. Carla Lacerda, as part of a team that includes Dr. Shawana Tabassum (from the Department of Electrical and Computer Engineering) and Drs. Tahsin Khajah, Shih-Feng Chou, and Alwathiqbellah Ibrahim from the Department of Mechanical Engineering secured an \$828,570 NSF grant to acquire micro/nanofabrication tools, further enhancing the department's research capabilities.

COLLEGE OF ENGINEERING

In the Department of Mechanical Engineering, Dr. Mohammad Biswas received a grant for the HSI Pilot Project: Community College and University STEM Partnerships (CCUSP), totaling \$281,186.00, with UT Tyler's share being \$118,000. Additionally, Dr. Biswas was awarded the 3rd Place prize of \$20,000 in the Collegiate Track of the American-Made Community Energy Innovation Prize. Dr. Biswas also published a journal article, "Modeling of Dry Reforming of Methane Using Artificial Neural Networks," in Hydrogen 2024 and presented a conference paper at the 2024 ASEE Annual Conference & Exposition. Dr. Andrew Robbins received the Rising STARS award of \$150,000 and published two journal articles, one in the Journal of Biomechanics and another in MethodsX Journal. Dr. Chou published two articles in Polymers and AIMS Materials Science, while Dr. Khajah received an NIH R-15 award totaling \$481,440 and filed for his second provisional patent.

The Department of Electrical and Computer Engineering had another stellar year of remarkable accomplishments, showcasing the dedication and excellence of its faculty and students. Dr. Shawana Tabassum received approximately \$1.25 million in grants from prestigious organizations such as the National Science Foundation, NASA, the UT System, and the Southwest Center for Agricultural Health, Injury Prevention, and Education. The department's commitment to research is further evidenced by publications in high-impact journals, including Sensing and Bio-Sensing Research and Scientific Reports. Additionally, the department filed three provisional patent applications, two of which were in collaboration with the USDA-Agricultural Research Service. Dr. Tabassum was elevated to IEEE Senior Member status and inducted as an IEEE Eta Kappa Nu (HKN) Professional Member while receiving the College of Engineering's Research Excellence Award. The department's graduate students have also excelled, winning multiple awards, such as the Best Poster Award at the 2025 IEEE DCAS Conference and top places at the Big Idea Pitch Competition and the Business Model Canvas Competition in Health & Life Sciences.

These achievements highlight the College's ongoing commitment to advancing research, fostering innovation, and supporting student success.

Javier A. Kypuros, Ph.D.

Dean, College of Engineering

Ronald D. Brazzel Endowed Professor of Engineering

Professor of Mechanical Engineering

CHEMICAL ENGINEERING

JOURNAL PUBLICATIONS

Dadmand, B., Sadaghian, H., Khalilzadehtabrizi, S., Pourbaba, M., Shirdel, M., & Mirmiran, A. (2023). Studying the compressive, tensile and flexural properties of binary and ternary fiber-reinforced UHPC using experimental, numerical and multi-target digital image correlation methods. *Case Studies in Construction Materials*, 18, e01865.

<https://doi.org/10.1016/j.cscm.2023.e01865>

Dadmand, B., Sadaghian, H., Khalilzadehtabrizi, S., Pourbaba, M., & Mirmiran, A. (2023). Exploring the mechanical properties of steel- and polypropylene-reinforced ultra-high-performance concrete through numerical analyses and experimental multi-target digital image correlation. *Front. Struct. Civ. Eng.* 17, 1228-1248.

<https://doi.org/10.1007/s11709-023-0931-8>

Mocelin, D. M., Isied, M. M., & Castorena, C. (2023). Influence of reclaimed asphalt pavement (RAP) and recycled asphalt shingle (RAS) binder availability on the composition of asphalt mixtures. *Journal of Cleaner Production*, 426, 139156.

<https://doi.org/10.1016/j.jclepro.2023.139156>

Mocelin, D. M., Isied, M. M., Alvis, M., Kusam, A., Underwood, B. S., Kim, Y. R., & Castorena, C. (2023). Laboratory performance evaluation of alternative approaches to incorporate recycled binder availability into mixture design procedures. *Transportation Research Record*, 2677(10), 519-533.

<https://doi.org/10.1177/03611981231161601>

Moinuddin, M., Proffer, E. L., Vechione, M. M., & Khanal, A. (2023). Application of machine learning models to predict driver left turn destination lane choice behavior at urban intersections. *International Journal of Transportation Science and Technology*, 13, 155-170.

<https://doi.org/10.1016/j.ijtst.2023.12.005>

Paudel, S., Vechione, M. M., & Gurbuz, O. (2023). Predicting university campus parking demand using machine learning models. *Transportation Research Record*, 2678(6),

<https://doi.org/10.1177/03611981231193417>

Proffer, E., Vechione, M. M., Souliman, M., Oliveras-Ortiz, Y., & Hickey, W. (2024). CMI3: Corozal metric for intersection improvement and implementation: A tool to improve vulnerable road user safety in a developing country. *Journal of Belizean Research*, 2(1). <https://jobr.ub.edu.bz/index.php/ubrij/article/view/28>

OTHER

Castorena, C., Underwood, B. S., Kim, Y. R., Mocelin, D., Isied, M., Alvis, M., & Kusam, A. (2023). Modifying Existing Asphalt Mix Design Procedures for RAP/RAS Surface Mixtures. No. FHWA/NC2021-06.

https://connect.ncdot.gov/projects/research/RNAPProjDocs/RP2021-06_Final%20Report_11-08-2023.pdf

POSTER PRESENTATIONS

Daoud, R., Vechione, M. M., Gurbuz, O., & Sundaravadivel, P. (2024, January). Development of an Illumination Data Collection Tool and Nighttime Crash Severity Prediction Models Using Machine Learning. In *Annual Meeting of the Transportation Research Board*. Transportation Research Board.

CHEMICAL ENGINEERING

POSTER PRESENTATIONS

Efthymiou, E. (2024, April). Multi-Angle, Nonuniform Excitations: Effect on Cable-Stayed Bridges. In *2024 EERI Annual Meeting*.

Kalfas, K., & Forcellini, D. (2024, April). Seismic hazard mitigation of tall buildings with mid-level isolation. In *EERI 2024 Annual Meeting*. Earthquake Engineering Research Institute (EERI), U.S. Federal Emergency Management Agency (FEMA), and Computers & Structures, Inc. (CSI). https://2024am.eeri-events.org/images/2024am/PDF_Posters/2024AM-Poster-1624-103790-Kalfas_-_Elina_Efthymiou.pdf

Kalfas, K., Cao, L., Ricles, J., & Makris, N. (2024, February). Seismic response of rocking structures equipped with pressurized sand dampers through real-time hybrid simulations. In *2nd NHERI Computational Symposium*. NSF NHERI SimCenter at UC Berkeley. https://simcenter.designsafe-ci.org/media/filer_public/1d/8f/1d8f5cea-b74c-4825-b2ab-dd44fa889e1d/comp_symposiumposter_2024_kalfas.pdf

Mohammed, Z., & Vechione, M. M. (2024, April). Application of Machine Learning Models to Predict Distracted Driving Crash Severity. In *Texas Institute of Transportation Engineers (TexITE) Spring 2024 District Meeting*. TexITE.

PRESENTATIONS

Isied, M. M. (2024, February). Current challenges facing the use of recycled materials and performance-related specifications in the pavement industry. In *2024 Engineers Week*.

Kalfas, K. (2023, December). Nonlinear real time hybrid simulations of structural systems with pressurized sand dampers. In *NHERI Lehigh RTMD Researcher Workshop*. Lehigh University, ATLSS Experimental Facilities.

Kalfas, K. (2024, April). Pressurized sand dampers: experimental tests and phenomenological modeling. In *University of Naples Federico II; Short course on Hysteretic Mechanical Systems*. University of Naples Federico II.

Vechione, M. M. (2024, August). Advanced Approach to Monitoring Illumination Data for Nighttime Crash Prediction. In *Texas Institute of Transportation Engineers (TexITE) Lone Star Section August Meeting*. Texas Institute of Transportation Engineers (TexITE) Lone Star Section.

Williams, C., Vechione, M. M., Le, M., & Gurbuz, O. (2024, April). Team Tyler: Transportation Programs, Innovation, and Research. In *Texas Innovation Alliance (TIA)*. Texas Innovation Alliance (TIA).

PROCEEDINGS PUBLICATIONS

Daoud, R., Vechione, M. M., Gurbuz, O., & Sundaravadivel, P. (2024a, January). Development of an Illumination Data Collection Tool and Nighttime Crash Severity Prediction Models Using Machine Learning. *103rd Annual Meeting of the Transportation Research Board*.

Souliman, M., Smith, M., & Beetge, J. (2023, November). Paving the Way for a Cleaner Future: How Ocean Plastic Waste Can Fuel Sustainable Pavement Industries. *International Road Federation R2T Conference and Exhibition*.

ELECTRICAL ENGINEERING

CHAPTERS

Wilmoth, P., & Sundaravadivel, P. (2023). Voice-enabled real-time affective framework for negative emotion monitoring. In *Affective Computing in Healthcare: Applications based on biosignals and artificial intelligence* (pp. 8-1 to 8-13).

<https://iopscience.iop.org/book/edit/978-0-7503-5182-9/chapter/bk978-0-7503-5182-9ch8>

JOURNAL PUBLICATIONS

Ambalavanan, N., Weese-Mayer, D. E., Hibbs, A. M., Claire, N., Carroll, J. L., Moorman, J. R., Bancalari, E., Hamvas, A., Martin, R. J., Di, F., & others. (2023). Cardiorespiratory monitoring data to predict respiratory outcomes in extremely preterm infants. *American Journal of Respiratory and Critical Care Medicine*, 208(1). <https://doi.org/10.1164/rccm.202210-1971OC>

Dutta, T., Noushin, T., Tabassum, S., & Mishra, S. K. (2023). Road map of semiconductor metal-oxide-based sensors: A review. *Sensors*, 23(15), 6849. <https://doi.org/10.3390/s23156849>

Hossain, N. I., Nayemuzzaman, S., & Tabassum, S. (2023). Dual localized surface plasmon resonance sensors on a single optical fiber. *IEEE Sensors Letters*, 7(9), 1-4. <https://doi.org/10.1109/LSENS.2023.3300815>

Hossain, N. I., Noushin, T., & Tabassum, S. (2023). Tattoo-like flexible ethylene sensor for plant stress monitoring in real-time. *IEEE Sensors Journal*, 1-1. <https://doi.org/10.1109/JSEN.2023.3327547>

Inam, A. K. M., Islam, M. N., Riam, S. Z., Perez, F., Delhom, C., Abidi, N., & Tabassum, S. (2023). Circular sensing of nitrate levels in water with flexible screen-printed sensors on biodegradable cellulose substrate. *IEEE Sensors Letters*, 7(9), 1-4. <https://doi.org/10.1109/LSENS.2023.3301834>

Khan, A. A., Rana, M. M., Wang, S., Fattah, M., Kayaharman, M., Zhang, K., Benedict, S., Goldthorpe, I. A., Zhou, Y. N., Sargent, E. H., & Ban, D. (2023). Control of halogen atom in inorganic metal-halide perovskites enables large piezoelectricity for electromechanical energy generation. *Small*, 19(32), 2303366. <https://doi.org/10.1002/sml.202303366>

Ramanand, P., Indic, P., Gentle, S. J., & Ambalavanan, N. (2023). Information based similarity analysis of oxygen saturation recordings to detect pulmonary hypertension in preterm infants. *Biomedical Signal Processing and Control*, 86, 105358. <https://doi.org/10.1016/j.bspc.2023.105358>

Riam, S. Z., Islam, M. N., Sarker, T., Budhraj, V., & Tabassum, S. (2024). Flexible organic electrochemical transistor based on conjugated conducting polymers. *ECS Transactions*, 113(7). <https://doi.org/10.1149/11306.0007ecst>

Salvatore, P., Indic, P., Khalsa, H. K., Tohen, M., Baldessarini, R. J., & Maggini, C. (2023). Circadian activity rhythms and psychopathology in major depressive episodes. *Psychopathology*, 57(1), 1-9. <https://doi.org/10.1159/000530768>

ELECTRICAL ENGINEERING

JOURNAL PUBLICATIONS

Saritas, R., Al-Ghamdi, M., Das, T. M., Rasheed, O., Kocer, S., Gulsaran, A., Khan, A. A., Rana, M. M., Khater, M., Kayaharman, M., Ban, D., Yavuz, M., & Abdel-Rahman, E. (2023). Nano groove and prism-structured triboelectric nanogenerators. *Micromachines*, 14(9), 1707. <https://doi.org/10.3390/mi14091707>

Yadav, A. K., Verma, D., Tabassum, S., & Solanki, P. R. (2023). Functionalized graphitic carbon nitride based aptasensing platform for electrochemical detection of helicobacter pylori. *IEEE Sensors Letters*, 7(12), 1-4. <https://doi.org/10.1109/LSENS.2023.3327589>

PRESENTATIONS

Tabassum, S. (2024, January). Wearable Sensors to Support In Situ Plant Health Monitoring. In *NASA Kennedy Space Center*.

Tabassum, S. (2024, March). Wearable Sensors to Support In Situ Monitoring of Sugarcane Maturity. In *SIBS Biannual Meeting*.

Tabassum, S., & Sangmen, E. (2024, July). Smart Sensor-Suite for Monitoring Field Volatile Organic Compound and Ion Fluxes Toward Nitrogen Stress Management in Cotton Plants. In *Agricultural and Food Research Initiative Project Director's Meeting*.

PROCEEDINGS PUBLICATIONS

Borah, S. S., Ghosh, M., Nagar, B. C., & Sundaravadivel, P. (2024). Design and Analysis of an Electronically Tunable VDTA-Based Quadrature Oscillator. *2024 IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, 704-707. <https://ieeexplore.ieee.org/abstract/document/10682650>

Ghorshi, S. (2023, October). Speech Denoising Based on Wavelet Transform and Wiener Filtering. *8th IEEE International Conference on Frontiers of Signal Processing*.

Ghorshi, S. (2024, March). Integrating Piezoelectric Sensors for Enhanced Failure Prediction of Residential Buildings in Hurricane. *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*.

Riam, S. Z., Islam, M. N., Inam, A. S., & Tabassum, S. (2023). A Low-cost, Flexible Electrochemical Sensor for Nitrate Detection in Water. *2023 IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS)*, 1-4. <https://doi.org/10.1109/FLEPS57599.2023.10220399>

Shirvaikar, M., Grecos, C., Clay, M., & Richey, B. (2024, April). Multi-reward optimization using genetic algorithms for edge AI. *SPIE International Conference on Real Time Image Processing and Deep Learning*.

GRANTS

Ghorshi, S., Souliman, M. (Co-PI). Design, Modeling, and Prototyping a Health Monitoring System for Residential and Commercial Buildings, University of Texas at Tyler, (September 1, 2023), USD \$28,225.

Indic, P. Machine Learning Models, Fisher Controls, (May 1, 2024), USD \$7,000.

Indic, P. RAE Health Summer 24 Grant, Continue YOU, (May 1, 2024), USD \$17,000.

ELECTRICAL ENGINEERING

GRANTS

Sundaravadivel, P. Quanti-Fry: Intelligent Monitoring Framework, United States Department of Agriculture (USDA), (March 18, 2024), USD \$18,000.

Tabassum, S., Cook, A. (Co-PI). Trauma Research and Combat Casualty Care (TRC4), Trauma Research and Combat Casualty Care Collaborative, (April 1, 2024), USD \$100,000.

Tabassum, S., Khajah, T. (Co-PI), Chou, S. (Co-PI), Ibrahim, A. (Co-PI), Lacerda, C. (Co-PI). Acquisition of a micro/nanofabrication tool, National Science Foundation, (July 2, 2024), USD \$828,570.



MECHANICAL ENGINEERING

CREATIVE PRODUCTIONS

Barakat, N. (2023, Autumn). Invited Editorial: Data is Never biased, and AI is Never Unethical. In Editorials of the Ethics Special Interest Group. European Society for Engineering Education (SEFI).

JOURNAL PUBLICATIONS

Acosta, S., & Khajah, T. (2024). Method of virtual sources using on-surface radiation conditions for the Helmholtz equation. Engineering Analysis with Boundary Elements, 159, 342-351.
<https://doi.org/10.1016/j.enganabound.2023.12.008>

Anthony, J., Goh, C. H., Yazdanshenas, A., & Wang, Y. T. (2024). Redesign of Leg Assembly and Implementation of Reinforcement Learning for a Multi-Purpose Rehabilitation Robotic Device (RoboREHAB). Applied Sciences, 14(2), 516-528.
<https://doi.org/10.3390/app14020516>

Bourgeois, A., Rice, B., & Goh, C. H. (2024). Design Optimization of the Lift Mechanism in the Robotic Walking Training Device Using the Engineering Design Methodology. Applied Sciences, 14(1), 327-347.
<https://doi.org/10.3390/app14010327>

Cerrato, G., & Fumo, N. (2024). Photocatalytic oxidizing air cleaning technology - A review. Energy Reports, 11, 1412-1419.
<https://doi.org/10.1016/j.egyr.2024.01.009>

Hassan, M., & Ibrahim, A. (2023). A two-degree-of-freedom vibro-impact triboelectric energy harvester for larger bandwidth. Journal of Sound and Vibration, 563, 117798.
<https://doi.org/10.1016/j.jsv.2023.117798>



MECHANICAL ENGINEERING

JOURNAL PUBLICATIONS

Jeon, W., Dong, X. N., Dalby, A., & Goh, C. H. (2024). The influence of smoothness and speed of stand-to-sit movement on joint kinematics, kinetics, and muscle activation patterns. *Frontiers in Human Neuroscience*, 18, 1399179.

<https://doi.org/10.3389/fnhum.2024.1399179>

Khajah, T. (2024). Iterative on surface radiation conditions for fast and reliable single and multiple scattering analyses of arbitrarily shaped obstacles. *Computer Methods in Applied Mechanics and Engineering*, 420, 116715.

<https://doi.org/10.1016/j.cma.2023.116715>

Mohamed, R., & Chou, S.-F. (2024). Physicomechanical characterizations and in vitro release studies of electrospun ethyl cellulose fibers, solvent cast carboxymethyl cellulose films, and their composites. *International Journal of Biological Macromolecules*, 267, 131374.

<https://doi.org/10.1016/j.ijbiomac.2024.131374>

Rodriguez, J. L., & Fumo, N. (2024). Simultaneous thermal zoning and demand control ventilation. *Energy Reports*, 11, 4412-4422.

<https://doi.org/10.1016/j.egyr.2024.04.025>

Wilkins, M., & Fumo, N. (2023). A review of models on direct evaporative cooling. *American Journal of Undergraduate Research*, 20(2), 45-55.

<https://doi.org/10.33697/ajur.2023.086>

POSTER PRESENTATIONS

Salim, M. (2024, March). Future Power Solutions for Exploring a Hypothesized Surface (NASA-Psyche). In Great Plains Honors Council Conference.

PRESENTATIONS

Barakat, N. (2023, September). Invited Workshop: Techniques in Teaching Ethics and Professional Responsibility. In European Society for Engineering Education Annual Conference -2023 (SEFI). European Society for Engineering Education (SEFI).

Barakat, N. (2023, October). Invited Speaker: Can AI be Unethical? In International Congress of Educational Sciences and Health Sciences ICEHS'23.

Barakat, N. (2023, November). Interactive Workshop: Ethics of AI and Machine Learning. In ASME - International Mechanical Engineering Conference and Expo. (IMECE2023).

Barakat, N. (2023, November). Invited Workshop: Adopting Emerging Technologies when Teaching Engineering Ethics and Social Responsibility - AI as an example. In TAL2023 Conference. IEEE-Educational Society -Region 10. <https://tale2023.com/workshop-teaching-and-ai/>

Biswas, M. A. R. (2023, September). Hands on project based learning activity. In Maiden Workshop on Engineering Education. King's College London.

MECHANICAL ENGINEERING

Fumo, N. (2023, November). La administración de energía - La herramienta de gestión integral de sistemas de refrigeración y aire acondicionado. In ASHRAE Colombia Chapter. ASHRAE.

PROCEEDINGS PUBLICATIONS

Anthony, J., Matthew, L. A., Ashley, D., & Goh, C. H. (2024, April). Utilizing a Deep Learning-Computational Fluid Dynamics Surrogate to Identify Aneurysm-Prone Locations in Human Arteries. 9th Thermal and Fluids Engineering Conference (TFEC).
<https://doi.org/10.1615/TFEC2024.bio.051419>

Barakat, N., & Shekh-Abed, A. (2023, September). Soft Skills of Engineering Students. European Society for Engineering Education Annual Conference (SEFI).
<https://doi.org/10.21427/2GWZ-XY34>

Barakat, N., & Shekh-Abed, A. (2023, September). System Thinking of Engineering Students. International Conference of Interactive and Collaborative Learning (ICL).

Biswas, M. A. R., Biswas, M. A. S., Salim, M., & Wilberforce, T. (2023, September). Remaining Useful Life Estimation of Proton Exchange Membrane Fuel Cells Using Artificial Neural Network. International Congress on Sustainability Science & Engineering (ICOSSE).

Biswas, M. A. R., Khanal, A., & Sundaravadivel, P. (2024, June). Data-driven Approach to Problem Solving in Renewable Energy and Engineering Education. ASEE Annual Conference and Exposition.
<https://peer.asee.org/47034>

Biswas, M. A. R., Khanal, A., & Sundaravadivel, P. (2024, June). Using Video Creation to Develop the Entrepreneurial Mindset of Engineering Students. ASEE Annual Conference and Exposition.
<https://peer.asee.org/48245>

Fumo, N. (2024, March). The JUMP into STEM - The Second Experience. ASEE Gulf Southwest Section 2024 Annual Conference.
<https://peer.asee.org/45398>

Khajah, T., & Acosta, S. (2024, July). Fast multiple scattering analyses in reduced spatial dimensions. World Congress on Computational Mechanics (WCCM) and 4th Pan American Congress on Computational Mechanics.

Khajah, T., & Acosta, S. (2024, Summer). Stable and Accurate Multiple Scattering Analyses Using Method of Virtual Sources with On Surface Radiation Conditions. WAVES.

Khajah, T., & Parys, K. (2024, Summer). Tuning an Acoustic Metamaterial Using Iso-Geometric Analysis and Evolutionary Shape Optimization. 17th IEEE Dallas Circuits and Systems Conference.
<https://doi.org/10.1109/DCAS61159.2024.10539873>

Khan, M. I., Fumo, N., Asama, M., Bassham, V., & Defor, C. (2024, March). Mitigating Energy Inefficiency: A Cost-Effective Approach to Cool Attic Spaces in Lower-Income Households in the Southeastern United States. ASEE Gulf Southwest Section 2024 Annual Conference.
<https://peer.asee.org/45390>

MECHANICAL ENGINEERING

Khanal, A., Biswas, M. A. R., & Sundaravadivel, P. (2024, June). Incorporating Sustainability into Engineering Curriculum Through Project-Based Learning (PBL). ASEE Annual Conference and Exposition.
<https://peer.asee.org/46700>

Mossad, M. 'ath, Biswas, M. A. R., Salim, M., El-Kishky, H., & Barakat, N. (2023, September). Artificial Neural Network Based Model for Reverse Osmosis Water Desalination Membrane. International Congress on Sustainability Science & Engineering (ICOSSE).

Villamizar, V., Grundvig, D., Rojas, O., Khajah, T., & Acosta, S. (2024, Summer). High order local absorbing boundary conditions for elastic scattering. WAVES.

GRANTS

Biswas, M., Garcia, O. (PI). SolarCharge StudyHub and FuelCell KnowledgePoint; GreenSynergy, Department of Energy, (November 1, 2023), USD \$15,000.

Fumo, N. Commercial Equipment Performance Comparison, Portacool Inc. (Center, TX), (October 2, 2023), USD \$9,000.

Fumo, N. Residential Energy Assessment for Equity in Energy: Alliance for Sustainable Energy, LLC, Department of Energy, (November 1, 2023), USD \$15,000.

Ibrahim, A., Tabassum, S. (Co-PI). Self-powered Multidirectional Smart Switch for Fall Detection, University of Texas at Tyler, (September 1, 2023), USD \$28,000.

Khajah, T., Acosta, S. (Co-investigator). Novel pseudo-differential methods, National Institute of Health (NIH), (July 15, 2024), USD \$481,440.

Salim, M., Barakat, N. (Co-PI), El-Kishky, H. (Co-PI). Computer Aided Design (CAD) drawings for SONOZAIRE's pro, SONOZAIRE corporation, (September 1, 2023), USD \$10,000.

Salim, M., Barakat, N. (Co-PI), El-Kishky, H. (Co-PI). Sustainable Portable Water Desalination and Power Unit, University of Texas at Tyler, (September 1, 2023), USD \$25,020.

Salim, M. PurgeRite, PurgeRite, (August 1, 2024), USD \$10,000.





The Ben and Maytee Fisch College of Pharmacy (FCOP) was established in 2013, welcoming its inaugural class in 2015. Its mission is to cultivate pharmacy professionals and advance healthcare through collaborative education, scholarship, and service.

The FCOP offers a Doctor of Pharmacy (PharmD) degree with a curriculum emphasizing active learning, interprofessional collaboration, and real-world application. This four-year doctoral program fosters communication, critical thinking, and teamwork—essential skills for addressing complex healthcare challenges. Experiential training begins in the first semester and is integrated throughout all four years, allowing students to gain hands-on experience early in their pharmacy education.

Students train in various patient care environments and pharmacies alongside pharmacists, nurses, physicians, and other healthcare professionals. These experiences foster meaningful professional relationships and networks across Texas and beyond, while making a positive impact on the communities and patients they serve. Graduates emerge well-equipped with the knowledge, skills, and competencies needed for impactful careers in pharmacy.

FCOP faculty and students are actively engaged in research and scholarly activities spanning a wide array of topics. These include drug discovery for cancer, infectious diseases, and neurological disorders such as Alzheimer's and Parkinson's disease; advancements in bio and nanotechnologies; pain management and substance abuse; transitions of care; and strategies to improve medication access, adherence, and safety. Additional scholarship is focused on enhancing student learning and advancing patient care.

These interdisciplinary research efforts often involve collaboration with colleagues across UT Tyler, throughout Texas, across the nation, and internationally. Faculty success is reflected in their achievements—including grants, publications, awards, and professional presentations—demonstrating their commitment to excellence in research and education. Through their scholarly contributions, FCOP faculty and students actively support and advance the mission of The University of Texas at Tyler.

*Pamella Ochoa, PharmD
Interim Dean, Ben & Maytee Fisch College of Pharmacy
Associate Dean, Office of Experiential Education
Clinical Professor, Department of Clinical Sciences*

BEN & MAYTEE FISCH COLLEGE OF PHARMACY



CLINICAL SCIENCES

JOURNAL PUBLICATIONS

Shoair, Osama A. (2024). Academic performance among pharmacy students using virtual vs. face-to-face team-based learning. *Annals of Medicine*, 56(1).
<https://doi.org/10.1080/07853890.2024.2349205>

Yu, F., Reid, S., Smith, W. J., & Ochoa, P. (2024). APPE unreadiness - the other side of the coin. *Currents in Pharmacy Teaching and Learning*, 16(5), 297-299.
<https://doi.org/10.1016/j.cptl.2024.02.003>

POSTER PRESENTATIONS

Adhikari, K., Shoair, O. A., Reed, R., Kamal, K., & Al-Mamun, M. A. (2024, May 24). Evaluating the Use of Antipsychotic Drug and Incidence of Stroke Among Patients with Dementia in the USA. In *The Professional Society for Health Economics and Outcomes Research Annual Meeting*.

PRESENTATIONS

Wallace-Gay, T. D., & Racataian-Gavan, R. (2023, November). IPE and Facilitating Interprofessional Teams: Empowering Medical Residents as Mentors and Preceptors. In *UT Health Graduate Medical Education Grand Rounds*.



PHARMACEUTICAL SCIENCES

JOURNAL PUBLICATIONS

Abdelaziz, M. (2023). Camptothecin structure simplification elaborated new imidazo[2,1-b]quinazoline derivative as a human topoisomerase I inhibitor with efficacy against bone cancer cells and colon adenocarcinoma. *European Journal of Medicinal Chemistry*, 265.
<https://doi.org/10.1016/j.ejmech.2023.116049>

Abdelaziz, M., Rowe, C., Southwood, R., Nogid, A., Berman, S., & Gustafson, K. (2024). A scoping review of artificial intelligence within pharmacy education. *Am J Pharm Educ.*, 88(1).
<https://doi.org/10.1016/j.ajpe.2023.100615>

Lee, Y. R. Worldwide Antimicrobial Resistance National/International Network Group (WARNING) Collaborators (2023). Ten golden rules for optimal antibiotic use in hospital settings: the WARNING call to action. *World journal of emergency surgery: WJES*, 18(1), 50.
<https://doi.org/10.1186/s13017-023-00518-3>

Singh, S., Gumbo, T., Alffenaar, J.-W., Boorgula, G. D., Shankar, P., Thomas, T. A., Dheda, K., Malinga, L., Raj, P., Aryal, S., & others. (2023). Meropenem-vaborbactam restoration of first-line drug efficacy and comparison of meropenem-vaborbactam-moxifloxacin versus BPAL MDR-TB regimen. *International Journal of Antimicrobial Agents*, 62(6), 106968.
<https://doi.org/10.1016/j.ijantimicag.2023.106968>

POSTER PRESENTATIONS

Aryal, S. (2023, September). Optimization of Localized Photothermal Cancer Therapy Utilizing Liposomal Indocyanine Green Photoactive Dye. Dinesh Shrestha, Danyel Manteufel, Shelby Metcalf, Anna Montero, Shoukath Sulthana, Santosh Aryal. In *39th Southern Biomedical Engineering Conference*, New Orleans. NIH.

Aryal, S. (2023, September). Isolation and Investigation of Drug Delivery Potentials of Extracellular Vesicles Derived from Natural Killer Cell. Hadeeqah Quazi, Israel Joshua Santhosh, Shoukath Sulthana, Santosh Aryal. In *39th Southern Biomedical Engineering Conference*, New Orleans. NIH.

Aryal, S. (2023, September). Synthesis and Characterization of PLGA Nanoparticles with Varying Weights to Study the Weight Effect on Cellular Uptake. Anthony Vega, Dinesh Shrestha, Israel Joshua Santhosh, Santosh Aryal. In *39th Southern Biomedical Engineering Conference*, New Orleans. NIH.

Aryal, S. (2024, March). Engineering Immune cell with a model drug: A Cell-based Approach for Cancer Treatment. Macie Kirkby, Dinesh Shrestha, Israel Joshua Santhosh, Shoukath Sulthana, Santosh Aryal. In *ACS March 17-18 Spring 2024*.

Hamouda, A. K. (2023, September). The Effect of Cannabidiol (CBD) on Liver and Lung Cell Viability. In *Southern Biomedical Engineering Conference*.

Hamouda, A. K. (2023, September). The Effect of Nicotinic Receptor Potentiators on Human Lung Cell Viability. In *Southern Biomedical Engineering Conference*.

PHARMACEUTICAL SCIENCES

POSTER PRESENTATIONS

Hamouda, A. K. (2023, November). An Expression based approach to assessing a Parkinson's Disease-like state in 6-OHDA Exposed Zebrafish larvae. In the Society for Neuroscience annual meeting.

Hamouda, A. K. (2023, November). Assessing the Potentiation of $(\alpha 4)\beta 2$ Nicotinic Acetylcholine Receptor by Analogs of the Allosteric Agonist CMPI. In The Society for Neuroscience annual meeting.

PRESENTATIONS

Aryal, S. (2023, September). Role of Tumor-Derived Exosomes in Tumor Targeting. Shoukath Sulthana, Dinesh Shrestha, and Santosh Aryal. In 39th Southern Biomedical Engineering Conference. NIH.

Aryal, S. (2023, September). Biogenic modification of functional properties of mouse macrophage-derived extracellular vesicles by bacterial vesicles to enhance cancer targeting. Israel Joshua Santhosh, Ayan Khan, Shoukath Sulthana, Farah Deba, Santosh Aryal. In 39th Southern Biomedical Engineering Conference. NIH.

Aryal, S. (2023, November). Nanomedicine: Today's Clinical Status. In Invited Talk. NIH.

Aryal, S. (2024, March). Extracellular vesicle infused liposomes in targeted drug delivery. Shoukath Sultana, Dinesh Shrestha, Israel Joshua Santhosh, Macie Kirby, Anavya Jernigan, Santosh Aryal. In ACS March 17-18 Spring 2024. NIH Grants.

PROCEEDINGS PUBLICATIONS

Singh, S., Shankar, P., Sulthana, S., Boorgula, G. D., Aryal, S., & Srivastava, S. (2023). Sarecycline Pharmacokinetics-pharmacodynamics in the Hollow Fiber Model of M. Avium Complex. B28. SOLVING THE PUZZLE OF BRONCHIECTASIS AND NONTUBERCULOUS MYCOBACTERIA, A2967-A2967.

https://www.atsjournals.org/doi/abs/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A2967

REVIEWS

Glavy, J. S. (2024). Review of The yin and yang of nuclear envelope breakdown through the activity of phosphatase holoenzyme PP2A-B55SUR-6. Cell Press, 272-273.

GRANTS

Abdelaziz, M., Kant, S. (Co-PI). The effect of VraS mutation on S. aureus gene expression and signaling network, University of Texas at Tyler, (September 1, 2023), USD \$30,000.

Abdelaziz, M. Characterization of HER2 inhibitors with a novel mechanism of action, National Institute of Health (NIH), (April 1, 2024), USD \$447,195.

Aryal, S. (Co-Investigator), Kant, S. (PI). Short Course Combination Regimens for Treatment, National Institute of Health (NIH), (December 8, 2023), USD \$59,269.

Hamouda, A. Selective Positive Allosteric Modulators of $\alpha 4\beta 2$ Nicotinic Receptors, Northeastern, (August 1, 2024), USD \$231,543.38.





The School of Health Professions is the only academic unit at UT Tyler with programs that span the Health Science Center and Academic campus. The SHP is committed to (1) advancing the quality of population health outcomes in East Texas, (2) promoting wellness through research, education, and community and clinical programs, and (3) training the next generation of health professionals. The school includes 27 full-time faculty members in three academic departments: Kinesiology, Population Health Leadership and Analytics, and Rehabilitation Sciences. The Health Professions faculty are actively involved in a wide variety of research and scholarship activities impacting the health and well-being of East Texans and beyond.

Over the past year, SHP faculty published multiple peer reviewed research articles, presented scholarly presentations, and authored books and book chapters. To highlight a few areas of research — the Department of Kinesiology faculty are involved in interdisciplinary research groups to study balance and risk of falls in older adults. Dr. Woohyoung Jeon and Ashley Dalby received funding from the Myositis Support Association to study balance control and risk of falls in myositis patients. A second group, including Dr. Neil Dong and faculty in the College of Engineering is working to create a wearable sensor that automatically detects a fall so that medical help can be obtained quickly. Dr. Madhura Maiya in the Department of Kinesiology is examining the nutritional value of resistant starches and their potential for combating insulin resistance and type II diabetes.

Department of Population health Leadership and Analytics faculty are collaborating with researchers at UT Houston to evaluate early childhood health screening in Northeast Texas and are working on the UT Houston CTSA grant, with a focus on community outreach and training of “community Scientists”. They are also working with colleagues in the School of Nursing on Public Health Informatics training and are collaborating with the School of Medicine on translational research projects involving community outreach. In the Department of Rehabilitation Sciences, Dr. Tina Melamed is studying language use and development in children, using behavioral and physiological measures to investigate how experiences, environment, and socio-economic status interact to support language development. Speech Language Pathology has hired an Audiologist, and a Speech Language Pathologist specialized in hearing sciences and combined they will bring a service to East Texas to support and research hearing sciences.

SCHOOL OF HEALTH PROFESSIONS

Occupational Therapy Faculty Dr. Garner has received a grant to train community members and students on Dementia, through the simulated Dementia Tour as a certified trainer. Dr. Bradley continues to research nomophobia ‘fear of losing your cell phone’ and Dr. Parti continues to research maternal mental health and has partnered with APTA Physical Therapy professionals to research menopause and aging in place. Dr. Taylor leads our Pediatrics team and researches the role of OT in fostering and community-based needs, NICU, school-based therapy and is also involved in mission work in Guatemala with our adjunct faculty Dr. Sit. Professor Cage is obtaining her post professional doctoral degree and focusing on curriculum design and enhancement. These are just a few of the research and scholarship projects that the School of Health Professions faculty are pursuing. I’m proud to celebrate the scholarship of our faculty as we work to improve the lives of all Texans.

Theresa Byrd, DrPH, MPH, RN
Dean, School of Health Professions

KINESIOLOGY

JOURNAL PUBLICATIONS

Bosteder, K. D., van Zuyt, J. S., Arce-Esquivel, A. A., Cooper, C., Felius, J., & Gottlieb, R. L. (2024). Exercise capacity and cardiac allograft ischemic time in recent heart transplant recipients. JHLT Open, 5. <https://doi.org/10.1016/j.jhlto.2024.100115>

Lowe, T., Dong X. N., & Griffin, L. (2023). Hamstrings vibration reduces tibiofemoral compressive force following Anterior Cruciate Ligament Reconstruction. Journal of Orthopaedic Research, 42(4), 788-797. <https://doi.org/10.1002/jor.25736>

Jeon, W., Ramadan, A., Whittall, J., Alissa, N., & Westlake, K. (2023). Age-related differences in lower limb muscle activation patterns and balance control strategies while walking over a compliant surface. Scientific Reports, 13, Article 16555. <https://doi.org/10.1038/s41598-023-43728-0>

Jeon, W., Alderete, S., & Abraham, L. (2024). A Preliminary Study on How Combining Internal and External Focus of Attention in a Movement Language Can Improve Movement Patterns. Applied Sciences, 14, Article 5140. <https://doi.org/10.3390/app14125140>

Jeon, W., & Chethan, R. (2024). Identifying Goalkeeper Movement Timing from Single-Camera Broadcast Footage through Pose Estimation: A Pilot Study. Applied Sciences, 14, 5961. <https://doi.org/10.3390/app14135961>

Jeon, W., Dong, X. N., Dalby, A., & Goh, C. H. (2024). The influence of smoothness and speed of stand-to-sit movement on joint kinematics, kinetics, and muscle activation patterns. Frontiers in Human Neuroscience, 18, <https://doi.org/10.3389/fnhum.2024.1399179>

Bush, J.R., Han, J., Deehan, E.C., Harding, S.V., Maiya, M., Baisley, J., Schibli, D., & Goodlett, D.R. (2023). Resistant potato starch supplementation reduces serum histamine levels in healthy adults with links to attenuated intestinal permeability. Journal of Functional Foods, 108, 105740, <https://doi.org/10.1016/j.jff.2023.105740>

POSTER PRESENTATIONS

Dong, X. N. (2024, February). Anisotropic variogram assessment of DXA images of human lumbar vertebrae. In Annual Meeting of Orthopaedic Research Society. Orthopaedic Research Society.

PRESENTATIONS

Arce-Esquivel, A. A. (2023, December). The Effects of Exercise and Probiotics in Patients with Type 2 Diabetes. In International Symposium: Nutrition and Diabetes. School of Health Sciences - Universidad Peruana de Ciencias Aplicadas (UPC).

Goh, C. H., & Jeon, W. (2024, Summer). Utilizing Reinforcement Learning to Improve Gait Training Performance and Development of Gravity-Compensating Control System for Roborehab Device Paper Number: IDETC/CIE2024-143328. In The American Society of Mechanical Engineers.

KINESIOLOGY

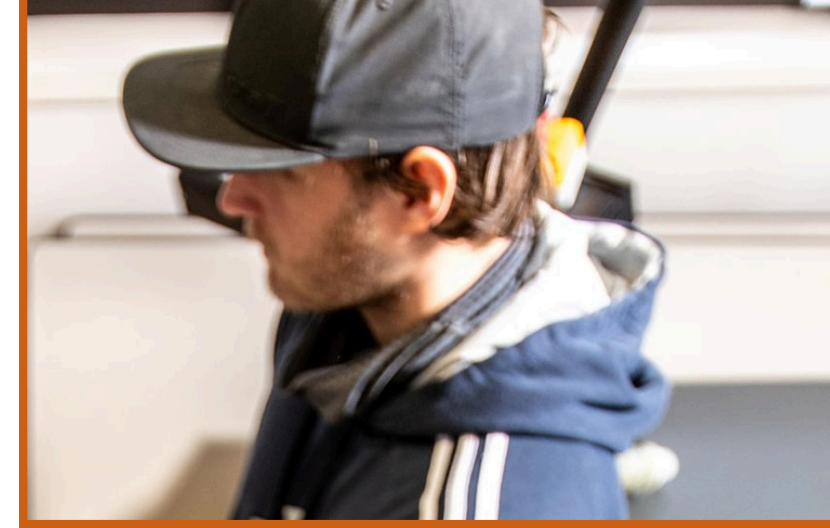
PRESENTATIONS

Jeon, W. (2024, April 11). The Influence of Smoothness and Speed of Stand-to-Sit movement on joint kinematics, kinetics, and muscle activation patterns. In East Texas Research Conference.

GRANTS

Jeon, W., Goh, C.H. (Co-PI), Dong, X. (Co-PI), Karan, S. (Co-PI). Knee extensor eccentric control for landing balance of stand-to-sit and its relationship with postural stability during perturbation responses, University of Texas at Tyler, (September 1, 2023), USD \$30,000.

Madhura, M., Deba, F. (Co-Investigator). Effect of Varying Cooking and Storing Techniques on Starch Structure, Concentration, and Bacterial Degradation, University of Texas at Tyler, (September 1, 2023), USD \$30,000.



PUBLIC HEALTH

JOURNAL PUBLICATIONS

Njororai Dr., F. J., Nyaranga, C. K., Cholo, W., Amulla, W., & Ndetan, H. (2023). Correlates of COVID-19 vaccine acceptance and hesitancy in rural communities in Western Kenya. *Vaccines*, 11(10), 1516.
<https://doi.org/10.3390/vaccines11101516>

Njororai Dr., F. J. (2024). Compliance with World Health Organization COVID 19 preventive behaviors in rural counties in western Kenya: a cross-sectional study. *PanAfrican Medical Journal*, 47, 30.
<https://doi.org/10.11604/pamj.2024.47.30.40558>

Njororai Dr., F. J., Amulla, W., Nyaranga, C. K., Chollo, W., & Adekunle, T. (2024). A Qualitative Exploration of Factors Associated with COVID-19 vaccine Uptake and Hesitancy in Selected Rural Communities in Kenya. *COVID*, 4(6), 715-730.
<https://doi.org/10.3390/covid4060048>

GRANTS

Byrd, T.L. The PHIT Workforce Development Program: Creating a diverse and inclusive health information technology (IT) workforce in Texas, Health Resources and Services Administration (HRSA) - US Department of Health and Human Services (DHHS), (October 1, 2023), USD \$52,877.



REHABILITATION SCIENCES

JOURNAL PUBLICATIONS

Melamed, T. C., Obuchowski, L. B., & Kirkley, K. M. (2024). Connecting the Dots: Interoception and Social-Emotional Communication. *Perspectives of the ASHA Special Interest Groups*, 9(4), 1181-1187.
https://doi.org/10.1044/2024_PERSP-23-00285

POSTER PRESENTATIONS

Schwarz, A. L., Melamed, T. C., Bowers, J., Perez, C., & Abdi, H. (2024, June). Parents' Attitudes Towards Persons with Language Disorders: Validation of a Multidimensional Attitudes Scale. In *Symposium for Research on Child Language Disorders*.

PRESENTATIONS

Obuchowski, L. B., Kirkley, K. M., Bala, A., & Melamed, T. C. (2024, February). Social communication, interoceptive awareness, and self-regulation: Oh my! In *Texas Speech Language and Hearing Association Annual Convention*. Texas Speech Language and Hearing Association.



SCHOOL OF MEDICINE

At the School of Medicine, it's our mission to improve health outcomes throughout the East Texas region through addressing the physician shortage and increase health care accessibility. We intend to accomplish through prioritizing the four aspects of our mission: community, education, research and clinical.

There are a wide array of centers and departments within the School of Medicine that make this mission possible, including the Center for Biomedical Research; the Center for Clinical Research; the Center for NTM, or nontuberculous mycobacteria, Innovation; a center for the diagnosis and treatment of Alzheimer's Disease and dementia; and our multiple clinical departments: Anesthesiology and Perioperative Medicine, Emergency Medicine, Family Medicine, Internal Medicine, Neurology, Pediatrics, Preventive and Occupational Environmental Medicine, Psychiatry, Surgery, Woman's Health and more.

At the Center for Biomedical Research, renowned researchers are gaining a deeper understanding of diseases while developing novel treatments. Their research focuses on cardiovascular disease; acute, chronic and infectious lung diseases; thoracic malignancies; and immunologic problems. In the Master of Science in biotechnology program, students present their research alongside their faculty mentors at international conferences and society meetings, and many faculty publications include student contributions. In addition, the Center for NTM Innovation, led by Dr. Jennifer Honda, has continued to grow, welcoming new faculty members and involving high schools, such as UT Tyler's University Academy, in sample collection for environmental testing.

The Center for Clinical Research conducts clinical trials throughout East Texas, delivering evidence-based, cost-effective medical care. Its studies focus on lung cancer screening, pulmonary medicine, cardiology and oncology. Our investigators and staff are involved in several industry- and grant-funded research projects for patients diagnosed with Bronchiectasis, Non-Mycobacterium Tuberculosis, Cystic Fibrosis, and more. Those interested in participating can learn more at clinicalresearch.uttyler.edu. The Public Health Lab of East Texas serves the region by testing for potential biological threats and training East Texas laboratories on how to prepare. The lab is a registered Laboratory Response Network reference laboratory that protects the community from bioterrorism.

The Department of Preventive, Occupational and Environmental Medicine serves as a means to reach out and engage with the community. Our faculty instruct and teach Master of Public Health and Master of Health Administration students, General Preventive Medicine Residency and Occupational Medicine Residency physicians, and community health workers. This department offers an array of lifestyle change programs, including the Diabetes Prevention Program, Hypertension Workshops, Hypertension Monitoring/Support, Active Living After Cancer, Your Diabetes and Your Heart, and Tobacco Cessation. Research in the department ranges from infectious disease treatment through testing and vaccination to breast and cervical cancer screening outreach grants.

The division of Occupational and Environmental Medicine also contributes to safer workplaces through collaborating with the CDC National Institute for Occupational Safety and Health. Previously, the faculty researched and demonstrated how COVID-19 impacted industrial sectors to aid companies in preparing for future pandemics. The Southwest Ag Center, led by Dr. Vanessa Casanova, is a key component of this department and aims to improve the health of agricultural, forestry and fishing workers by providing outreach to the five southwest states.

Our students continue to excel across all of our programs. We have matched our third cohort of 40 undergraduate medical students, and our first class is excelling in the Phase 2 clerkships. Our biotechnology students continue to participate in and contribute to cutting-edge research. We have over 200 residents and fellows serving in hospitals and clinics throughout the region every day. This fall, we are welcoming our inaugural class to the Integrated Biomedical Sciences PhD program, the first of its kind in Northeast Texas.

We've already accomplished so much since launching the School of Medicine, and I know there will be so much more in the years to come—novel research discoveries, many more cohorts of physicians dedicated to serving East Texas, new centers and departments to meet the needs of the region. I have every confidence that the seeds we're sowing right now will, in the coming years, result in fewer health disparities, better access to care and healthier communities throughout the East Texas community. I look forward to that day—and it's my hope that it will come sooner than we think.

*Sue Cox, MD
Dean, School of Medicine*

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

JOURNAL ARTICLES

Butler, D. D., Hundley, D. A., Lin, H. Y., Villani, V., Bynon, J. S., Bai, Y., & Pivalizza, E. G. (2024). Blood Management in a Liver Transplant Recipient with Kidd (Jka) and Rhesus (D) Antibodies: A Case Report. *A&A practice*, 18(4), e01769.
<https://doi.org/10.1213/XAA.00000000000001769>

Jefferies, H. B., Pivalizza, C. M., & Pivalizza, E. G. (2023). High-Flow Nasal Cannula Oxygen and Safe Apnea Time. *Anesthesia and analgesia*, 137(3), e26–e27.
<https://doi.org/10.1213/ANE.00000000000006602>

Livingston, C. E., Levy, D. T., Saroukhani, S., Fox, E. E., Wade, C. E., Holcomb, J. B., Gumbert, S. D., Galvagno, S. M., Kaslow, O. Y., Pittet, J. F., & Pivalizza, E. P. (2023). Volatile anesthetic and outcome in acute trauma care: planned secondary analysis of the PROPPR study. *Proceedings (Baylor University Medical Center)*, 36(6), 680–685.
<https://doi.org/10.1080/08998280.2023.2243204>

Pivalizza E. G. (2023). Challenges of retrospective data during the COVID pandemic. *Proceedings (Baylor University Medical Center)*, 36(6), 679.
<https://doi.org/10.1080/08998280.2023.2257587>

Quaye, A. N., Hisey, W. M., Mackenzie, T. A., Robinson, C. M., Richard, J. M., Anderson, J. C., Warters, R. D., & Butterly, L. F. (2024). Association between Colonoscopy Sedation Type and Polyp Detection: A Registry-based Cohort Study. *Anesthesiology*, 140(6), 1088–1097.
<https://doi.org/10.1097/ALN.00000000000004955>

Smith, C., Caesar, D., Perry, K., Jonna, S., Villani, V., & Pivalizza, E. G. (2023). Effect of Preoperative Therapeutic Plasma Exchange With Albumin Replacement Before Kidney Transplant on Intraoperative Coagulation Measured By the Thrombelastograph (TEGR 6s): A Case Report. *A&A practice*, 17(12), e01734.
<https://doi.org/10.1213/XAA.00000000000001734>

Swift, M. M., Fair, J. H., & Pivalizza, E. G. (2023). Inversed, disproportionate contribution of fibrinogen to clot strength. *Transfusion*, 63(11), 2021–2022.
<https://doi.org/10.1111/trf.17560>

Torsher, L. C., Dutton, R. P., Banerjee, A., & Pivalizza, E. (2023). Welcome to the 2023 Issue of *Advances in Anesthesia*. *Advances in anesthesia*, 41(1), xxiii–xxiv.
<https://doi.org/10.1016/j.aan.2023.08.001>

Wilder, I. W., Reskallah, A., Pivalizza, C. M., Bynon, J. S., & Pivalizza, E. G. (2022). Refractory thrombocytopenia during liver transplantation requiring splenectomy. *Proceedings (Baylor University Medical Center)*, 36(1), 96–98.
<https://doi.org/10.1080/08998280.2022.2126928>

CELLULAR AND MOLECULAR BIOLOGY

ABSTRACTS, CASE REPORTS

Adeyanju, O., Olajuyin, A., Mandlem, V., Guo, X., & Qian, G. (2024). MARCH8 is a novel negative regulator of fibroblast to myofibroblast transition. 5th Annual East Texas Research Conference.

De Vera, C. J., Florova, G., Azghani, A. O., Girard, R., Emerine, R. L., Sarva, K., ... & Idell, S. (2024). Experimental Model of Chest Trauma: A Clinically Relevant Model of Retained Hemothorax Amenable to Testing Intrapleural Fibrinolytic Therapy. In A49. RESEARCH STUDIES AND CASE REPORTS IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE (pp. A1893-A1893). American Thoracic Society.

Emerine, R., Jacob, J., Akiode, O., Idell, S., Florova, G., & Komissarov, A. A. (2024). Short Linear Peptides Protect Fibrinolysis From Inactivation With Up To 8-fold PAI-1 In Vitro. In A69. PATHOGENESIS OF INTERSTITIAL AND PLEURAL DISEASES (pp. A2504-A2504). American Thoracic Society.

Florova, G., Azghani, A. O., Emerine, R. L., Jacob, J., Christudas, S., De Vera, C. J., ... & Komissarov, A. (2024). Treatment of Advanced Stage Empyema in a Rabbit Model with Two Injections of sctPA or scuPA. In B21. RESEARCH STUDIES IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE (pp. A3085-A3085). American Thoracic Society.

Frierson, B., Klegerman, M., Ranjpour, M., Emerine, R., Jacob, J., Christudas, S., ... & Komissarov, A. (2024). Production and Characterization of Alteplase and Urokinase Loaded Echogenic Liposomal Carriers for Emphyema. In C67. SCIENCE AND BEDSIDE BACTERIAL PNEUMONIA (pp. A6240-A6240). American Thoracic Society.

Kusampudi, S., Meganathan, V., Nsiah, P., & Boggaram, V. (2024). Peroxisome Proliferator-Activated Receptor Gamma (PPAR-γ) Activator 15d-PGJ2 Suppresses Organic Dust Induction of Lung Inflammatory Mediators Independently of PPAR-γ. In B75. POLLUTION AND LUNG HEALTH: MECHANISMS AND PATHOGENESIS (pp. A4414-A4414). American Thoracic Society.

Kusampudi, S., Meganathan, V., & Boggaram, V. (2024). Role of Endoplasmic Reticulum Stress in the Regulation of Induction of Lung Inflammatory Mediators by Organic Dust. In B75. POLLUTION AND LUNG HEALTH: MECHANISMS AND PATHOGENESIS (pp. A4413-A4413). American Thoracic Society.

Petkar, S., Olajuyin, A., Mandlem, V., Qian, G., & Guo, X. (2024). BRD4 Mediates TGF-β-induced Smooth Muscle Cell Differentiation. 5th Annual East Texas Research Conference.

Qian, G. (2024). A Novel Role of BRD4 in Regulating Mesothelial to Mesenchymal Transition. 5th Annual East Texas Research Conference.

Qian, G. (2024). Dedicator of cytokinesis 2 deficiency attenuates angiotensin II-induced aneurysm formation in mice. 5th Annual East Texas Research Conference.

Qian, G., Adeyanju, O., Cai, D., Chen, S., & Guo, X. (2024). Dedicator Of Cytokinesis 2 Mediates Vascular Endothelial Cell Inflammation to Promote Atherosclerosis. 5th Annual East Texas Research Conference.

CELLULAR AND MOLECULAR BIOLOGY

ABSTRACTS, CASE REPORTS

Qian, G., Adeyanju, O., Olajuyin, A., Mandlem, V., Adewumi, J., Hou, Y., ... & Guo, X. (2024). BRD4 Is a Novel Regulator of Pleural Mesothelial to Mesenchymal Transition. In B30. SCARRED FOR LIFE: TRANSLATIONAL RESEARCH IN INTERSTITIAL ABNORMALITIES AND LUNG FIBROSIS (pp. A3261-A3261). American Thoracic Society.

BOOKS, MONOGRAPHS

Parrish, N. M., Wengenack, N. L., Barker, A., Brown-Elliott, B. A., Cirillo, D. M., Harrington, S., Khare, R., Killian, S. B., Pfeltz, R., Richter, E., Rowlinson, M.-C., & Zelazny, A. M. (2023). Performance standards for susceptibility testing of mycobacteria, *Nocardia* spp., and other aerobic actinomycetes. In Performance standards for susceptibility testing of mycobacteria, *Nocardia* spp., and other aerobic actinomycetes. Clinical and Laboratory Standards Institute Supplement M24S, Wayne, PA.

CHAPTERS

Brown-Elliott, B. A., Cirillo, D.-M., Musser, K. A., & Rowlinson, M.-C. (2023). Susceptibility Test Methods: Mycobacteria, *Nocardia*, and Other Actinomycetes. In K. C. Carroll & M. A. Pfaller (Eds.), Manual of Clinical Microbiology (No. 13th; pp. 1548-1579). ASM Press. <https://www.clinmicronow.org/doi/10.1128/9781683670438.MCM.ch79>

Brown-Elliott, B. A., Harrington, S. M., Morimoto, K., & Wallace, R. J. (2023). Mycobacterium: Clinical and Laboratory Characteristics of Rapidly Growing Mycobacteria. In K. C. Carroll & M. A. Pfaller (Eds.), Manual of Clinical Microbiology (No. 13th; pp. 657-680). ASM Press. <https://www.clinmicronow.org/doi/10.1128/9781683670438.MCM.ch33>

Brown-Elliott, B. A., Zelazny, A. M., & Conville, P. S. (2023). *Nocardia*, *Rhodococcus*, *Gordonia*, *Actinomyces*, *Streptomyces*, and Other Aerobic Actinomycetes. In K. C. Carroll & M. A. Pfaller (Eds.), Manual of Clinical Microbiology (No. 13th; pp. 560-593). ASM Press. <https://www.clinmicronow.org/doi/epdf/10.1128/9781683670438.MCM.ch29>

Caulfield, A. J., Richter, E., Brown-Elliott, B. A., & Wengenack, N. L. (2023). Mycobacterium: Laboratory Characteristics of Slowly Growing Mycobacteria Other than Mycobacterium tuberculosis. In K. C. Carroll & M. A. Pfaller (Eds.), Manual of Clinical Microbiology (No. 13th; pp. 639-656). ASM Press. <https://www.clinmicronow.org/doi/10.1128/9781683670438.MCM.ch32>

CONFERENCE PROCEEDINGS

Katte, R. H., Han, Y., Hong, X., & Lu (2024), M. HIV-1 entry stoichiometry differs across strains, distribution of surface envelope (Env) glycoprotein trimer, and inter-protomer cooperativity in Env trimer. Biophysical Journal, 123(3), 66a.

CELLULAR AND MOLECULAR BIOLOGY

CONFERENCE PROCEEDINGS

Sauve, S. M., Lu, M., & Moradi, M. (2024). Atomic-level characterization of HIV-1 envelope glycoprotein conformational states using molecular dynamics simulations. Biophysical Journal, 123(3), 140a. Williamson, J., Lu, M., & Moradi, M. (2024). An implicit dye sampling technique for the study of conformational dynamics of SARS-CoV-2 spike protein variants. Biophysical Journal, 123(3), 139a.

JOURNAL ARTICLES

Ao, Y., Grover, J. R., Gifford, L., Han, Y., Zhong, G., Katte, R., Li, W., Bhattacharjee, R., Zhang, B., Sauve, S., Qin, W., Ghimire, D., Haque, M. A., Arthos, J., Moradi, M., Mothes, W., Lemke, E. A., Kwong, P. D., Melikyan, G. B., & Lu, M. (2024). Bioorthogonal click labeling of an amber-free HIV-1 provirus for in-virus single molecule imaging. Cell chemical biology, 31(3), 487-501.e7. <https://doi.org/10.1016/j.chembiol.2023.12.017>

Bohórquez, J. A., Adduri, S., Ansari, D., John, S., Florence, J., Adejare, O., Singh, G., Konduru, N. V., Jagannath, C., & Yi, G. (2024). A novel humanized mouse model for HIV and tuberculosis co-infection studies. Frontiers in immunology, 15, 1395018. <https://doi.org/10.3389/fimmu.2024.1395018>

Bohórquez, J. A., Jagannath, C., Xu, H., Wang, X., & Yi, G. (2024). T Cell Responses during Human Immunodeficiency Virus/Mycobacterium tuberculosis Coinfection. Vaccines, 12(8), 901. <https://doi.org/10.3390/vaccines12080901>

Brown-Elliott, B. A., Bush, G., Hughes, M. D., Rodriguez, E., Weikel, C. A., Min, S. B., & Wallace, R. J., Jr (2024). In vitro activity of gepotidacin and comparator antimicrobials against isolates of nontuberculous mycobacteria (NTM). Antimicrobial agents and chemotherapy, 68(6), e0168423. <https://doi.org/10.1128/aac.01684-23>

Choo, Y. Y., Sakai, T., Ikebe, R., Jeffers, A., Idell, S., Tucker, T. A., & Ikebe, M. (2024). Role of ZIP kinase in development of myofibroblast differentiation from HPMCs. American journal of physiology. Lung cellular and molecular physiology, 326(3), L353-L366. <https://doi.org/10.1152/ajplung.00251.2023>

Das, D. N., Puthusseri, B., Gopu, V., Krishnan, V., Bhagavath, A. K., Bolla, S., Saini, Y., Criner, G. J., Marchetti, N., Tang, H., Konduru, N. V., Fan, L., & Shetty, S. (2023). Caveolin-1-derived peptide attenuates cigarette smoke-induced airway and alveolar epithelial injury. American journal of physiology. Lung cellular and molecular physiology, 325(5), L689-L708. <https://doi.org/10.1152/ajplung.00178.2022>

Das, K., Keshava, S., Kolesnick, R., Pendurthi, U. R., & Rao, L. V. M. (2024). MicroRNA-10a enrichment in factor VIIa-released endothelial extracellular vesicles: potential mechanisms. Journal of thrombosis and haemostasis: JTH, 22(2), 441-454. <https://doi.org/10.1016/j.jtha.2023.10.021>

Das, K., Keshava, S., Mukherjee, T., & Rao, L. V. M. (2024). A potential mechanism for the cytoprotective effects of activated protein C-released endothelial extracellular vesicles. Blood, 143(16), 1670-1675. <https://doi.org/10.1182/blood.2023023518>

CELLULAR AND MOLECULAR BIOLOGY

JOURNAL ARTICLES

Das, K., Keshava, S., Mukherjee, T., Wang, J., Magisetty, J., Kolesnick, R., Pendurthi, U. R., & Rao, L. V. M. (2023). Factor VIIa releases phosphatidylserine-enriched extracellular vesicles from endothelial cells by activating acid sphingomyelinase. *Journal of thrombosis and haemostasis: JTH*, 21(12), 3414–3431. <https://doi.org/10.1016/j.jtha.2023.08.025>

Das, K., Paul, S., Ghosh, A., Gupta, S., Mukherjee, T., Shankar, P., Sharma, A., Keshava, S., Chauhan, S. C., Kashyap, V. K., & Parashar, D. (2023). Extracellular Vesicles in Triple-Negative Breast Cancer: Immune Regulation, Biomarkers, and Immunotherapeutic Potential. *Cancers*, 15(19), 4879. <https://doi.org/10.3390/cancers15194879>

De Vera, C. J., Emerine, R. L., Girard, R. A., Sarva, K., Jacob, J., Azghani, A. O., Florence, J. M., Cook, A., Norwood, S., Singh, K. P., Komissarov, A. A., Florova, G., & Idell, S. (2023). A Novel Rabbit Model of Retained Hemothorax with Pleural Organization. *International journal of molecular sciences*, 25(1), 470. <https://doi.org/10.3390/ijms25010470>

De Vera, C. J., Jacob, J., Sarva, K., Christudas, S., Emerine, R. L., Florence, J. M., Akiode, O., Gorthy, T. V., Tucker, T. A., Singh, K. P., Azghani, A. O., Komissarov, A. A., Florova, G., & Idell, S. (2024). Intrapleural Fibrinolytic Interventions for Retained Hemothoraces in Rabbits. *International journal of molecular sciences*, 25(16), 8778. <https://doi.org/10.3390/ijms25168778>

Glauser, K. G., Kelley, R. E., Leonard, W. J., Hendrix, J., Petri, S., Tong, E. I., Chan, Y. L., Lipner, E. M., Dawrs, S. N., & Honda, J. R. (2024). Common Features of Environmental Mycobacterium chelonae from Colorado Using Partial and Whole Genomic Sequence Analyses. *Current microbiology*, 81(2), 69. <https://doi.org/10.1007/s00284-023-03589-2>

Gross, J. E., Finklea, J. D., Caceres, S. M., Poch, K. R., Hasan, N. A., Jia, F., Epperson, L. E., Lipner, E. M., Vang, C. K., Honda, J. R., Strand, M. J., Nogueira de Moura, V. C., Daley, C. L., Strong, M., & Nick, J. A. (2024). Genomic epidemiology of Mycobacterium abscessus at an adult cystic fibrosis programme reveals low potential for healthcare-associated transmission. *ERJ open research*, 10(4), 00165-2024. <https://doi.org/10.1183/23120541.00165-2024>

Guo, X., Adeyanju, O., Olajuyin, A. M., Mandlem, V., Sunil, C., Adewumi, J., Huang, S., Tucker, T. A., Idell, S., & Qian, G. (2023). MARCH8 downregulation modulates profibrotic responses including myofibroblast differentiation. *American journal of physiology. Cell physiology*, 325(5), C1190–C1200. <https://doi.org/10.1152/ajpcell.00166.2023>

Hao, Q., Kundu, S., Shetty, S., & Tang, H. (2024). Runx3 Regulates CD8⁺ T Cell Local Expansion and CD43 Glycosylation in Mice by H1N1 Influenza A Virus Infection. *International journal of molecular sciences*, 25(8), 4220. <https://doi.org/10.3390/ijms25084220>

CELLULAR AND MOLECULAR BIOLOGY

JOURNAL ARTICLES

Katte, R. H., Ao, Y., Xu, W., Han, Y., Zhong, G., Ghimire, D., Florence, J., Tucker, T. A., & Lu, M. (2024). Differentiating Cell Entry Potentials of SARS-CoV-2 Omicron Subvariants on Human Lung Epithelium Cells. *Viruses*, 16(3), 391. <https://doi.org/10.3390/v16030391>

Keshava, S., Owens, S., Qin, W., Jeffers, A., Kyei, P., Komatsu, S., Kleam, J., Ikebe, M., Idell, S., & Tucker, T. A. (2024). The mTORC2/SGK1/NDRG1 Signaling Axis Is Critical for the Mesomesenchymal Transition of Pleural Mesothelial Cells and the Progression of Pleural Fibrosis. *American journal of respiratory cell and molecular biology*, 70(1), 50–62. <https://doi.org/10.1165/rcmb.2023-0131OC>

Khare, R., & Brown-Elliott, B. A. (2023). Culture, Identification, and Antimicrobial Susceptibility Testing of Pulmonary Nontuberculous Mycobacteria. *Clinics in chest medicine*, 44(4), 743–755. <https://doi.org/10.1016/j.ccm.2023.06.001>

Kostecki, M. X., Chan, Y. L., & Honda, J. R. (2024). Shower dehumidification to reduce nontuberculous mycobacteria aerosolization. *BMC research notes*, 17(1), 91. <https://doi.org/10.1186/s13104-024-06751-6>

Qian, G., Adeyanju, O., Cai, D., Tucker, T. A., Idell, S., Chen, S. Y., & Guo, X. (2024). DOCK2 Promotes Atherosclerosis by Mediating the Endothelial Cell Inflammatory Response. *The American journal of pathology*, 194(4), 599–611. <https://doi.org/10.1016/j.ajpath.2023.09.015>

Sakai, T., Choo, Y. Y., Mitsuhashi, S., Ikebe, R., Jeffers, A., Idell, S., Tucker, T. A., & Ikebe, M. (2024). Myocardin regulates fibronectin expression and secretion from human pleural mesothelial cells. *American journal of physiology. Lung cellular and molecular physiology*, 326(4), L419–L430. <https://doi.org/10.1152/ajplung.00271.2023>

Seidelman, J. L., Baker, A. W., Lewis, S. S., Warren, B. G., Barrett, A., Graves, A., King, C., Taylor, B., Engel, J., Bonnadonna, D., Milano, C., Wallace, R. J., Stiegel, M., Anderson, D. J., & Smith, B. A. (2024). A cluster of three extrapulmonary Mycobacterium abscessus infections linked to well-maintained water-based heater-cooler devices. *Infection control and hospital epidemiology*, 45(5), 644–650. <https://doi.org/10.1017/ice.2023.273>

Shallom, S. J., Tettelin, H., Chandrasekaran, P., Park, I. K., Agrawal, S., Arora, K., Sadzewicz, L., Milstone, A. M., Aitken, M. L., Brown-Elliott, B. A., Wallace, R. J., Jr, Sampaio, E. P., Niederweis, M., Olivier, K. N., Holland, S. M., & Zelazny, A. M. (2023). Evolution of Mycobacterium abscessus in the human lung: Cumulative mutations and genomic rearrangement of porin genes in patient isolates. *Virulence*, 14(1), 2215602. <https://doi.org/10.1080/21505594.2023.2215602>

Siegel, S. A. R., Griffith, D. E., Philley, J. V., Brown-Elliott, B. A., Brunton, A. E., Sullivan, P. E., Fuss, C., Strnad, L., Wallace, R. J., Jr, & Winthrop, K. L. (2023). Open-Label Trial of Amikacin Liposome Inhalation Suspension in Mycobacterium abscessus Lung Disease. *Chest*, 164(4), 846–859. <https://doi.org/10.1016/j.chest.2023.05.036>

CELLULAR AND MOLECULAR BIOLOGY

JOURNAL ARTICLES

Srivastava, R., Labani-Motlagh, A., Chen, A., Bohorquez, J. A., Qin, B., Dodda, M., Yang, F., Ansari, D., Patel, S., Ji, H., Trasti, S., Chao, Y., Patel, Y., Zou, H., Hu, B., & Yi, G. (2023). Development of a human glioblastoma model using humanized DRAG mice for immunotherapy. *Antibody therapeutics*, 6(4), 253–264.

<https://doi.org/10.1093/abt/tbad021>

Wengenack, N. L., Brown-Elliott, B. A., Parrish, N. M., Salfinger, M., Turenne, C. Y., Wallace, R. J., Jr, & Zelazny, A. M. (2024). This is giving me a complex: a practical attempt to streamline nontuberculous mycobacteria nomenclature for clinical purposes. *Journal of clinical microbiology*, 62(3), e0153123.

<https://doi.org/10.1128/jcm.01531-23>

Yang, F., Labani-Motlagh, A., Bohorquez, J. A., Moreira, J. D., Ansari, D., Patel, S., Spagnolo, F., Florence, J., Vankayalapati, A., Sakai, T., Sato, O., Ikebe, M., Vankayalapati, R., Dennehy, J. J., Samten, B., & Yi, G. (2024). Bacteriophage therapy for the treatment of *Mycobacterium tuberculosis* infections in humanized mice. *Communications biology* 7(1), 294. <https://doi.org/10.1038/s42003-024-06006-x>

Zhang, P., Gorman, J., Tsybovsky, Y., Lu, M., Liu, Q., Gopan, V., Singh, M., Lin, Y., Miao, H., Seo, Y., Kwon, A., Olia, A. S., Chuang, G. Y., Geng, H., Lai, Y. T., Zhou, T., Mascola, J. R., Mothes, W., Kwong, P. D., & Lusso, P. (2024). Design of soluble HIV-1 envelope trimers free of covalent gp120-gp41 bonds with prevalent native-like conformation. *Cell reports*, 43(8), 114518.

<https://doi.org/10.1016/j.celrep.2024.114518>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Guo, X. (2023). DOCK2 mediates vascular endothelial cell inflammation to promote atherosclerosis. 2023 CNAHA/ACRE/CAAC - Joint Symposium Committee.

Guo, X. (2023). Novel insights about dedicator of cytokinesis 2 in cardiovascular diseases. Research & Scholarship Showcase.

Guo, X. (2024). Novel insights about VSMC phenotypic switching in cardiovascular diseases. Faculty Seminar Department of Cellular & Molecular Biology, The University of Texas Health Science Center at Tyler.

PATENTS AND TECHNOLOGY TRANSFERS

Shetty, S. (2023). Compositions and methods for treatment of chronic lung diseases.

Shetty, S. (2023). Compositions and methods for treating infectious diseases (No. #63/309,728). Article #63/309,728.

Shetty, S. (2024). Compositions and methods for treating infectious diseases (US Provisional Patent Application #63/479,575). Article US Provisional Patent Application #63/479,575.

POSTERS

Neuenschwander, P. F. (2023). The Factor VIII α-Fragment: A Novel Product of Dysfunctional Coagulation in Lung Disease. SOM Research Showcase. Reviewer (Manuscript, Study Section).

Qian, G. (2024). Inhibition of S1PR2 attenuates idiopathic pulmonary fibrosis (IPF) through preventing the binding of S1PR2 with Dpr1 in bronchial epithelial cells. *Advanced Science*.

CELLULAR AND MOLECULAR BIOLOGY

POSTERS

Qian, G. (2024). Spatial regulation of substrate adhesion directs fibroblast morphotype and phenotype. *PNAS Nexus*.

GRANTS

Guo, X. RUNX3 in Vascular Wall Remodeling, National Institute of Health (NIH), (December 1, 2023), USD \$42,510.

Guo, X. (PI), Ikebe, M. (Co-PI), Qian, G. (Co-PI), Tang, H. (Co-PI). RUNX3 in Vascular Wall Remodeling, National Institute of Health (NIH), (January 5, 2024), USD \$454,500.

Honda, J.R. RAPID: Investigating risk for environmentally acquired nontuberculous mycobacterial lung infections in the wake of the Lahaina, Maui wildfire, National Science Foundation, (December 1, 2023), USD \$200,000.

Kant, S., Abdelaziz, M. (Co-PI). Oral short-course pan-TB regimen with optimal dose combination of Omadacycline, delamanid, and OPC-167832, University of Texas at Tyler, (September 1, 2023), USD \$30,000.

Kant, S., Amaro-Galvez, R. (Co-PI). PK/PD Optimized combination regimen for treatment of *Mycobacterium avium* pulmonary disease, Cystic Fibrosis Foundation, (November 1, 2023), USD \$149,764.

Kant, S., Jung, B. (Co-PI). Short course combination regimens for treatment of *Mycobacterium avium* pulmonary disease: a translational bench-to-bedside approach, National Institute of Health (NIH), (December 8, 2023), USD \$1,073,518.

Lella, V., Gaddam, S. (Co-PI). Factor VIIa-released extracellular vesicles: Their role in hemostasis and beyond, National Institute of Health (NIH), (March 15, 2024), USD \$610,927.

Lella, V. The Role of Gab2-MALT1-mediated cell signaling in venous thrombogenesis, National Institute of Health (NIH), (July 15, 2024), USD \$613,716.

Lu, M. The role of conformational dynamics of enveloped virus spike proteins in cell entry, National Institute of General Medical Sciences, (September 1, 2023), USD \$745,000.

Lu, M. Probing real-time conformational dynamics and allosteric cooperativity of the HIV-1 envelope glycoprotein during virus entry, National Institute of Health (NIH), (December 1, 2023), USD \$837,438.

Lu, M. Conformational events and allostery underlying Env antagonism, Duke Center for HIV Structural Biology, (April 1, 2024), USD \$175,000.

Qian, G., Guo, X. (Co-PI), Tucker, T. (Co-PI), Idell, S. (Co-PI). DOCK2 in pleural fibrosis, National Institute of Health (NIH), (March 1, 2024), USD \$331,722.

Tang, H. Role of Runx3 in the Regulation of Lung cDC2 by Influenza Infection, National Institute of Health (NIH), (June 14, 2024), USD \$201,150.

Venkata, K., Chung, W. (CoPI). Elucidating the role of extracellular vesicles in lead-induced neurotoxicity, University of Texas at Tyler, (September 1, 2023), USD \$28,375.

CELLULAR AND MOLECULAR BIOLOGY

GRANTS

Wang, Y. Effects of organic dust inhalation on neuroinflammation, UT Health Science Center, (November 15, 2023), USD \$4,838.



CHILDREN'S AND WOMEN'S HEALTH

JOURNAL ARTICLES

Jurgens, V., Librizzi, J., Shah, N., Bhansali, P., Balmer, D. F., & Beck, J. (2024). Pediatric Hospital Medicine Fellows' Perspectives on Autonomy Through Time. *Hospital pediatrics*, 14(8), 682-689.

<https://doi.org/10.1542/hpeds.2024-007855>

Kusma, J., Fu, Q., Kafle, M., Librizzi, J., Mirea, L., Riggins, H., Stone, D., Wall, J., & Gage, S. (2023). Effect of Viral Illness on Procalcitonin as a Predictor of Bacterial Infection in Febrile Infants. *Hospital pediatrics*, 13(11), 961-966.

<https://doi.org/10.1542/hpeds.2022-007070>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Smith, V. B. (2023). Texas Medicaid and Express Lane Eligibility Overview. Resident, Medical Student, Fellow Advocacy Day.

Smith, V. B., & Bornstein, S. (2023). Texas Legislative Recap for Primary Care Providers. Texas Primary Care Consortium Webinar.

Smith, V. B., & Gambill, L. (2023). Media for Modern Times. Texas Pediatric Society Annual Meeting.

Smith, V. B. (2024). Advocacy in Pediatrics: May you live a life you love. LEAD Resident Advocacy Conference.

Smith, V. B. (2024). Advocacy through Op-Ed writing. American Academy of Pediatrics Child Welfare Policy Learning Collaborative.

Smith, V. B. (2024). CATCH: Community Access to Children's Health. Rome Visiting Professorship.

Smith, V. B. (2024). Reemergence of vaccine preventable diseases: A Local Health Authority Perspective. UT Tyler Preventive, Occupational, and Environmental Medicine Conference.

Smith, V. B., Kolhatkar, G., Petite, A., & Franco, F. (2024). Fostering Justice: Pediatrician Advocacy in Child Welfare and Juvenile Justice Reform. AAP Advocacy Conference.

Smith, V. B., Thompson, K., Dykes, C., & Nehme, E. (2024). Partners in Health: Implementation of a simple, web-based tool to connect primary care patients with food resources. East Texas Research Conference.

Smith, V. B., & Travis, C. (2024). Pediatric Legislative Advocacy in Texas. UT Tyler Pediatric Grand Rounds.

POSTERS

Borch-Christensen, B., Thakkar, N., Fox, L., Librizzi, J., Patel, R., & Gage, S. (2024). Pediatric hospitalist comfort with teaching methods: A peer observation study. Society of Hospital Medicine Conference.

Patel, R., Fox, L., Thakkar, N., Gage, S., & Librizzi, J. (2024). Creating a learning environment on family-centered rounds: A peer observation study of pediatric hospitalists. Society of Hospital Medicine Conference.

Patel, R., Fox, L., Thakkar, N., Gage, S., & Librizzi, J. (2024). Creating a learning environment on family-centered rounds: A peer observation study of pediatric hospitalists. Pediatric Academic Society Conference.

CHILDREN'S AND WOMEN'S HEALTH

POSTERS

Thakkar, N., Fox, L., Librizzi, J., Patel, R., & Gage, S. (2024). Pediatric hospitalists as educators: Teaching methods on family-centered rounds. Society of Hospital Medicine Conference.



EPIDEMIOLOGY AND BIOSTATISTICS

ABSTRACTS, CASE REPORTS

Sudan, S. K., Sharma, A., Vikramdeo, K. S., Davis, W., Nelson, C., Singh, K., ... & Singh, S. (2024). Association of obesity with the early onset and diagnosis of triple negative breast cancer in black women. *Cancer Research*, 84(6_Supplement), 812-812.

CHAPTERS

Shanmugam, R., & Singh, K. P. (2023). Transmissibility and Death Index from Pandemic COVID-19 Among Nations Across Continents. In *Healthcare Policy, Innovation and Digitalization: Contemporary Strategy and Approaches* (pp. 71-104). Singapore: Springer Nature Singapore.

CONFERENCE PROCEEDINGS

Keyloun, J. W., Le, T. D., Moffatt, L. T., Orfeo, T., McLawhorn, M. M., Bravo, M. C., Tejiram, S., SYSCOT Study Group, Shupp, J. W., & Pusateri, A. E. (2024). Comparison of Rapid-, Kaolin-, and Native-TEG Parameters in Burn Patient Cohorts with Acute Burn-induced Coagulopathy and Abnormal Fibrinolytic Function. *Journal of burn care & research: official publication of the American Burn Association*, 45(1), 70-79.
<https://doi.org/10.1093/jbcr/irad152>

Li, Y., Yang, Z., Nunn, M., Le, T., Simovic, M., Liu, B., ... & Cancio, L. (2023). 227 Nomacopan as an anti-shock drug for pre-hospital treatment of traumatic hemorrhage through switching the injury phenotype to survival phenotype. *Immunobiology*, 228(5), 152677.
<https://doi.org/10.1016/j.imbio.2023.152677>

JOURNAL ARTICLES

Cook, A., Swindall, R., Spencer, K., Wadle, C., Cage, S. A., Mohiuddin, M., Desai, Y., & Norwood, S. (2023). Hospitalization and readmission after single-level fall: a population-based sample. *Injury epidemiology*, 10(1), 49.
<https://doi.org/10.1186/s40621-023-00463-4>

De Vera, C. J., Emerine, R. L., Girard, R. A., Sarva, K., Jacob, J., Azghani, A. O., Florence, J. M., Cook, A., Norwood, S., Singh, K. P., Komissarov, A. A., Florova, G., & Idell, S. (2023). A Novel Rabbit Model of Retained Hemothorax with Pleural Organization. *International journal of molecular sciences*, 25(1), 470.
<https://doi.org/10.3390/ijms25010470>

De Vera, C. J., Jacob, J., Sarva, K., Christudas, S., Emerine, R. L., Florence, J. M., Akiode, O., Gorthy, T. V., Tucker, T. A., Singh, K. P., Azghani, A. O., Komissarov, A. A., Florova, G., & Idell, S. (2024). Intrapleural Fibrinolytic Interventions for Retained Hemothoraces in Rabbits. *International journal of molecular sciences*, 25(16), 8778.
<https://doi.org/10.3390/ijms25168778>

Edwards, T. H., Venn, E. C., Le, T. D., Grantham, L. E., 2nd, Hogen, T., Ford, R., Ewer, N., Gunville, R., Carroll, C., Taylor, A., & Hoareau, G. L. (2024). Comparison of shelf-stable and conventional resuscitation products in a canine model of hemorrhagic shock. *The journal of trauma and acute care surgery*, 97(2S Suppl 1), S105-S112.
<https://doi.org/10.1097/TA.0000000000004332>

EPIDEMIOLOGY AND BIOSTATISTICS

JOURNAL ARTICLES

El Ghali, A., Morrisette, T., Alosaimy, S., Lucas, K., Tupayachi-Ortiz, M. G., Vemula, R., Wadle, C., Philley, J. V., Mejia-Chew, C., Hamad, Y., Stevens, R. W., Zeuli, J. D., Webb, A. J., Fiske, C. T., Simonyan, A., Cimino, C. L., Mammadova, M., Umana, V. E., Hasbun, R., Butt, S., ... Rybak, M. J. (2023). Long-term evaluation of clinical success and safety of omadacycline in nontuberculous mycobacteria infections: a retrospective, multicenter cohort of real-world health outcomes. *Antimicrobial agents and chemotherapy*, 67(10), e0082423. <https://doi.org/10.1128/aac.00824-23>

Elliott, K. S., Nabulsi, E. H., Sims-Rhodes, N., Dubre, V., Barena, E., Yuen, N., Morris, M., Sass, S. M., Kennedy, B., & Singh, K. P. (2024). Modality and terminology changes for behavioral health service delivery during the COVID-19 pandemic: a systematic review. *Frontiers in psychiatry*, 14, 1265087. <https://doi.org/10.3389/fpsy.2023.1265087>

Flinn, A. N., Kemp Bohan, P. M., Rauschendorfer, C., Le, T. D., & Rizzo, J. A. (2023). Inhalation Injury Severity Score on Admission Predicts Overall Survival in Burn Patients. *Journal of burn care & research: official publication of the American Burn Association*, 44(6), 1273-1277. <https://doi.org/10.1093/jbcr/irad083>

Keyloun, J. W., Le, T. D., Moffatt, L. T., Orfeo, T., McLawhorn, M. M., Bravo, M. C., Tejiram, S., SYSCOT Study Group, Shupp, J. W., & Pusateri, A. E. (2024). Comparison of Rapid-, Kaolin-, and Native-TEG Parameters in Burn Patient Cohorts With Acute Burn-induced Coagulopathy and Abnormal Fibrinolytic Function. *Journal of burn care & research: official publication of the American Burn Association*, 45(1), 70-79. <https://doi.org/10.1093/jbcr/irad152>

Martini, W. Z., Xia, H., Le, T. D., & Cap, A. P. (2023). Assessment of ethynylestradiol-3-sulfate on coagulation, metabolism, and survival in pigs with traumatic hemorrhage. *The journal of trauma and acute care surgery*, 95(5), 746-754. <https://doi.org/10.1097/TA.00000000000004031>

Njororai, F., Nyaranga, K. C., Cholo, W., Amulla, W., & Ndetan, H. (2023). Correlates of COVID-19 Vaccine Acceptance and Hesitancy in Rural Communities in Western Kenya. *Vaccines*, 11(10), 1516. <https://doi.org/10.3390/vaccines11101516>

Shanmugam, R., Tabatabai, M., Wilus, D., & Singh, K. P. (2024). The bounds of meta-analytics and an alternative method. *Epidemiology and health*, 46, e2024016. <https://doi.org/10.4178/epih.e2024016>

EPIDEMIOLOGY AND BIOSTATISTICS

JOURNAL ARTICLES

Sudan, S. K., Sharma, A., Vikramdeo, K. S., Davis, W., Deshmukh, S. K., Poosarla, T., Holliday, N. P., Prodduturvar, P., Nelson, C., Singh, K. P., Singh, A. P., & Singh, S. (2024). Obesity and Early-Onset Breast Cancer and Specific Molecular Subtype Diagnosis in Black and White Women: NIMHD Social Epigenomics Program. *JAMA network open*, 7(7), e2421846. <https://doi.org/10.1001/jamanetworkopen.2024.21846>

Volpi, J., Ndetan, H., Cage, S. A., Warner, B., Cook, A., Warner, L., & Wadle, C. (2024). Effects of three different recovery methods in decreasing blood lactate in collegiate baseball pitchers post pitching. *Journal of Sports Medicine and Allied Health Sciences: Official Journal of the Ohio Athletic Trainers Association*, 9(3), 2. <https://doi.org/10.25035/jsmahs.09.03.02>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Ndetan, H. T. (2023). Asking a Clinical Research Question and Systematically Searching for Evidence. The University of Nebraska Medical Center, Pediatric Emergency Medicine Fellowship Research Educational Series.

Ndetan, H. T. (2023). Innovations and Excellence in the Classroom. Advancing Teaching & Learning Series Panel with Academy of Distinguished Teachers, UT Tyler.

Ndetan, H. T. (2023). Tricks of the Trade: Essentials of Empirical Research Literature. The University of Nebraska Medical Center, Pediatric Emergency Medicine Fellowship Research Educational Series.

Ndetan, H. T. (2024). Critical Appraisal of Scientific Literature. The University of Nebraska Medical Center, Pediatric Emergency Medicine Fellowship Research Educational Series.

GRANTS

Cook, A. AA-CONVENE (AIM-AHEAD – impaCt Of gun Violence Exposure oN hEalth), National Institute of Health (NIH), (September 17, 2023), USD \$87,383.

Cook, A. Texas Trauma System Performance Improvement Activity to Identify and Remediate Delays in the Transfer of Critically Injured Patients, UT Health Science Center at San Antonio, (April 1, 2024), USD \$80,930.

Le, T.D., Singh, K. (Co-PI). Investigating Trends and Risk Factors Associated with Traumatic and Chemical Injuries Among U.S. Service Members, 2001-2023, UT Health Science Center at San Antonio, (April 1, 2024), USD \$100,001.



FAMILY MEDICINE

ABSTRACTS, CASE REPORTS

Evans, J., & Peebles, R. L. (2023). POCUS for tennis leg: Hocus pocus, or can it save a life? Presented at AMSSM Annual Meeting.

Evans, J., Peebles, R. L., & Galbraith, R. M. (2024). Hip-itis: Is there more to it? Presented at AMSSM Annual Meeting.

French, R., & Peebles, R. L. (2023). The curious case of the missing muscle. Presented at AMSSM Annual Meeting.

Hofweber, J., Peebles, R. L., & Galbraith, R. M. (2024). Pitch Imperfect. Presented at AMSSM Annual Meeting.

Peebles, R. L. (2023). The hip bone's connected to the – wait what is that? Persistent post-traumatic pain. Presented at AMSSM Annual Meeting.

Stembridge, B., & Peebles, R. L. (2024). The force is no longer with you. Presented at AMSSM Annual Meeting.

Wang, A., Galbraith, R. M., & Peebles, R. L. (2024). Thunder Thighs. Presented at AMSSM Annual Meeting.

JOURNAL ARTICLES

Cage, S. A., Peebles, R. L., Volpi, J. D., Trail, L., & Warner, B. J. (2024). The effects of dry cupping therapy on touch pressure threshold in collegiate baseball players. *Clinical Practice in Athletic Training*, 6, 7.

Gallegos, D. M., Jacobsen, A. P., Peebles, R. L., Galbraith, R. M., Warner, B. J., & Cage, S. A. (2024). Acute management of an abdominal cavity perforation in a collegiate baseball pitcher: A case report. *Clinical Practice in Athletic Training*, 6, 8.



INTERNAL MEDICINE

CHAPTERS

Golden, E. P., & Vernino, S. (2024). Paraneoplastic autonomic neuropathies and GI dysmotility. In *Handbook of Clinical Neurology* (Vol. 200, pp. 275-282). Elsevier. <https://doi.org/10.1016/B978-0-12-823912-4.00005-0>

JOURNAL ARTICLES

Akkerman, O. W., Dijkwel, R. D. C., Kerstjens, H. A. M., van der Werf, T. S., Srivastava, S., Sturkenboom, M. G. G., & Bolhuis, M. S. (2023). Isoniazid and rifampicin exposure during treatment in drug-susceptible TB. *The international journal of tuberculosis and lung disease: the official journal of the International Union against Tuberculosis and Lung Disease*, 27(10), 772-777. <https://doi.org/10.5588/ijtld.22.0698>

Ascher, S. B., Berry, J. D., Katz, R., de Lemos, J. A., Bansal, N., Garimella, P. S., Hallan, S. I., Wettersten, N., Jotwani, V. K., Killeen, A. A., Ix, J. H., & Shlipak, M. G. (2024). Changes in Natriuretic Peptide Levels and Subsequent Kidney Function Decline in SPRINT. *American journal of kidney diseases : the official journal of the National Kidney Foundation*, 83(5), 615-623.e1. <https://doi.org/10.1053/j.ajkd.2023.09.018>

Bansal, N., Katz, R., Seliger, S., deFilippi, C., Wettersten, N., de Lemos, J. A., Christenson, R., Killeen, A. A., Berry, J. D., Shlipak, M. G., & Ix, J. H. (2024). Variation of NT-proBNP and High-Sensitivity Cardiac Troponin T Across Levels of Estimated Glomerular Filtration Rate: The SPRINT Trial. *Circulation*, 149(12), 967-969. <https://doi.org/10.1161/CIRCULATIONAHA.123.066377>

Barton, G. P., Chandra, A., Sanchez-Solano, N., Berry, J. D., & Goss, K. N. (2024). Smaller Left Ventricular Size But Preserved Function in Adolescents and Adults Born Preterm. *Journal of the American Heart Association*, 13(18), e035529. <https://doi.org/10.1161/JAHA.124.035529>

Boorgula, G. D., Gumbo, T., Singh, S., McShane, P. J., Philley, J. V., & Srivastava, S. (2024). Omadacycline drug susceptibility testing for non-tuberculous mycobacteria using oxyrase to overcome challenges with drug degradation. *Tuberculosis (Edinburgh, Scotland)*, 147, 102519. <https://doi.org/10.1016/j.tube.2024.102519>

Deshpande, D., Magombedze, G., Boorgula, G. D., Chapagain, M., Srivastava, S., & Gumbo, T. (2024). Ceftriaxone Efficacy for Mycobacterium avium Complex Lung Disease in the Hollow Fiber and Translation to Sustained Sputum Culture Conversion in Patients. *The Journal of infectious diseases*, 230(2), e230-e240. <https://doi.org/10.1093/infdis/jiad545>

Deshpande, D., Magombedze, G., Srivastava, S., & Gumbo, T. (2024). Antibacterial action of penicillin against Mycobacterium avium complex. *IJTLD open*, 1(8), 362-368. <https://doi.org/10.5588/ijtldopen.24.0238>

Deshpande, D., Srivastava, S., & Gumbo, T. (2024). Ertapenem's therapeutic potential for Mycobacterium avium lung disease in the hollow fibre model. *International journal of antimicrobial agents*, 64(3), 107204. <https://doi.org/10.1016/j.ijantimicag.2024.107204>

INTERNAL MEDICINE

JOURNAL ARTICLES

Farrell, S. W., Leonard, D., Li, Q., Barlow, C. E., Shuval, K., Berry, J. D., Pavlovic, A., & DeFina, L. F. (2024). Association between baseline levels of muscular strength and risk of stroke in later life: The Cooper Center Longitudinal Study. *Journal of sport and health science*, 13(5), 642–649.

<https://doi.org/10.1016/j.jshs.2023.10.003>

Gafni, T., Weinstein, G., Leonard, D., Barlow, C. E., DeFina, L. F., Pettee Gabriel, K., Berry, J. D., & Shuval, K. (2023). Independent and joint associations of cardiorespiratory fitness and BMI with dementia risk: the Cooper Center Longitudinal Study. *BMJ open*, 13(12), e075571. <https://doi.org/10.1136/bmjopen-2023-075571>

Giacona, J. M., Afridi, A., Bezan Petric, U., Johnson, T., Pastor, J., Ren, J., Sandon, L., Malloy, C., Pandey, A., Shah, A., Berry, J. D., Moe, O. W., & Vongpatanasin, W. (2024). Association between dietary phosphate intake and skeletal muscle energetics in adults without cardiovascular disease. *Journal of applied physiology (Bethesda, Md.: 1985)*, 136(4), 1007–1014. <https://doi.org/10.1152/japplphysiol.00818.2023>

Hamid, A., Yimer, W. K., Oshunbade, A. A., Khan, M. S., Kamimura, D., Kipchumba, R. K., Pandey, A., Clark, D., 3rd, Mentz, R. J., Fox, E. R., Berry, J. D., Stacey, R. B., Shah, A., Correa, A., Virani, S. S., Butler, J., & Hall, M. E. (2024). Trajectory of C-Reactive Protein and Incident Heart Failure in Black Adults: The Jackson Heart Study. *Circulation. Heart failure*, 17(8), e011199. <https://doi.org/10.1161/CIRCHEARTFAILURE.123.011199>

Hendren, N. S., De Lemos, J. A., Berry, J. D., Kozlitina, J., Saelices, L., Ji, A. X., Shao, Z., Liu, C. F., Garg, S., Farr, M. A., Drazner, M. H., Tang, W. H. W., & Grodin, J. L. (2024). Circulating transthyretin and retinol binding protein 4 levels among middle-age V122I TTR carriers in the general population. *Amyloid : the international journal of experimental and clinical investigation : the official journal of the International Society of Amyloidosis*, 31(2), 124–131.

<https://doi.org/10.1080/13506129.2024.2322479>

Jia, X., Nambi, V., Berry, J. D., Dalmacy, D., Ascher, S. B., Taylor, A. A., Hoogeveen, R. C., de Lemos, J. A., & Ballantyne, C. M. (2024). High-Sensitivity Cardiac Troponins I and T and Cardiovascular Outcomes: Findings from the Systolic Blood Pressure Intervention Trial (SPRINT). *Clinical chemistry*, 70(2), 414–424. <https://doi.org/10.1093/clinchem/hvad209>

Kerpel, A., Davenport, E., Proskovec, A. L., Xi, Y., Berry, J. D., Yetkin, Z., Maldjian, J., & Yu, F. F. (2024). Antidepressant-related microstructural changes in the external capsule. *Brain imaging and behavior*, 18(5), 1044–1051. <https://doi.org/10.1007/s11682-024-00891-w>

McShane, P. J., Brunton, A. E., Choate, R., Marmor, M., Richards, C. J., Solomon, G. M., Maselli, D. J., Swenson, C., Aksamit, T. R., & Metersky, M. L. (2024). The Impact of Tobacco Smoking in Bronchiectasis: Data from the U.S. Bronchiectasis and Nontuberculous Mycobacteria Research Registry. *American journal of respiratory and critical care medicine*, 210(1), 128–130. <https://doi.org/10.1164/rccm.202402-0466RL>

INTERNAL MEDICINE

JOURNAL ARTICLES

Salinas, M., Yazdani, U., Oblack, A., McDaniels, B., Ahmed, N., Haque, B., Pouratian, N., & Chitnis, S. (2024). Know DBS: patient perceptions and knowledge of deep brain stimulation in Parkinson's disease.

Therapeutic advances in neurological disorders, 17, 17562864241233038.

<https://doi.org/10.1177/17562864241233038>

Shuval, K., Leonard, D., DeFina, L. F., Barlow, C. E., Berry, J. D., Turlington, W. M., Pavlovic, A., Radford, N. B., Gabriel, K. P., Khera, A., & Levine, B. D. (2024). Physical Activity and Progression of Coronary Artery Calcification in Men and Women. *JAMA cardiology*, 9(7), 659–666.

<https://doi.org/10.1001/jamacardio.2024.0759>

Singh, S., Gumbo, T., Alffenaar, J. W., Boorgula, G. D., Shankar, P., Thomas, T. A., Dheda, K., Malinga, L., Raj, P., Aryal, S., & Srivastava, S. (2023). Meropenem-vaborbactam restoration of first-line drug efficacy and comparison of meropenem-vaborbactam-moxifloxacin versus BPaL MDR-TB regimen. *International journal of antimicrobial agents*, 62(6), 106968.

<https://doi.org/10.1016/j.ijantimicag.2023.106968>

Singh, S., & Srivastava, S. (2024). It takes two to tango! Stability of drugs affecting efficacy against Mycobacterium abscessus. *International Journal of Antimicrobial Agents*, 63, 107060.

<https://doi.org/10.1016/j.ijantimicag.2023.107060>

Singh, S., Boorgula, G. D., Aryal, S., Philley, J. V., Gumbo, T., & Srivastava, S. (2024).

Sarecycline pharmacokinetics/pharmacodynamics in the hollow-fibre model of Mycobacterium avium complex: so near and yet so far. *The Journal of antimicrobial chemotherapy*, 79(1), 96–99. <https://doi.org/10.1093/jac/dkad352>

Singh, S., Gumbo, T., Boorgula, G. D., Thomas, T. A., Philley, J. V., & Srivastava, S. (2024).

Omadacycline pharmacokinetics/pharmacodynamics and efficacy against multidrug-resistant Mycobacterium tuberculosis in the hollow fiber system model. *Antimicrobial agents and chemotherapy*, 68(2), e0108023.

<https://doi.org/10.1128/aac.01080-23>

Smith, C., Berry, J. D., Scherzer, R., de Lemos, J. A., Nambi, V., Ballantyne, C. M., Kravitz, R. L., Killeen, A. A., Ix, J. H., Shlipak, M. G., & Ascher, S. B. (2024). Intensive Blood Pressure Lowering in Individuals With Low Diastolic Blood Pressure and Elevated Troponin Levels in SPRINT. *Journal of the American Heart Association*, 13(6), e032493.

<https://doi.org/10.1161/JAHA.123.032493>

Subramanian, V., Keshvani, N., Segar, M. W., Kondamudi, N. J., Chandra, A., Maddineni, B., Matulevicius, S. A., Michos, E. D., Lima, J. A. C., Berry, J. D., & Pandey, A. (2024). Association of global longitudinal strain by feature tracking cardiac magnetic resonance imaging with adverse outcomes among community-dwelling adults without cardiovascular disease: The Dallas Heart Study. *European journal of heart failure*, 26(2), 208–215.

<https://doi.org/10.1002/ehhf.3158>

INTERNAL MEDICINE

JOURNAL ARTICLES

Venishetty, N., Berry, J. D., de Lemos, J. A., Wu, E., Lee, M., Drawz, P. E., Nambi, V., Ballantyne, C. M., Killeen, A. A., Ix, J. H., Shlipak, M. G., & Ascher, S. B. (2024). Associations of Ambulatory Blood Pressure Measurements With High-Sensitivity Troponin and Natriuretic Peptide Levels in SPRINT. *American journal of hypertension*, 37(8), 571-579. <https://doi.org/10.1093/ajh/hpae035>

Vigen, R., Ayers, C., Berry, J., Rohatgi, A., Nambi, V., Ballantyne, C. M., Omland, T., de Filippi, C. R., & de Lemos, J. (2024). Individual and Joint Associations of High-Sensitivity Troponin I and High-Sensitivity Troponin T with Cardiac Phenotypes and Outcomes in the General Population: An Analysis From the Dallas Heart Study. *Journal of the American Heart Association*, 13(13), e034549. <https://doi.org/10.1161/JAHA.124.034549>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Fox, J. G. (2023). Planning and Managing the Key Residency and Fellowship Annual Cycle of Activities. UT Tyler Health Science Center - New Program Director Boot Camp.

Fox, J. G. (2024). Update on COPD Management in 2024: Selecting and Optimizing Medical and Procedural Therapies for Your Patients. UT Health East Texas Grand Rounds.

Hennigan, A. (2023). Outpatient stroke work up and prevention. Grand Rounds.

Hennigan, A., Beck Dallaghan, G. L., Lucchesi, P. A., & Tuvdendorj, D. R. (2024). Prewrite: How much is enough? SGEA.

GRANTS

Berry, J.D., Byrd, T. (Co-PI), Elliott, K. (Co-PI), Escareno, J. (Co-PI), Tiruneh, Y. (Co-PI). Center for Clinical and Translational Sciences (CCTS 2024 - 2031) C2 Budget, National Institute of Health (NIH), (July 24, 2024), USD \$ 53,639.

Berry, J.D., Cook, A. (Co-PI). Center for Clinical and Translational Sciences (CCTS 2024 - 2031) Project D1, National Institute of Health (NIH), (July 24, 2024), USD \$122,184.

McShane, P.J. CRISPR detection of circulating cell-free Mycobacterium avium complex (MAC) DNA for rapid diagnosis and monitoring of MAC pulmonary disease, National Institute of Health (NIH), (March 19, 2024), USD \$ 114,340.



MEDICAL EDUCATION

ABSTRACTS, CASE REPORTS

Abron, G. (2023). Case Study: UT Tyler School of Medicine from Admissions to Graduation: Using Admission Student Characteristics to Map Resources. *Holistic Student Support Innovations*.

CONFERENCE PROCEEDINGS

Pearl, J. M. (2024). Invited Judge Surgical Competition- North Texas Chapter of the ACS Annual Conference.

JOURNAL ARTICLES

Bryce, C. I., Abron, G. A., Lynn, A. M., Willis, B. C., & Nakae, S. (2023). Emphasizing Geographical Ties in Holistic Admission: A Community-Oriented School of Medicine Approach. *Academic Medicine*, 98(11S), S170-S171. <https://doi.org/10.1097/ACM.00000000000005380>

Bryce, C. I., & Fraser, A. M. (2023). Hope, context, and equity: existing shortcomings and implications for future research on hope in children. *Child Indicators Research*, 16(5), 1971-1985. <https://doi.org/10.1007/s12187-023-10052-y>

Bryce, C. I., Goetzke, K., O'Brien, V., Espinoza, P., & Tomasulo, D. (2024). Promoting hope: Preliminary investigation into a college-level hope curriculum. *Journal of American College Health*, 1-7. Bryce, C. I., Goetzke, K., O'Brien, V., Espinoza, P., & Tomasulo, D. (2024). Promoting hope: Preliminary investigation into a college-level hope curriculum. *The Journal of American College Health*. <https://doi.org/10.1080/07448481.2024.2317189>

McCallinhart, P., Lucchesi, P., & Trask, A. (2024). Smooth Muscle Cofilin Confers Elasticity to Coronary Resistance Microvessels in Diabetes. *Physiology*, 39(S1), 908. <https://doi.org/10.1152/physiol.2024.39.S1.908>

McLean, L., Bryce, C., & Johnson, B. (2023). Describing Teachers' Well-Being Prior to and 18 Months After COVID-19 School Closures, with a Focus on Early-Career Teachers and Teachers of Color. *Sage Open*, 13(4). <https://doi.org/10.1177/215824440231217872>

Morgan, H. K., Baecher-Lind, L., Bhargava, R., Cox, S., Everett, E., Fleming, A., ... & Sims, S. M. (2023). Obstetrics and gynecology clerkship directors' experiences advising residency applicants. *AJOG Global Reports*, 3(4). <https://doi.org/10.1016/j.xagr.2023.100268>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Abron, G. (2023). Building Your Brand and Career Mobility: Gisele's Journey and Insights. Texas Association of Collegiate Registrars and Admissions Officers Annual Meeting.

Abron, G., & Lynn, A. (2023). Mission centered Holistic Admissions: The Case of a Rural Medical School in East Texas. 2023 American Medical Association ChangeMedEd Conference.

Bryce, C. I., Abron, G., Lynn, A. M., Willis, B. C., & Nakae, S. (2023). Emphasizing geographical ties in holistic admission: A community-oriented school of medicine approach. AAMC Learn Serve Lead Conference.

MEDICAL EDUCATION

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Cooley, A. C. (2023). Development and Implementation of an Embedded Clinical Assessment Team in Medical Education. American Medical Association Change MedEd 2023.

Cooley, A. C. (2023). It's Not Magic, It's Math: Demystifying ChatGPT. UTT SOM Grand Rounds.

Cox, S. M. (2023). Is a department of medical education an essential requirement for medical schools? AAMC Learn Serve Lead.

Cox, S. M. (2024). Career Advancement. Association of Professors of Gynecology and Obstetrics Clerkship Directors School.

Fuentes, D., & Griffin, D. (2024). Aligning Programmatic Evaluation Practices (PEP) with Team-Based Learning Implementation and Revision Processes. Team Based Learning Collaborative (TBLC) Annual Conference 2024.

Griffin, D., Carter, S., & Kamel-ElSayed, S. (2023). Cultivating Cultural Awareness in Education. Academy of Professionalism in Health Care (APHC) 2023 Reimagining Professionalism: Using Cultural and Generational Lenses.

Griffin, D. (2024). Medical School's Gateway to the Life Sciences. BIONTX: Best Practices for Building a Life Science Entrepreneurial Ecosystem.

Hennigan, A., Lucchesi, P. A., Beck Dallaghan, G. L., & Tuvdendorj, D. R. (2024). How Much Pre-work is Enough? Can we crack the code of how much and the type of pre-work is appropriate for a flipped-classroom session? AAMC Southern Group on Educational Affairs (SGEA) 2024.

Jim, C., Campusano, J., Tadal, S., & Niño, D. F. (2023). Leveraging Educational Technology in Physiology Education. Pan-American (PANAM) Physiological Sciences 2023 Conference.

Lewis, K. L. (2024). Lessons Learned from Recruiting Simulated Patients for a New Program in a Rural Area. Association of Standardized Patient Educators (ASPE).

Lewis, K. L., Bohnert, C., Beate, B., Melih, E., Cathy, S., Tanya, T., Ameila, W., & Marsha, Y. (2024). Applying the ASPE Standards of Best Practice in our daily, scholarly, and research work. Association of Standardized Patient Educators.

Lockhart, W., Pearl, J. M., Martinez-Diaz, C., Racataian-Gavan, R. A., & Cooley, A. C. (2023). A 21st-century Mixed-Methodology approach to teaching the body: How Plastinate Models, Synthetic Bodies, VR, and Ultrasound combine to make a well-rounded student. International Meeting for Simulation in Healthcare.

Lockhart, W., Pearl, J. M., & Martinez-Diaz, C. (2024). Use of Clinical Vignettes for Self-Directed Anatomy Instruction in Medical School. International Meeting for Simulation in Healthcare.

MEDICAL EDUCATION

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Niño, D. F. (2023). Are You Providing Your Learners with What They Need to Succeed in Your Flipped Classroom?. 2023 Innovations in Medical Education.

Niño, D. F. (2023). Essential Framework for Teaching Homeostasis. A Clinical Deep Dive Webinar, Center for Physiology Education Homeostasis Month of Learning.

Pearl, J. M. (2023). All Things Heart. TJC Respiratory Care Conference.

Pearl, J. M. (2023). "Pulmonary Assessment, Diagnosis, Management". TJC Respiratory Care Conference.

Pearl, J. M. (2024). A 21st century mixed methodology approach to teaching the body Use of Clinical Vignettes for Self-Directed Anatomy Instructor in Medical School. Shine Academy.

Pearl, J. M. (2024). Use of Clinical Vignettes for Self-Directed Anatomy Instruction in Medical School. Annual Meeting of the IMSH Society for Simulation in Healthcare.

Pearson, D. (2023). Faculty as Dungeon Masters: Their Role in the Biochemistry Classroom. Association of Biochemistry Educators Conference.

Stone, K., Bryce, C. I., Holbrook, D. A., Carlson, A., Dickey, D., Tapia, C., & Noah, J. P. (2024). Crafting student success: Diverse strategies in academic houses and learning communities. 2024 AAMC Group of Student Affairs.

Wallace Gay, T., & Racataian-Gavan, R. A. (2023). IPE and Facilitating Interprofessional Teams: Empowering Medical Residents and Mentors and Preceptors. UT Health Graduate Medical Education.

POSTERS

Abrón, G., & Lynn, A. (2024). Lessons Learned Implementing a Mission-Aligned Holistic Admissions Strategy in a New Medical School. Association of American Medical Colleges (AAMC), Group of Student Affairs (GSA), Careers in Medicine (CiM), Organization of Student Representatives (OSR) National Meeting.

Holbrook, D. A., Bryce, C. I., & Stone, K. (2023). The importance of academic house composition: Mentoring without upperclassmen. AAMC Learn Serve Lead.

Holbrook, D. A., Bryce, C. I., & Stone, K. (2024). Lessons learned: Building a medical school coaching program. AAMC Group of Student Affairs.

Jim, C., Campusano, J., Tadal, S., & Niño, D. F. (2024). Use of Social Learning Tools Improves Engagement and Performance in Undergraduate Medical Physiology Education. 2024 American Physiology Summit.

Jim, C., Campusano, J., Tadal, S., & Niño, D. F. (2024). Using Social Learning Tools to Improve Engagement and Performance in Undergraduate Medical Education. Innovations in Medical Education Online Conference 2024.

MEDICAL EDUCATION

POSTERS

Niño, D. F. (2023). Student Perceptions and Preferences of Asynchronous Learning Materials Used to Support Active Learning. 27th Annual International Association of Medical Science Educators (IAMSE) Conference.

Pearl, J. M. (2024). Abstract Reviewer for 41st Annual Meeting of the Association of Clinical Anatomist. AACA.

Pearson, D. (2024). Dungeon Master Approach in Teaching Biochemistry in Medical School Education. 21st Annual Innovations in Medical Education Online Conference.

Stone, K., Holbrook, D., & Bryce, C. I. (2023). Designing a values-based MS1 welcome week. 2023 AAMC Learn Serve Lead.

Warren, R., Bryce, C. I., & Racataian-Gavan, R. A. (2024). Early EMT experiences enhance medical education. 2024 AAMC Group of Student Affairs.

GRANTS

Abron, G. UT Tyler Medical School JAMP Program, Texas Higher Education Coordinating Board, (September 1, 2023), USD \$130,839.25.

Cooley, A.C., Holbrook, D. (Co-PI). Developing the Master Adaptive Learner: Coaching with Standardized Clinical Feedback, University of Texas System, (January 10, 2024), USD \$5,000.

Gallegly, J.D. Healthy Texas Women Program - Patient Navigator, Department of State Health Services, Texas, (September 1, 2023), USD \$30,000.

McLuen, T. Forensic Psychiatry Fellowship Program, Texas Higher Education Coordinating Board, (August 12, 2024), USD \$522,483.



PREVENTATIVE, OCCUPATIONAL, AND ENVIRONMENTAL MEDICINE

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Niño, D. F. (2023). Are You Providing Your Learners with What They Need to Succeed in Your Flipped Classroom?. 2023 Innovations in Medical Education.

Niño, D. F. (2023). Essential Framework for Teaching Homeostasis. A Clinical Deep Dive Webinar, Center for Physiology Education Homeostasis Month of Learning.

Pearl, J. M. (2023). All Things Heart. TJC Respiratory Care Conference.

Pearl, J. M. (2023). "Pulmonary Assessment, Diagnosis, Management". TJC Respiratory Care Conference.

Pearl, J. M. (2024). A 21st century mixed methodology approach to teaching the body Use of Clinical Vignettes for Self-Directed Anatomy Instructor in Medical School. Shine Academy.

Pearl, J. M. (2024). Use of Clinical Vignettes for Self-Directed Anatomy Instruction in Medical School. Annual Meeting of the IMSH Society for Simulation in Healthcare.

Pearson, D. (2023). Faculty as Dungeon Masters: Their Role in the Biochemistry Classroom. Association of Biochemistry Educators Conference.

Stone, K., Bryce, C. I., Holbrook, D. A., Carlson, A., Dickey, D., Tapia, C., & Noah, J. P. (2024). Crafting student success: Diverse strategies in academic houses and learning communities. 2024 AAMC Group of Student Affairs.

Wallace Gay, T., & Racataian-Gavan, R. A. (2023). IPE and Facilitating Interprofessional Teams: Empowering Medical Residents and Mentors and Preceptors. UT Health Graduate Medical Education.

POSTERS

Abron, G., & Lynn, A. (2024). Lessons Learned Implementing a Mission-Aligned Holistic Admissions Strategy in a New Medical School. Association of American Medical Colleges (AAMC), Group of Student Affairs (GSA), Careers in Medicine (CiM), Organization of Student Representatives (OSR) National Meeting.

Holbrook, D. A., Bryce, C. I., & Stone, K. (2023). The importance of academic house composition: Mentoring without upperclassmen. AAMC Learn Serve Lead.

Holbrook, D. A., Bryce, C. I., & Stone, K. (2024). Lessons learned: Building a medical school coaching program. AAMC Group of Student Affairs.

Jim, C., Campusano, J., Tadal, S., & Niño, D. F. (2024). Use of Social Learning Tools Improves Engagement and Performance in Undergraduate Medical Physiology Education. 2024 American Physiology Summit.

Jim, C., Campusano, J., Tadal, S., & Niño, D. F. (2024). Using Social Learning Tools to Improve Engagement and Performance in Undergraduate Medical Education. Innovations in Medical Education Online Conference 2024.

PREVENTATIVE, OCCUPATIONAL, AND ENVIRONMENTAL MEDICINE

ABSTRACTS, CASE REPORTS

Aggarwal, A., Rachmale, R., Le, T., & Tiruneh, Y. (2024). Barriers to Healthcare Access Among Low-Income Individuals in East Texas. Preventive Medicine 2024.

Rihan, A., Le, T., & Tiruneh, Y. (2024). Exploring the Association between having a Primary Care physician and physical activity levels: A Cross-sectional Study among low-income Individuals in Northeast Texas. Preventive Medicine 2024.

Rachmale, R., Aggarwal, A., Le, T., & Tiruneh, Y. (2024). Exploring the Impact of Food Insecurity on the Prevalence of Depression among Low-Income Individuals in East Texas. Preventive Medicine 2024.

Rajan, A., & Tiruneh, Y. (2024). Qualitative analysis of the impediments to public health surveillance, data flow, and dissemination during the COVID-19 pandemic response in Northeast Texas. Preventive Medicine 2024.

Tiruneh, Y., Rachmale, R., Elerian, N., & Lakey, D. (2024). HIV Prevention Practices to End the Epidemic: Provider's Knowledge and Practices of Routine Screening in Texas. Teaching Prevention 2024.

JOURNAL ARTICLES

Baker, B. A., Levin, J. L., O'Hara, H., Meyer, J. D., Caro, C., & Braund, W. E. (2023). American Board of Preventive Medicine Updated Occupational and Environmental Medicine Examination Content and Practice Analysis. Journal of occupational and environmental medicine, 65(11), 891-898. <https://doi.org/10.1097/JOM.00000000000002958>

Bush, K., Patrick, C., Elliott, K., Morris, M., Tiruneh, Y., & McGaha, P. (2023). Unsung heroes in health education and promotion: How Community Health Workers contribute to hypertension management. Frontiers in public health, 11, 1088236. <https://doi.org/10.3389/fpubh.2023.1088236>

Cuccaro, P. M., Choi, J., Tiruneh, Y. M., Martinez, J., Xie, J., Crum, M., Owens, M., & Yamal, J. M. (2024). Parental Factors Associated with COVID-19 Vaccine Uptake for Children over 5 Years of Age in Texas. Vaccines, 12(5), 526. <https://doi.org/10.3390/vaccines12050526>

Elbers, S. K., Vaughan, D. A., & Tiruneh, Y. M. (2024). COVID-19 Vaccine Motivation and Hesitancy among a Sample of African American, Afro-Caribbean, and African Respondents in the United States. Vaccines, 12(6), 571. <https://doi.org/10.3390/vaccines12060571>

Haire, A., Ball, C., Bosworth, M., Moore, K., Nessim, D., Ochran, T., ... & Zaman, A. (2020). How Dentistry Overcomes Being a COVID-19 Target. Texas Dental Journal, 137(12).

Levin, J. L., Wickman, A., Nguyen, A., Ho, T., Ball, C., Ndetan, H., & Carruth, A. (2023). Improving Crew Overboard Recovery for Commercial Fishing in the Gulf of Mexico. Journal of agromedicine, 28(4), 852-866. <https://doi.org/10.1080/1059924X.2023.2226135>

Nessim, D., Khademi, S., Ball, C., & Moore, K. (2020). One Residency Program's Response to the COVID-19 Pandemic and Educational Experiences Gained. Texas Public Health Journal, 72(4).

Nwachukwu, G., Rihan, A., Nwachukwu, E., Uduma, N., Elliott, K. S., & Tiruneh, Y. M. (2024). Understanding COVID-19 Vaccine Hesitancy in the United States: A Systematic Review. Vaccines, 12(7), 747. <https://doi.org/10.3390/vaccines12070747>

Soto Mas, F., Sebastian, R., Rosero, D., Nervi, L., Casanova, V., & Guldán, S. (2024). Safety and Injury of US-Certified Organic Crop Producers in the Southwest Region. Journal of agromedicine, 29(2), 168-178. <https://doi.org/10.1080/1059924X.2023.2281526>

Tiruneh, Y. M., Anwoju, O., Harrison, A. C., Garcia, M. T., & Elbers, S. K. (2024). Examining Health-Seeking Behavior among Diverse Ethnic Subgroups within Black Populations in the United States and Canada: A Cross-Sectional Study. International journal of environmental research and public health, 21(3), 368. <https://doi.org/10.3390/ijerph21030368>

Tiruneh, Y. M., Cuccaro, P. M., Elliott, K. S., Xie, J., Martinez, J., Owens, M., Alvarado, C. R., & Yamal, J. M. (2024). Vaccine Uptake and Intentions: Insights from a Texas Survey on Factors Influencing COVID-19 Vaccination Decisions. Vaccines, 12(6), 601. <https://doi.org/10.3390/vaccines12060601>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Amanda, W., & Levin, J. L. (2024). Using land-based simulation to perform crew overboard recovery training and research. The 6th International Fishing Industry Safety and Health Conference (IFISH6).

Bush, S. (2024). Lessons Learned: Insight on the Structure of an Established CHW Training Center. 5th Annual East Texas Research Conference (ETRC).

Crum, M. M. (2023). A Healthier Future for Prevention in East Texas. Science Seminar Series.

Crum, M. M. (2024). Texas Leadership in Action: Partnering for Successful Community Engagement and Building Trust. Dallas County Workshop: Strengthening Wastewater Monitoring Capacity for Improved Community Health.

Levin, J. L. (2024). ABPM's Continuing Certification Program (CCP) for PH_GPM, OEM, and Aerospace Medicine Physicians. UT Tyler PH_GPM Residency Lunch & Learn.

Levin, J. L. (2024). Drivers of Healthcare Education. Academy of Distinguished Teachers, University of Texas at Tyler, Discussion Panel.

Levin, J. L. (2024). Physical Factors Affecting Health in Agriculture. Agricultural Workshop/Agricultural Medicine Course, Presented to University of North Texas Rural Osteopathic Medical Education or ROME Students and UT Tyler OEM Residents.

Levin, J. L., & Ondrula, C. J. (2024). ABPM's Continuing Certification Program (CCP) for OEM Physicians. Western Occupational and Environmental Medicine Association (WOEMA).

PREVENTATIVE, OCCUPATIONAL, AND ENVIRONMENTAL MEDICINE

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Levin, J. L., McKenzie, J., & Perkison, W. (2024). The Complementary Pathway to Occupational and Environmental Medicine. American College of Occupational and Environmental Medicine (ACOEM), OEM Pipeline Task Force.

Levin, J. L., & Wickman, A. (2024). Crew Overboard Recovery for Commercial Fishermen in the Gulf of Mexico. 5th Annual East Texas Research Conference (ETRC).

Nessim, D. E. (2023). Climate Change and its Impact on Children's Health. Grand Rounds for the Southwest Center of Pediatric Environmental Health - One of 10 PEHSUs.

Patrick, C. (2024). Community Collaborations Support Healthy Paths for Strong Brains. East Texas Research Conference.

Tiruneh, Y., McBride, S., Rihan, A., Decaro, M., Byrd, T., Bernstam, E., & Berry, J. D. (2024). Rural-Urban Disparities in Hypertension Prevalance and Control in East Texas. East Texas Research Conference.

POSTERS

Bush, S. (2023). Lessons Learned: Insight on the Structure of an Established CHW Training Center. 3rd Bi-Annual CHWs in the Mix Interprofessional Collaborative at the University of Texas TECH Community Health Worker (CHW) Conference.

Bush, S., & Mendoza, L. (2023). Healthy Paths for Strong Brains. 3rd Bi-Annual CHWs in the Mix Interprofessional Collaborative at the University of Texas Tech Community Health Worker (CHW) Conference.



Bush, S., Cofer, C., Patrick, C., & Mendoza, L. (2024). CHWs: The unsung heroes in diabetes prevention and management. Association of Diabetes Care and Education Specialists (ADCES) Annual Conference.

Crum, M. M., Cagle-White, B., Elbadawi, A., Wheatly, C., & Yost, J. (2024). Wellness in the Workplace: The Incorporation of Training with Personal Resiliency and Its Effect on Retention. The Association of Public Health Laboratories Annual Conference.

Patrick, C. (2023). Healthy Paths for Strong Brains. 3rd Bi-Annual CHWs in the Mix Interprofessional Collaborative at the University of Texas Tech Community Health Worker (CHW) Conference.

GRANTS

Bush, S.K. Diabetes Prevention and Control Grant Program, Department of State Health Services, Texas, (December 27, 2023), USD \$260,000.

Bush, S.K. Hypertension Management Program, Centers for Disease Control and Prevention, (April 18, 2024), USD \$1,110,000.

Levin, J.L. Navigating the Waters of the US Healthcare System: Improving the Biopsychosocial Health of Fishing Industry Workers, Centers for Disease Control and Prevention, (September 1, 2023), USD \$57,042.

Yost, J.M. Laboratory Response Network (LRN) Influenza Surveillance, Department of State Health Services, Texas, (September 1, 2023), USD \$10,000.

PSYCHIATRY AND BEHAVIORAL MEDICINE

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Johnson, T. S. (2023). The Mole Hill that Became a Mountain: Addressing Child and Adolescent Mental Health Early. Child Psychiatry Access Network (CPAN) CME Presentation.

Ross-Young, H. E., Hart, S., Reznik, S., Smith, S., Warner, A., Rafferty, M., Badawi, J., Warren-Davis, L., & Rhodes, D. (2023). Getting serious about serious mental illness: Responding to SMI across the lifespan. Texas Psychological Association Annual Convention.

Ross-Young, H. E., & Simmons, S. (2024). Structure and nurture: Developing confident and competent medical learners through effective supervision. UT System Shine Academy Innovations Conference.

GRANTS

Nichols, B.L. CTRN-TF-CBT, Texas Child Mental Health Care Consortium, (September 1, 2023), USD \$26,050.

Nichols, B.L. Collaborative Care, Texas Child Mental Health Care Consortium, (September 1, 2023), USD \$257,400.



SURGERY

JOURNAL ARTICLES

Abdelgawad, M., Wu, D., Kamel, O., Abdelgawad, S., & Ismael, H. (2024). Management of Multiple Ducts at the Transected Pancreatic Neck in a Whipple Procedure. *The American surgeon*, 90(6), 1815-1817.

<https://doi.org/10.1177/00031348241246177>

Ardeshtna, S., Esposito, E., Spalding, C., Dunn, J., Nahmias, J., Grigorian, A., Harmon, L., Gergen, A., Young, A., Pascual, J., Murry, J., Ong, A., Appelbaum, R., Bugaev, N., Tatar, A., Zreik, K., Scalea, T. M., Stein, D., & Lauerman, M. (2023). Which Patients Receive Diagnostic Angiography? An EAST Multicenter Study Analysis of Internal Carotid Artery Blunt Cerebrovascular Injury. *The American surgeon*, 89(12), 5183-5190.

<https://doi.org/10.1177/00031348221138083>

Cook, A., Swindall, R., Spencer, K., Wadle, C., Cage, S. A., Mohiuddin, M., Desai, Y., & Norwood, S. (2023). Hospitalization and readmission after single-level fall: a population-based sample. *Injury epidemiology*, 10(1), 49.

<https://doi.org/10.1186/s40621-023-00463-4>

De Vera, C. J., Emerine, R. L., Girard, R. A., Sarva, K., Jacob, J., Azghani, A. O., Florence, J. M., Cook, A., Norwood, S., Singh, K. P., Komissarov, A. A., Florova, G., & Idell, S. (2023). A Novel Rabbit Model of Retained Hemothorax with Pleural Organization. *International journal of molecular sciences*, 25(1), 470.

<https://doi.org/10.3390/ijms25010470>

Fernández L. G. (2024). Treatment of Complex Thoracic and Abdominal Trauma Patients: A Review of Literature and Negative Pressure Wound Therapy Treatment Options. *Advances in wound care*, 13(8), 416-423.

<https://doi.org/10.1089/wound.2023.0113>

Fernández, L. G., & Matthews, M. R. (2024). Clinical observations in patients with open abdomens managed with negative pressure therapy using a perforated foam dressing: a limited case series with brief literature review. *Wounds: a compendium of clinical research and practice*, 36(2), 61-66.

<https://pubmed.ncbi.nlm.nih.gov/33591932/>

Fernandez, L. G., Murry, J., Matthews, M. R., Thompson, C. L., Abdelgawad, M., & Bjorklund, R. (2024). Definitive Closure Using an Ovine Reinforced Tissue Matrix in Contaminated Penetrating Abdominal Trauma. *The American journal of case reports*, 25, e943188.

<https://doi.org/10.12659/AJCR.943188>

Fernandez, L. G., Orsi, C., Okeoke, B., Moudy, P., Critelli, P. A., Norwood, S., Matthews, M. R., Kim, P. J., MacEwan, M., & Sallade, E. (2024). Synergistic clinical application of synthetic electrospun fiber wound matrix in the management of a complex traumatic wound: degloving left groin and thigh auger injury. *Wound: a compendium of clinical research and practice*, 36(4), 124-128.

<https://doi.org/10.25270/wnds/23117>

SURGERY

JOURNAL ARTICLES

Fernandez, L., Baptiste, R. C., Bjorklund, R., Alkhatib, A., Sheriff, N., Sanchez, C., Obst, M. A., & Swindall, R. (2024). The clinical application of incisional negative pressure wound therapy in severe subcutaneous emphysema: A case series. *Trauma case reports*, 51, 101026.

<https://doi.org/10.1016/j.tcr.2024.101026>

Ghneim, M., Kufera, J., Zhang, A., Penaloza-Villalobos, L., Swentek, L., Watras, J., Smith, A., Hahn, A., Rodriguez Mederos, D., Dickhudt, T. J., Laverick, P., Cunningham, K., Norwood, S., Fernandez, L., Jacobson, L. E., Williams, J. M., Lottenberg, L., Azar, F., Shillinglaw, W., Slivinski, A., ... Brain vs. Bone Study Group (2023). Does lower extremity fracture fixation technique influence neurologic outcomes in patients with traumatic brain injury? The EAST Brain vs. Bone multicenter trial. *The journal of trauma and acute care surgery*, 95(4), 516-523.

<https://doi.org/10.1097/TA.00000000000004095>

Keihani, S., Rogers, D. M., Wang, S. S., Gross, J. A., Joyce, R. P., Hagedorn, J. C., Majercik, S., Sensenig, R. L., Schwartz, I., Erickson, B. A., Moses, R. A., Selph, J. P., Norwood, S., Smith, B. P., Dodgion, C. M., Mukherjee, K., Breyer, B. N., Baradaran, N., Myers, J. B., & (primary investigator), for the Multi-institutional Genito-Urinary Trauma Study Group (MiGUTS) (2023). Shattered Kidney After Renal Trauma: Should It Be Classified As an American Association for the Surgery of Trauma Grade V Injury? *Urology*, 179, 181-187. <https://doi.org/10.1016/j.urology.2023.06.015>

Kelley, W., Zreik, K., Gergen, A., Williams, J., Jacobson, L. E., Nahmias, J., Tatar, A., Murry, J., Grigorian, A., Ong, A., Stein, D. M., Scalea, T. M., & Lauerman, M. H. (2024). Early Pharmacologic Therapy in Patients with Blunt Cerebrovascular Injury and TBI: Is it Safe and Effective? An EAST Multicenter Study. *The American surgeon*, 90(6), 1330-1337.

<https://doi.org/10.1177/00031348241230094>

Kim, P. J., Fernandez, L., Obst, M. A., Chaffin, A., Faust, E., Lantis, J., Couch, K., Desvigne, M., Suski, M., Kundu, N., Matthews, M., Simman, R., Murphy, C., Nierenberg, N. E., & Téot, L. (2024). Multidisciplinary expert consensus statements and recommendations for use of hypochlorous acid as a solution for negative pressure wound therapy with instillation. *Wounds : a compendium of clinical research and practice*, 36(4), 108-114.

<https://doi.org/10.25270/wnds/23143>

Matta, R., Keihani, S., Hebert, K. J., Horns, J. J., Nirula, R., McCrum, M. L., McCormick, B. J., Gross, J. A., Joyce, R. P., Rogers, D. M., Wang, S. S., Hagedorn, J. C., Selph, J. P., Sensenig, R. L., Moses, R. A., Dodgion, C. M., Gupta, S., Mukherjee, K., Majercik, S., Broghammer, J. A., ... in conjunction with the Trauma and Urologic Reconstruction Network of Surgeons (2024). Proposed revision of the American Association for Surgery of Trauma Renal Organ Injury Scale: Secondary analysis of the Multi-institutional Genitourinary Trauma Study. *The journal of trauma and acute care surgery*, 97(2), 205-212.

<https://doi.org/10.1097/TA.00000000000004232>

SURGERY



JOURNAL ARTICLES

Mohiuddin, M., Alexander, T. H., Holcomb, A., Alexander, K., Plotkin, G., & Cook, A. (2023). Cerebral Vasomotor Reactivity Testing in the Middle Cerebral Artery Using Transcranial Doppler to Assess Brain Dysregulation in Long-haul COVID Patients. *Journal for Vascular Ultrasound*, 47(4), 172-183.

<https://doi.org/10.1177/15443167231202560>

Murry, J., Cook, A. D., Swindall, R. J., Kanazawa, H., Wadle, C. R., Mohiuddin, M., Nalbach, S. V., Le, T. D., Pero, B. N., & Norwood, S. H. (2024). A Criteria to Reduce Interhospital Transfer of Traumatic Brain Injuries in Greater East Texas. *The American surgeon*, 90(12), 3201-3208.

<https://doi.org/10.1177/00031348241266632>

Spoor, K., Cull, J. D., Otaibi, B. W., Hazelton, J. P., Chipko, J., Reynolds, J., Fugate, S., Pederson, C., Zier, L. B., Jacobson, L. E., Williams, J. M., Easterday, T. S., Byerly, S., Mentzer, C., Hawke, E., Cullinane, D. C., Ontengco, J. B., Bugaev, N., LeClair, M., Udekwu, P., ... Hardman, C. (2024). Failure rates of nonoperative management of low-grade splenic injuries with active extravasation: an Eastern Association for the Surgery of Trauma multicenter study. *Trauma surgery & acute care open*, 9(1), e001159.

<https://doi.org/10.1136/tsaco-2023-001159>

ORAL PRESENTATIONS, SYMPOSIA, SEMINARS

Ismael, H. (2024). Hepatobiliary. North Texas Chapter of the American College of Surgeons Annual Conference.



At the School of Nursing, our mission is to “empower students, faculty, and staff to excel as leaders, scholars, and nurse clinicians in a caring, person-centered, strengths-based environment”. With over 2,700 students enrolled this spring in undergraduate, master’s, and doctoral degree programs, the School of Nursing comprises 25% of the university’s enrollment. As a practice discipline, the Scholarship of Practice is deeply embedded in our programs. Faculty and students actively participate in caring for individuals, families, and communities throughout the region. They are engaged in acute care, advanced practice, and community health settings.

The School of Nursing faculty also engage in the Scholarship of Discovery. Despite the continued challenges associated with nursing shortages and the need to focus on delivery of care, School of Nursing faculty published 58 journal articles, four book chapters, and gave 95 professional presentations, including 27 posters and 68 podium presentations, during the 2023-2024 academic year. The work performed by faculty was supported by over \$2 million in grant funding, much of it focused on preparing the next generation of nurses, information technology, healthcare resource utilization, and rural outreach. Examples include grant funding to support the mental health of rural youth, disaster preparedness, educating the next generation of nursing faculty, utilization of resources in the greater Longview region, and providing psychological and exercise support to persons with chronic illness.

Under the leadership of the School of Nursing Associate Dean for Research, Dr. Susan McBride, a renowned scholar with expertise in data science and analytics, a new data analytics lab was planned and opened to train healthcare professionals and researchers in using large data sets to answer the questions that matter to East Texas. Working with colleagues from the School of Health Professions, School of Medicine, and School of Pharmacy, we will continue to expand our understanding of health-related issues and address the critical healthcare needs of our region and beyond.

*Barbara Haas, PhD, RN
Lee Roy and Lucy Mathis Chair in Nursing
Dean and Professor, School of Nursing*

SCHOOL OF NURSING



NURSING

BOOKS

Fox, E. (Ed.). (2024). Maternal-Newborn Nursing (pp. Chapters 1, 2, 10, 11, 12, 13, 14, 15). OpenStax, Rice University.

Delgado, S. (2023). AACN Essentials of Critical Care Nursing, 5th Edition (p. Chapters 1-2). McGraw Hill Education.

McBride, S. G., & Tietze, M. F. (2023). Nursing Informatics for the Advanced Practice Nurse: Patient Safety, Quality, Outcomes, and Interprofessionalism, 3rd Ed. Springer.

CREATIVE PRODUCTIONS

Hermanns, M. (2024, March). My PD Story. In <https://www.parkinson.org/living-with-parkinsons/stories>. Parkinson's Foundation.

JOURNAL PUBLICATIONS

Abrams, M., Gosselin, K., Roth, C., & Hoffman, N. (2024). A randomized trial comparing Neolight Skylife™ and blanket phototherapy in newborn indirect hyperbilirubinemia. Clinical Pediatrics, <https://doi.org/10.1177/00099228231190120>

Brown, C. R., Elliott, B., Gipson, C. (Christy) S., Holmstrom, J., & Stallings, D. (2024). RN to BS Nursing Education Research: A Scoping Review. Nursing Education Perspectives, 45, 219-224. <https://doi.org/10.1097/01.NEP.00000000000001228>

Caulkins, E., Courville, K., Deal, B. J., Swanberg, A., Barnes, G. A., & Bowen, J. (2024). Implementing an approach to prevent life-threatening bleeding: Guidance on forming a campus initiative. Public Health Nursing, 41, 325-327. <https://doi.org/10.1111/phn.13281>

David, R., Gosselin, K., Robert, B., & James, G. (2024). Comprehensive radiation shield minimizes operator radiation exposure in coronary and structural heart procedures. Cardiovascular Revascularization Medicine, 64, 70-75. <https://doi.org/10.1016/j.carrev.2024.02.015>

Gipson, C. (Christy) S., Hermanns, M., & Murley, B. (2024). Strategies for Success to Promote Self-Care. Nurse Educator, 49(2), 84. <https://doi.org/10.1097/nne.0000000000001440>

Hansen, A., Desai, S., Cooper, A., Steinbach, M., Gosselin, K., & Wanebo, J. (2023). The clinical progression of patients with glioblastoma. Interdisciplinary Neurosurgery, 32, 1017656. <https://doi.org/10.1016/j.inat.2023.101756>

Patterson, J., & Mastel-Smith, B. (2023). Person-Centered Care for Someone Living with Dementia: Lady Gaga and Tony Bennett. International Journal for Human Caring, 28(1). DOI: 10.20467/IJHC-2022-0033

Preston, A. J. (2024). The importance of nurse-patient relationships in the midst of substance misuse: Support for rural youth wellbeing. Journal of Psychosocial Nursing and Mental Health Services, 62(6), 7-11. <https://doi.org/10.3928/02793695-20240423-0>

Preston, A., Rew, L., & Spees, J. (2024). Social determinants of health and psychological capital among youth experiencing homelessness. Western Journal of Nursing Research, 46(8), 583-591. <https://doi.org/10.1177/01939459241253150>

NURSING

JOURNAL PUBLICATIONS

Rizik, D., Burke, R., Klassen, S., Nigoghosian, A., Riley, R., Gosselin, K., & Goldstein, J. (2023). Comprehensive Shielding System Enhances Radiation Protection for Structural Heart Procedures. Journal of the Society for Cardiovascular Angiography & Interventions. <https://doi.org/10.1016/j.jscai.2023.101110>

Roberts, A., & Hermanns, M. (2023). Take a Minute to Listen, It Could Save a Life. RN Journal. <https://rn-journal.com/journal-of-nursing/take-a-minute-to-listen-it-could-save-a-life>

Robinson, J., Jagiello, K., McElroy, L. D., LoVerde, J. A., Jowell, V. L., Good, P., & Brink, S. E. (2024). Competency-Based Education in RN to BSN Programs: Exemplars for Implementing the 2021 Essentials. Nurse Educator, 49(4), 195-199. <https://doi.org/10.1097/NNE.0000000000001604>

Rose, D. R., Newman, S. D., Mueller, M., Magwood, G. S., & Lutz, B. J. (2024). Working-age Caregivers of Stroke Survivors: Needs, Concerns, and Quality of Life. Rehabilitation Nursing, 49 (2), 33-43. <https://doi.org/10.1097/RNJ.0000000000000447>

Roth, C., Brewer, M., Gosselin, K., & Bay, C. (2023). Hospital Employees' Perceptions of Being Swamped. OJIN: The Online Journal of Issues in Nursing, 29(1). DOI: 10.3912/OJIN.Vol29No01PPT59

Schlemmer, T. (2023). Impact of Strokes: The Burden of Care, Post-CVA Fatigue & Caregiver Role Strain. Open Journal of Nursing, 13, 487-499. <https://doi.org/10.4236/ojn.2023.138032>

Thurman, W., Heitkemper, E., Hutson, T., Preston, A., & Hecht, J. (2023). "The System Tends to Scoop You Up and Spit You Out and They're Done with You": The Intersection of Intellectual/Developmental Disability and Homelessness from the Perspectives of Service Providers. Qualitative Health Research, 33(11), 1017-1029. <https://doi.org/10.1177/10497323231186880>

Vottero, B., Altmiller, G., Deal, B. J., Clarke, N., Walker, D., & Rosales, M. (2024). A multi-site study of a quality improvement teaching strategy to build competency. Journal of Nursing Education, 63, 38-42. <https://doi.org/10.3928/01484834-20231112-07>

OTHER

Hermanns, M. (2024). Letter to Editor: People with Parkinson's Need a Plan for Hospital Stays. Tyler Morning Telegraph.

Hermanns, M. (2024). Podcast: Conversations Series: Dr. Melinda Hermanns. Self-Care, Coping and Decompressing for Carepartners/givers of People with Parkinson's. The Parkinson's Pillar Group.

Holmgren, A. J., McBride, S., Gale, B., & Mossburg, S. (2023). Technology as a tool for improving patient safety.

Miles, J. (2023). Practice Tip of the Week - A Just Culture Encourages Error Reporting. Texas Nurses Association. <https://www.texasnurses.org/news/650744/>

NURSING

POSTER PRESENTATIONS

Comiskey, R. D., Rose, D. R., & James, L. (2023, September). Escaping DKA: Promoting Teamwork with an Escape Room Simulation. In NLN Summit. National League of Nurses.

Deal, B. J. (2024, February). Facilitating the Scholarly Journey of Nursing Honor Students. In 2024 Annual Conference · SNRS 38th Annual Conference. Collaborating to Advance Nursing Research, Education, Leadership, and Practice. Southern Nursing Research Society.

George, J. M., & Rose, D. R. (2023, September). All Hands-on Deck: Preparing for the BSN Role in a Multi-level Simulation. In NLN Summit. NLN.

Griffin, T. L. (2023, October). Improving Adherence to Clinical Practice Guidelines in Acute Coronary Syndrome. In American College of Cardiology Quality Summit. American College of Cardiology.

Hext, M., & Taylor, M. (2024, April). Where Critical Care and Mental Health Collide in the ICU. In American Association of Critical Care Nurses Annual Symposium. American Association of Critical Care Nurses.

Maryon, T., Chandarlis, J., & Haas, B. K. (2024, Spring). Implementing an interprofessional health education (IPE) pilot program to gain knowledge of the global health stage while encouraging future global health research endeavors and promoting student academic success. In Association of Teaching Prevention and Research Annual Meeting. Association of Teaching Prevention and Research.

Maryon, T., Chandarlis, J., Haas, B. K., & Hook, J. N. (2024, Spring). Implementing an interprofessional health education (IPE) pilot program to gain knowledge of the global health stage while encouraging future global health research endeavors and promoting student academic success. In SHINE Innovations Academy 2024. SHINE Academy.

Miles, J. (2024, May 24). Undergraduate student nurses' perceptions of using a mobile clinical decision support app for clinical learning. In Advancing Healthcare Excellence: Interdisciplinary Research and Innovation Showcase.

Murley, B., Chen, K.-M., Gipson, C. (Christy) S., Gosselin, K., Ross, A., Gladding, K., & Mastel-Smith, B. (2024, Spring). A Mixed Methods Pilot Study Evaluating the Effects of the Vitality Acupunch Exercise Program on Older Adults in East Texas Long-Term Care. In East Texas Research Conference. The University of Texas at Tyler.

Preston, A. J., Rew, L., & Young, C. C. (2023, Spring). Psychological capital associated with wellbeing among rural, underserved US youth: Health policy implications. In American Academy of Nursing Health Policy Conference.

Rose, D. R., Parker, C. D., Madisetti, M., & Newman, S. D. (2024, January). Attack of the Bots: Researchers Beware! In 7th Annual IQSC Data Summit. DFWHC Foundation.

Sinay, K., Johnson, K., & Preston, A. J. (2024, Spring). Nurse involvement with child and adolescent menstruation: An integrative review of the literature. In 5th Annual Interprofessional Health Showcase. University of Texas at Austin.

NURSING

PRESENTATIONS

Deal, B. J. (2024, April). Facilitating the Scholarly Journey of Nursing Honor Students. In 5th Annual East Texas Research Conference 2024. Office of Research, Scholarship and Sponsored Programs.

Elliott, B., Sikes, D., Patterson, B., Chargualaf, K. A., Song, H., & Armstrong, M. (2023, November). Leading Nursing Education in Understanding Military Culture & Caring for Veterans. In AACN Transform 2023. AACN.

Elliott, B., Brown, C., Gipson, C. (Christy) S., Holmstrom, J., & Stallings, D. (2023, November 11-15). The Status of Nursing Education Research in RN-BSN Programs: What does the evidence tell us? In 47th Biennial Convention. Sigma.

Elliott, B., & Gipson, C. (Christy) S. (2024, January 16). Open Scholarship Exchange. In National RN-Baccalaureate Faculty Forum. National RN-Baccalaureate Faculty Forum.

Gipson, C. (Christy) S. (2023, October 30). Open Scholarship Exchange. In National RN-Baccalaureate Faculty Forum. National RN-Baccalaureate Faculty Forum.

Gosselin, K., Oliver, H., Rose, D. R., George, J. M., Deal, B. J., McBride, S. G., Strout, PhD, RN, K. R., Crabtree, D., & Hanson, A. (2024, April). The Influence of Music: A Randomized Controlled Study on Anxiety, Self-Efficacy, Burnout, and Performance for Nursing Students undergoing Simulation Testing. In East Texas Research Conference.

Hair, M., Jowell, V. L., Cherubini, D., Blackwell, D., & Tredway, K. (2023, December). ANCC Transform Conference - Fall 2023 Podium Presentation - Innovative Practice Experiences. In ANCC Transform Conference - Fall 2023. ANCC.

Hermanns, M., & Gipson, C. (Christy) S. (2023, August). Incorporating a Q & A Approach for Assignment Instructions to Foster Academic Success. In SNRS 38th Annual Conference Collaborating to Advance Nursing Research, Education, Leadership, and Practice. Southern Nursing Research Society (SNRS).

Hermanns, M. (2023, November). CarePartner Summit 2023: Loving Through Challenges: Conversations & Connections for Caregiving. In Parkinson's Foundation.

Hext, M. (2024, March). The Importance of Mental Health, Self-Care, and Positive Coping Mechanisms. In Beaumont Firefighters and Emergency Medical Response Union Conference. Beaumont Firefighters Union.

Jowell, V. L. (2024, March 5). Nursing Jurisprudence: Legal & Ethical Considerations: Part I-III Foundations of Practice. In Texarkana College Mini Conference. National Student Nurses Association.

Kahveci, K., Draganic, K., Fox, E., & Eckhardt, A. (2024, April). Bringing Nurse Practitioner Education into the Virtual World. In NONPF 50th Annual Conference: The NP Educators Golden Jubilee. National Organization of Nurse Practitioner Faculties.

NURSING

PRESENTATIONS

Lowe, A. (2024). Preventing Cancer with Vaccination. In Harmony and Health Education. The University of Texas MD Anderson Cancer Center.

Mama, S., Davis, T., Selman, J., Escobar, C., Friendly, B., Ju, Y. R., Haas, B. K., Rogers, L., Schmitz, K., & McNeill, L. (2024, Autumn). Mind Your BEAT: A community-based intervention to increase physical activity and reduce psychosocial distress in rural cancer survivors. In International Society of Physical Activity and Health (ISPAH) Congress. International Society of Physical Activity and Health (ISPAH).

Mastel-Smith, B., Kimzey, M., & Garner, J. (2023, Autumn). Dementia Bootcamp for High School Students. In GSA 2023 Annual Scientific Meeting. Gerontological Society of America.

Mastel-Smith, B., Kimzey, M., Hermanns, M., & Robinson, A. (2024, Autumn). "Everybody has a soul": People with dementia and nursing students co-creating life stories. In Gerontological Society of America Annual Scientific Meeting. Gerontological Society of America.

Murley, B., & Gipson, C. (Christy) S. (2024, May). A Mixed Methods Pilot Study Evaluating the Effects of the Vitality Acupunch Exercise Program on Older Adults in Long-Term Care. In Research Showcase: Advancing Healthcare and Excellence: Interdisciplinary Research and Innovation-.

Preston, A. J., Rew, L., & Young, C. C. (2023, Autumn). Exploring stigma and mental health: Patient-reported outcomes among rural, underserved youth. In PROMIS Health Organization 9th Annual International Conference. PROMIS Health Organization (PHO).

Preston, A. J. (2024, Spring). Measuring Psychological Capital (HERO Strengths) and Other Considerations for Rural Youth Mental Health. In Invited Speaker: Grand Rounds. University of Alabama Center for Substance Use and Related Conditions.

Preston, A. J. (2024, Summer). Psychological Capital and School Nursing Practice. In Region VII Annual School Nurse Conference.

Rose, D. R., Newman, S. D., Mueller, M., Magwood, G. S., & Lutz, B. J. (2024, April). Model of Quality of Life for Informal Caregivers of Stroke Survivors. In East Texas Research Conference. University of Texas at Tyler.

Rizik, D., Gosselin, K., Burke, R., & Goldstein, J. (2024, March). Comprehensive Radiation Shield Minimizes Operator Radiation Exposure in Coronary and Structural Heart Procedures. In Cardiovascular Research Technologies annual meeting.

Schlemmer, T. (2024). Understanding Occupational Burnout. In Research Showcase, Advancing Healthcare and Excellence: Interdisciplinary Research and Innovation. UT Tyler.

NURSING

**PROCEEDINGS PUBLICATIONS**

McBride, S., Tietze, M., & Mitchell, M. (2014, February). Balancing the Quality and Technology Conundrum: Strategies for Mitigating Unintended Consequences and Legal Implications of Documentation. American Nursing Informatics Association 2014 Annual Conference.

GRANTS

Chilton, J. TOBGNE Innovation in Teaching, Texas Organization of Baccalaureate and Graduate Nursing Education, (January 1, 2024), USD \$2,000.

McBride, S., Byrd, T. (Co-Investigator), Parker, C. (Co-Investigator). PHIT Workforce Development, Office of the National Coordinator for Health IT, (October 1, 2023), USD \$208,289.

Song, H. Reducing Opioid Overdose, City of Longview, Texas, (September 30, 2023), USD \$201,161.





As the Dean it is my privilege to introduce the Soules College of Business and highlight the continuous commitment students, faculty, and staff make in completing high-quality research and scholarly activities. In addition, the Hibbs Institute for Business and Economic Research continues to be a reliable source for updates and information about issues of interest to the East Texas region and beyond. During the recent academic year, the faculty within the Soules College of Business completed journal publications, presentations (although many of them virtually), academic proceedings, doctoral dissertations, book chapters, manuscript reviews, etc. Faculty members also continue to serve in several leadership and editorship positions in their professional and academic field of study due to their reputation for scholarly and educational excellence.

The Soules College of Business's commitment to scholarly and educational excellence has not gone unnoticed. It has helped propel its online MBA program as a top-30 program, ranked #29, in the most recent Fortune magazine rankings. Several programs in the Soules College of Business also continue to hold two prestigious international accreditations for educational quality and scholastic achievement from the Association to Advance Collegiate Schools of Business (AACSB) and the Association of Technology, Management, and Applied Engineering (ATMAE). I would like to congratulate my colleagues and all members of the Soules College of Business family for another year of remarkable scholarly and research success!

*Dr. Krist Swimberghe, DBA
Dean, Soules College of Business*

SOULES COLLEGE OF BUSINESS



COMPUTER SCIENCE

JOURNAL PUBLICATIONS

Dakshit, S. (2024). Multiview outlier filtered pediatric heart sound classification. International Journal of Advanced Computer Science and Applications, 15, 1-9. https://thesai.org/Downloads/Volume15No5/Paper_1-Multiview_Outlier_Filtered_Pediatric_Heart_Sound.pdf

Kulkarni, A. D. (2023). Multispectral image analysis using convolution neural networks. International Journal of Advanced Computer Science and Applications, 14(10), 13-19. <http://dx.doi.org/10.14569/IJACSA.2023.0141002>

PRESENTATIONS

Dakshit, Sagnik. (2024, June). Abstaining ECG classifiers through explainable prototypical spaces. 651-659. In 12th IEEE International Conference on Healthcare Informatics. <http://dx.doi.org/10.1109/ICHI61247.2024.00104>

Dakshit, Sagnik. (2024, July). Explanations of augmentation methods for deep learning ECG classification. In 22nd International Conference on Artificial Intelligence in Medicine. https://doi.org/10.1007/978-3-031-66535-6_30

PROCEEDINGS PUBLICATIONS

Balasubramanian, N. S. P., & Dakshit, S. (2024, July). Explanations of augmentation methods for deep learning ECG Classification. In the 2024 International Conference on Artificial Intelligence in Medicine. https://doi.org/10.1007/978-3-031-66535-6_30

Chung, W. (2023, October). Building human digital twins: Cases for intelligence and security informatics. In the 2023 IEEE International Conference on Intelligence and Security Informatics (ISI). <https://doi.org/10.1109/ISI58743.2023.10297175>

Chung, W. (2023). Extracting business intelligence with Data-Centric Neural Network Language Models. In the 2023 Proceedings of the Pre-ICIS SIGDSA Symposium. <https://aisel.aisnet.org/sigdsa2023/11>

Chung, W. (2023). Understanding behavioral drivers in Twitter social media networks. In the 2023 Proceedings of the International Conference on Information Systems. https://aisel.aisnet.org/icis2023/socmedia_digcollab/socmedia_digcollab/9



FINANCE, ACCOUNTING AND BUSINESS LAW

CHAPTERS

Fischer, M. (2023). Accounting research on colleges and universities. In Research handbook on nonprofit accounting. (pp. 269-290). UK: Edward Elgar Publishing. <https://doi.org/10.4337/9781800888289.00024>

JOURNAL PUBLICATIONS

Fischer, M., & Orr, L. (2023). Startup business types and their leaders. American Journal of Management (B Journal), 23(5), 36-48. <https://research.ebsco.com/linkprocessor/plink?id=62564a95-4923-3a0e-8141-70933e690346>

Fischer, M. (2024). Higher Education institutions' credit loss recognition. Journal of Applied Business and Economics (B Journal), 26(4), 135-144. <https://research.ebsco.com/linkprocessor/plink?id=243ab7ad-98d1-3425-b66c-66501c2530c1>

Fischer, M., & Goad, S. (2024). Greenhouse gas emission - A perspective. Journal of Strategic Innovation and Sustainability (B Journal), 19(2), 1-13. <https://doi.org/10.33423/jsis.v19i2.6991>

Goad, S., & Fischer, M. (2024). Lean accounting: A decision-making tool. Journal of Management Policy and Practice (B Journal), 25(1), 63-75. <https://research.ebsco.com/linkprocessor/plink?id=63793915-a69c-3861-9f7a-6235a36fb9c9>

Goad, S., & Fischer, M. (2024). Production cost recognition: Time-based methodologies. Journal of Accounting and Finance (B Journal), 24(5), 1-11. <https://research.ebsco.com/linkprocessor/plink?id=d4195f66-e7d7-35a3-9b88-54b1c0543d83>

Goad, S., & Fischer, M. (2024). Unearthing the past: The orphan oil and gas well menace. Oil, Gas and Energy Quarterly (B Journal), 73, 123-137. <https://research.ebsco.com/linkprocessor/plink?id=d4195f66-e7d7-35a3-9b88-54b1c0543d83>

James, H. L. (2023). Social capital and the riskiness of trade credit. Journal of Behavior and Experimental Finance, 39, 100832. <https://doi.org/10.1016/j.jbef.2023.100832>

James, H. L., Ngo, T., & Wang, H. (2023). The impact of more able managers on trade credit. Journal of Behavioral and Experimental Finance, (40), 100857. <https://doi.org/10.1016/j.jbef.2023.100857>

James, H. L., Wang, H., & Wang, Z. (2023). Covenant violation and operational efficiency. Accounting and Finance, 64(2), 1879-1920. <https://doi.org/10.1111/acfi.13204>

James, H. L., Wang, H., & Borah, N. (2024). Firm-level political risk and cash flow sensitivity of cash. Quarterly Journal of Finance, 14(1), 2450004. <https://doi.org/10.1142/S2010139224500046>

FINANCE, ACCOUNTING AND BUSINESS LAW

JOURNAL PUBLICATIONS

Kim, H., & Harjoto, M. A. (2023). Economic policy uncertainty and cost rigidity: the moderating effects of government contracts and political connections. *Journal of Applied Accounting Research*, 25(5), 1120-1145.
<https://doi.org/10.1108/jaar-07-2023-0224>

Kim, H., Laksmana, I., & Harjoto, M. (2023). Managing disclosure of political risk: The case of socially responsible firms. *Journal of Business Research*, 154, 113366.
<https://doi.org/10.1016/j.jbusres.2022.113366>

Wu, C. Y., & Pandey, V. K. (2024). De-Dollarization: The end of the age of petrodollars? *Oil, Gas & Energy Quarterly (B)*, 72, 517-524.

POSTER PRESENTATIONS

Katuri, S. H., & Willis PhD, CPA, CGMA, V. F. (2024, April). Visualizing the Language of Journal Entries. In 2024 SW AAA Regional Meeting. American Accounting Association - Southwest.

PRESENTATIONS

Fischer, M. (2024, April). Greenhouse emissions. In Federation of Business Disciplines. Southwestern Decision Science Institute.

Fischer, M. (2024, April). Lean accounting. In Federation of Business Disciplines. Southwest Decision Science institute.

James, H. L., Wang, H., & Jiraporn, P. (2023, November). Labor investment efficiency and CEO tenure. In Southern Finance Association.
<http://dx.doi.org/10.2139/ssrn.5027473>

Katuri, S. H., & Willis PhD, CPA, CGMA, V. F. (2024, April). Teaching accounting as science. In 2024 SW AAA Regional Meeting. American Accounting Association - Southwest.

Kim, H., Harjoto, M., & Laksmana, I. (2024, August). Does political risk disclosure signal CEO overconfidence, cost structure choice, and firm performance? In American Accounting Association Annual Meeting. American Accounting Association.

Pandey, V. K. (2024, Spring). TradFi or DeFi: Which is better for an investor's portfolio? In Southwestern Finance Association annual meeting: Session A9. Southwestern Finance Association.

Reynolds, J. (2023, Autumn). Teaching best practices. In Accounting Educators Conference. TXCPA.

White, K. T., & Cowart, T. W. (2024, March). Competition, copyright, and consumer privacy: AI's emerging legal and ethical challenges. In University of Texas at Tyler Center for Ethics—Ethics Day 2024.

White, K. T. (2024, August). ABLJ invited scholars colloquium-A finger in the dike: Mobilizing state health care transaction notification and corporate practice of medicine laws to scrutinize private equity investment in health care. In Academy of Legal Studies in Business Annual Conference 2024-ABLJ Invited Scholars Colloquium.

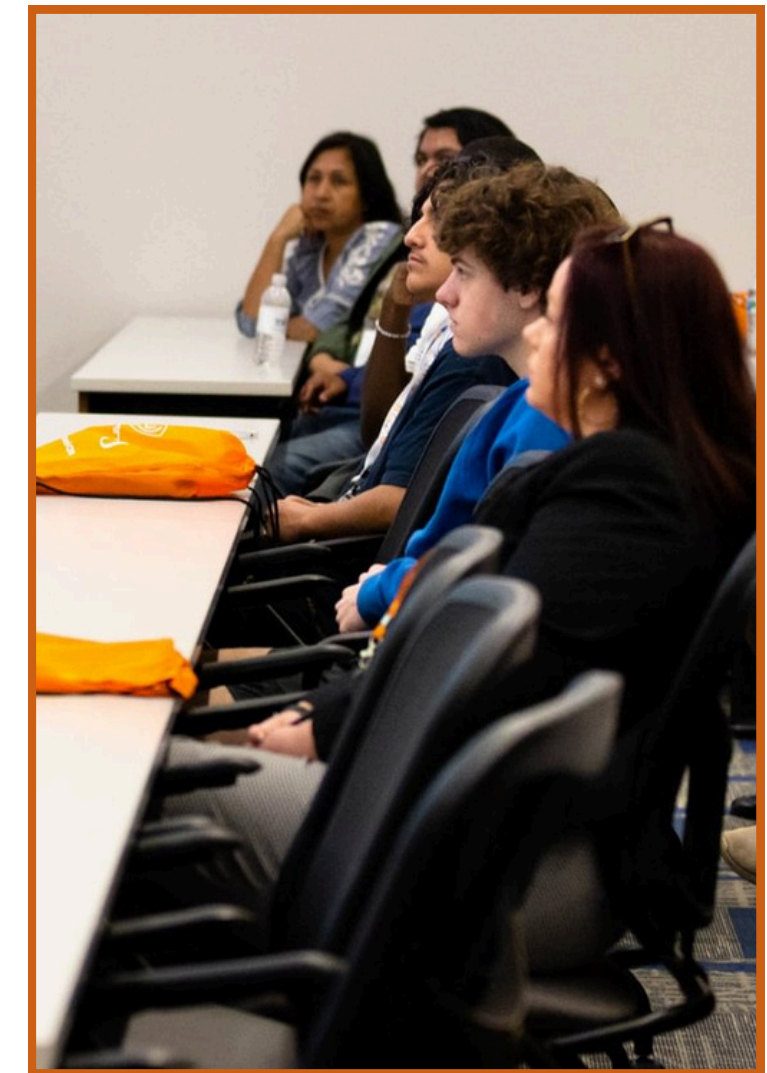
FINANCE, ACCOUNTING AND BUSINESS LAW

PRESENTATIONS

White, K. T. (2024, August). Unveiling injustice: An analysis of IRC § 7430 and the quest for fairness in taxpayer administrative and judicial proceedings with the IRS. In Academy of Legal Studies in Business Annual Conference 2024. Academy of Legal Studies in Business.

PROCEEDINGS PUBLICATIONS

Pandey, V. K. (2024). TradFi or DeFi: Which is better for an investor's portfolio? 2024 Southwestern Finance Association Annual Meeting, 2.



HUMAN RESOURCE DEVELOPMENT

CHAPTERS

Cho, Y., & Egan, T. (2024). Action learning research and practice: An informed outlook. In Handbook of Human Resource Development (2nd ed.) (pp. 175-185). Wiley.

JOURNAL PUBLICATIONS

Cho, Y., & Hyatt, B. (2023). Editorial: Reflection on the past three years (2020-2023). Human Resource Development Review, 22, 311-320.
<https://doi.org/10.1177/15344843231188220>

Cho, Y., You, J., Choi, Y., Ha, J., Kim, J., Kim, Y. H., Kang, S. H., Lee, S., Lee, R., & Kim, T. (2023). Career chance events of highly educated women with doctoral degrees in South Korea. European Journal of Training and Development, 47, 921-945.
<https://doi.org/10.1108/EJTD-04-2022-0049>

Han, H., Papanagnou, D., & Cho, Y. (2024). Guest Editorial: Bridging human resource development and health professions education through action learning. Human Resource Development Review, 23(2), 151-163.
<https://doi.org/10.1177/15344843231188248>

Jang, S., Yoo, S., Lee, J., & Lee, Y. (2023). Serving for thriving: a moderated mediation analysis of the relationship between servant leadership and thriving at work. Personnel Review, 52, 1345-1361.
<https://doi.org/10.1108/PR-08-2021-0602>

McWhorter, R. R. (2024). Virtual Human Resource Development: Definitions, Challenges, & Opportunities. Human Resource Development Review, 22, 582-601.
<https://doi.org/10.1177/15344843231188820>

McWhorter, R. R., Johnson, G., Delello, J., Young, M., & Carpenter, R. E. (2024). We have talent: Mock group interviewing improves employer perceived competence on hireability. Journal of Education for Business, 99, 345-351.
<https://doi.org/10.1080/08832323.2024.2366782>

Park, S.-H., Cho, Y., & Bong, H.-C. (2023). Action learning for community development from the lens of the UN's SDGs: A systematic review. Action Learning: Research and Practice, 20, 252-281.
<https://doi.org/10.1080/14767333.2023.2262410>

Yoo, S., Lee, Y., Lee, Y., & Bae, T. J. (2023). A cyclical model of passion and performance in new venture teams: Cross-level interactions with a lead entrepreneur's passion and passion diversity. Group & Organization Management, Advance online publication.
<https://doi.org/10.1177/10596011231215109>

HUMAN RESOURCE DEVELOPMENT

JOURNAL PUBLICATIONS

Yoo, S. (2024). Growth experience and satisfaction in healthcare project teams: The nonlinearity of autonomy and its interaction with task interdependence. Human Resource Development International.
<https://doi.org/10.1080/13678868.2024.2336867>

Yoo, S., Turner, J., Nimon, K., & Adepoju, B. (2024). Weaving layers of learning: Multiplex learning networks in the workplace. Human Resource Development Review, 23, 121-146.
<https://doi.org/10.1177/15344843231215380>

Yu, M., Dai, Y., Xu, M., Wang, G. G., & Wang, L. (2023). The effects of leaders' economic and stakeholder values on subordinates' discretionary behaviors as antecedents of perceived ethical leadership: a multilevel investigation. Current Psychology.
<https://doi.org/10.1007/s12144-023-05293-7>

POSTER PRESENTATIONS

Kang, H. R., & Yoo, S. (2024, February). Keep creative and carry on: A review of digital creativity in the workplace. 2024 AHRD International Research Conference in the Americas, Arlington, VA, USA. In 2024 AHRD International Research Conference in the Americas. AHRD.

PRESENTATIONS

Cho, Y., Park, S., & Kim, J. (2024, June). Adopting action learning to teach the United Nations' sustainable development goals in higher education. In UFHRD.

Cho, Y., Park, J., Lee, S., Yoo, J., & Yoon, S. (2024, June). Developing a typology of women leaders' resistance in the workplace. In UFHRD.

Moore, K., & Cho, Y. (2024, June). Examining the research-practice gap from the perspective of HR practitioners: A qualitative study. In UFHGD.

Yoo, S., Lee, Y., Eom, H., Heo, J. Y., & Kim, J. (2024, February). Socially embedded model of thriving with adaptive expertise: A moderated mediation model. In 2024 AHRD International Research Conference in the Americas. AHRD.

Yoo, S., Kim, S., Lee, Y., & Lim, K. (2024, August). Indicators beyond training cost: The longitudinal impact of training on organizational outcomes. In 2024 Annual Meeting of the Academy of Management. AOM.



MANAGEMENT AND MARKETING

CHAPTERS

Cater, J., & Young, M. (2024). The development and functioning of spousal ownership teams in family firms. In women in family business: New perspectives, contexts and roles. Edward Elgar Publishing. <https://doi.org/10.4337/9781802206364.00014>

JOURNAL PUBLICATIONS

Al-Shammari, M. A., Banerjee, S. N., Al-Shammari, H., & Doty, H. (2024). The interplay of CEO ability and governance robustness on the performance effects of corporate social responsibility (No. 7). 61, 1932-1965. <https://doi.org/10.1108/MD-07-2022-0957>

Al-Shammari, M. A., Brown, L. W., Banerjee, S. N., & Harris, C. M. (2024). Who needs the government? An analysis of managerial ability and corporate political activity. Group & Organization Management. <https://doi.org/10.1177/10596011231194666>

Al-Shammari, M., Shin, K., & Byun, K.-A. (2024). Exploring the impact of innovation capability and industry competitiveness on recall probability. Quality Management Journal (A).

Cater, J., Young, M., & Doty, D. H. (2023). A study of women successors in multigenerational family firms and the development of their leadership roles. International Journal of Entrepreneurship and Small Business. (IJESB), 50, 517-549. <https://doi.org/10.1504/IJESB.2023.134690>

Cater, J., Young, M., Hua, L., & Morgan, T. (2023). Examining the entrepreneurial intentions of U.S. ethnic minorities during the covid-19 pandemic. Journal of Business Diversity (JBD), 23, 37-51. DOI: <https://doi.org/10.33423/jbd.v23i4.6712>

Gulosino, C., Olson Beal, H. K., Cox, S., & Beal, B. D. (2023). An investigation of teachers' perceptions of school competitiveness and organizational work environment. Journal of School Choice, 17, 497-523. <https://doi.org/10.1080/15582159.2023.2186852>

Hendricks, J., Hancock, J., Caldas, M. P., Ostermeier, K., & Cooper, D. (2024). Moving on: exploring the implications of leader departure and incoming temporary leaders for collective turnover and unit performance. Journal of Applied Psychology. 109 (1), 61-76. <https://doi.org/10.1037/apl0001120>

Hong, J. (Jenny), & Ahn, S. (2023). The influence of K-wave on product purchase in the United States: The role of psychological distance. Journal of Product Research, 4, 117-125. doi.org/10.36345/kacst.2023.41.4.014

Mesak, H., Scott, P., & Bari, A. (2024). On the diffusion of subscription-based services: The roles of price, advertising, and customers' defection. IEEE transactions on engineering management, 71, 2212-2225. <https://doi.org/10.1109/TEM.2022.3159251>

Parker, J. M., James, K. W., Leggett, B. R., & Al-Shammari, M. (2023). The first 25 years of digital marketing education research: A thematic exploration and an agenda for future inquiry. Journal of Marketing Education, <https://doi.org/10.1177/02734753231212212>

MANAGEMENT AND MARKETING

JOURNAL PUBLICATIONS

Pei, Z., Yan, R., Ghose, S., Zhou, S., & Yan, A. (2024). The strategic value of buy online and pickup from store service to the dual channel coordination. Journal of Retailing and Consumer Services, 77, 103648. <https://doi.org/10.1016/j.jretconser.2023.103648>

Thomaz, W., Marco, P., & Caldas, M. P. (2024). Strategic planning: How it helped to resolve conflict in A new international joint venture. Journal of Business Strategy, 45, 89-97. <https://doi.org/10.1108/JBS-07-2022-0131>

Venugopal, A., Gopinathan, S., Al-Shammari, M., & Shah, T. R. (2023). A topic modeling and scientometric analysis of microfoundations of strategy research. Management Review Quarterly. <https://doi.org/10.1007/s11301-023-00379-9>

Wang, J., Pei, Z. K., Wang, Y., & Qin, Z. (2024). An investigation of income inequality through autoregressive integrated moving average and regression analysis. Healthcare Analytics, 5, 100287. <https://doi.org/10.1016/j.health.2023.100287>

Wu, X. J., Wu, D. Y., Chen, K.-Y., & Hua, L. (2023). Building socially intelligent AI systems: evidence from the trust game using artificial agents with deep learning. Management Science, 69, 7236-7252. <https://doi.org/10.1287/mnsc.2023.4782>

PRESENTATIONS

Al-Shammari, M., Byun, K.-A., & Venugopal, A. (2024, August). The effects of cognitive complexity and temporal focus on the likelihood of product recalls. In 2024 Academy of Management (AOM) Conference.

Byun, K.-A., Al-Shammari, M., James, K. W., & Camp, K. M. (2024, Spring). Effects of CEO overconfidence on customer satisfaction through resource management: The role of competitor orientation. In 2024 AMA Winter Conference.

Byun, K.-A. (2024, May). The effects of consumer orientation on digital transformation: The role of marketing experiences of top management team. In 2024 AMS Annual Conference.

Cater, J., & Young, M. (2024, Spring). Entrepreneurial effectiveness of husband/wives teams in family businesses: Communication conflict resolution, and shared values. In East Texas Research Conference. The University of Texas at Tyler.

Young, M. (2024, Spring). Tyler MSA, Smith County: A military and veteran-friendly community. In East Texas Research Conference. The University of Texas at Tyler.

PROCEEDINGS PUBLICATIONS

Al-Shammari, M., Byun, K.-A., & Venugopal, A. (2024, Summer). The effects of cognitive complexity and temporal focus on the likelihood of product recalls. Academy of Management (AOM) Conference.

Byun, K.-A. (2024, Spring). Behavioral coping strategy for organic consumption constraints and product recall. 2023 AMA Winter Conference.

TECHNOLOGY

BOOKS

Fazarro, D. E., Trybula, W., Tate, J., Hanks, C., & Sayes, C. (2023). Nano-safety: What we need to know to protect workers. 2nd Edition. De Gruyter.

JOURNAL PUBLICATIONS

Ali, M. (2023). Lean six sigma body of knowledge for healthcare industry administrators: implementation of lessons learned in applied engineering. Journal of Technology Studies, 48, 18-32.
https://scholarworks.utt Tyler.edu/tech_fac/11

Ali, M. (2023). Predictability augmentation by in-silico study to in-vivo and in-vitro results of lung doses of airborne fine and ultrafine particles inhaled by humans at industrial workplaces. Nature Environment and Pollution Technology, 22, 2023.
[https://neptjournal.com/upload-images/\(17\)D-1493.pdf](https://neptjournal.com/upload-images/(17)D-1493.pdf)

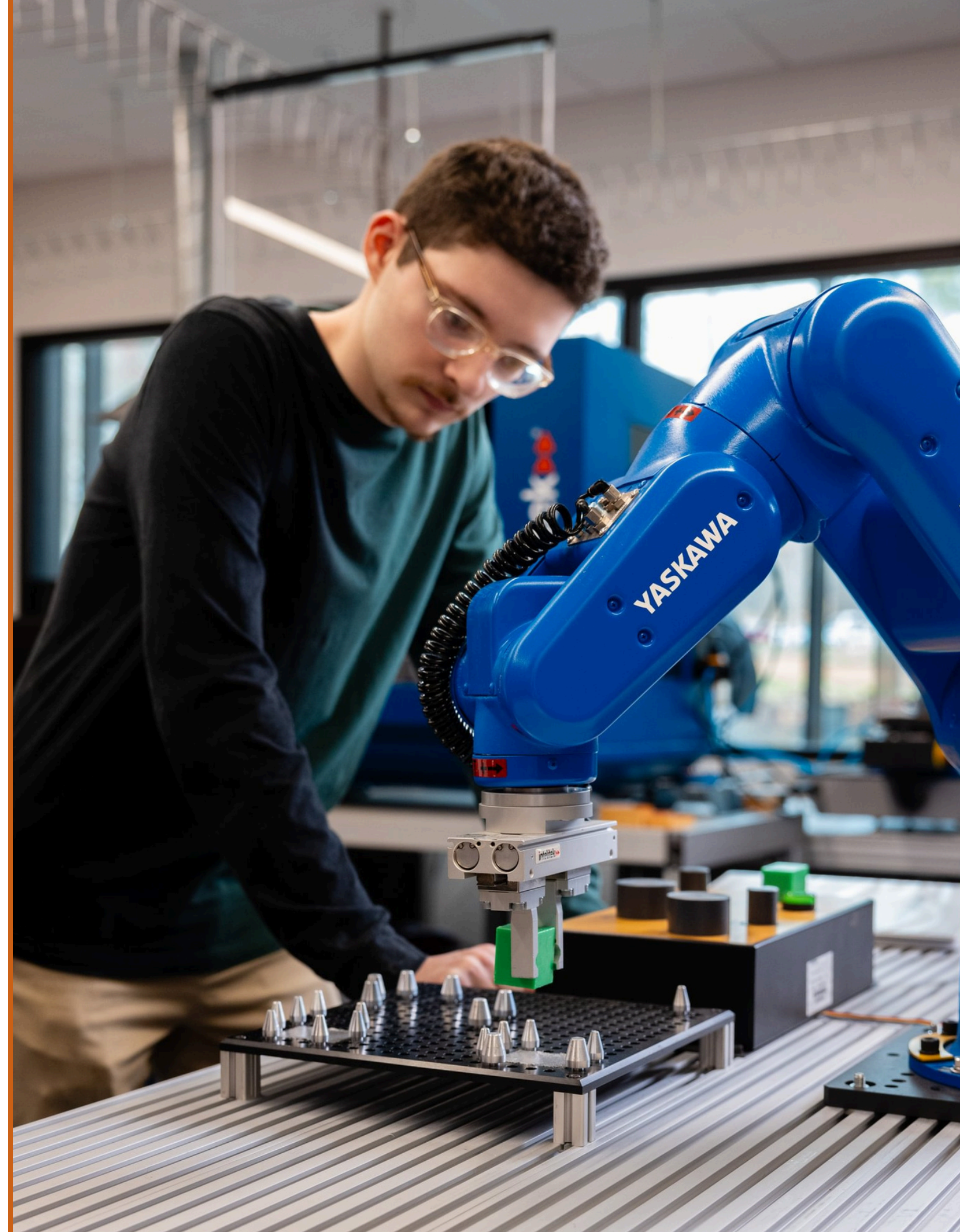
TECHNOLOGY

PRESENTATIONS

Ali, M. (2023, October). Electrodynamics processing of micro and nano pharmaceutical powders enhances blended ordered mixture. In ATMAE Annual Conference 2023. Association of Technology, Management and Applied Engineering.

Jones, D., Miller, M. R., & Lawrence, H. (2023, October). Proven motivational techniques for online courses. In Association of Technology, Management, and Applied Engineering Conference. ATMAE.

Miller, M. R., Lawrence, H., & Jones, D. (2023, October). How to use the ATMAE certification review and training sessions to supplement your courses. In Association of Technology, Management, and Applied Engineering Conference. ATMAE.





UTTyler[™]
THE UNIVERSITY OF TEXAS AT TYLER