



A Celebration of Scholarship and Creativity

ANNUAL REPORT OF
FACULTY SCHOLARSHIP

September 2021 - August 2022

From the President

The role of scholarship and creativity at institutions of higher education is to advance knowledge, by discovery, innovation or creation. This publication showcases the innovative and creative work of our faculty and students.

The advancement of knowledge is essential for the growth of our university and for the growth of the communities, states and nations that knowledge reaches.

I continue to be impressed by the community of scholars and the collective expertise that comprises this university. Our charge is to deliver higher education allowing our students to develop breadth and depth of knowledge in foundational and advanced subjects. It is imperative this learning is derived from faculty who are leaders in their fields, through their research and scholarly work.

It is in this learning process, which animates and engages students, that the next generation of teacher-scholars is borne.

Congratulations to all our scholars!

Kirk A. Calhoun, MD, FACP

President



The Robert R. Muntz Library and the Watson W. Wise Medical Research Library staffs are delighted to be an active participant in acknowledging The University of Texas at Tyler faculty's scholarly and creative works. As primary knowledge supporters for our institution, the University Libraries are here to work with, and for, our faculty in any way we can to promote their academic endeavors. We have shown our respect and admiration for this in a most profound way for the past several years via the "A Celebration of Scholarship and Creativity" event. We confirm this by our constant interactions and support for faculty and students through our librarians and staff members. On behalf of the University Libraries, I extend to you all a heartfelt congratulations on your scholarly and creative accomplishments for AY 21/22.

Becky McKay

Dean of Libraries

College of Arts & Sciences

The College of Arts and Sciences at The University of Texas at Tyler offers diverse academic programs that link learning to life through the spirit of discovery. The faculty and staff are committed to that spirit of discovery, providing first-class instruction and scholarship in the humanities, sciences, arts, and social sciences. We offer 18 baccalaureate and 11 graduate degrees, ranging from traditional humanities and sciences to the social sciences. Our students can also choose from several pre-professional programs, including pre-law, pre-theology, pre-med and pre-dental tracks.

The College of Arts and Sciences takes pride in the scholarship of our excellent faculty. The arts and sciences represent the intellectual heart and soul of any society. As such, the diversity of the contributions our faculty make to understanding and improving the world around us is important and inspiring. Our faculty and students work on projects ranging from new ways to save endangered species, to building virus-like particles for the treatment of cancer, to analyzing important works of literature, to understanding culture and the societies that develop them, to creating beautiful and meaningful works of art and musical performance, and more.

Some examples of our faculty's work include Dr. Josh Banta's work focusing on evolutionary ecology – which studies populations in their natural environments and how they change genetically and morphologically through time. Specifically, he studies rare species that are found only in Texas and surrounding regions, and how they can be protected from extinction. Dr. Lisot-Nelson, who specializes in Renaissance and Baroque art history. Her scholarship includes aesthetics, Catholic devotional imagery and post-migration theory, particularly artworks representing marginalized populations such as illegitimate children, ebrei italiani, conversos, mariscos, refugees, slaves, and servants. Dr. Ann Bebe's work focuses on Emily Dickinson, Henry David Thoreau, E. D. E. N. Southworth, and pre-1870 American leadership. Her book, *Emily Dickinson: A Companion* was published this year. There are many examples like these across the College of Arts and Sciences and we are proud of them all.

In addition, the scholars in our college produce meaningful works of art and music that make important commentaries or tell stories of beauty like the paintings of Professor Alexis Serio. Her recent solo exhibition "Time and Memory" at the prestigious Edgewater Gallery at the Falls featured several new works and paintings from Serio's Edgewater collection. Her compositions show layered shapes in rich tones that stretch out to suggest a vast imagined landscape.

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

BOOKS

Hughes, A. S. (2022). *Perennial Earth: Poetry by Wallace Stevens and paintings by Alexis Serio*. New Perennials Publishing.

CREATIVE PERFORMANCES

Hughes, D. (2021). "7th Biennial Salmon Sculpture Competition" Outdoor Exhibition. In San Angelo Museum of Fine Arts, San Angelo, Texas.

Hughes, D. (2021). "Sculpture on the Move" Group Outdoor Exhibition. In City of Ellisville, Missouri.

Hughes, D. (2021). "Sculpture on the Square" Group Outdoor Exhibition. In Trent, Ohio.

Hughes, D. (2021). "Sculpture Trail" Group Outdoor Exhibition. In West Virginia University, Morgantown, West Virginia.

Hughes, D. (2021). "Texas Sculpture Group 10th Anniversary Show." In San Angelo Museum of Fine Arts, San Angelo, Texas.

Hughes, D. (2021). "T.S.G. and Art Space 111" Group Exhibition. In Art Space 111 Gallery, Fort Worth, Texas.

Hughes, A. S. (2022, February). "Time and Memory" (solo exhibition). In Edgewater Gallery, Middlebury, Vermont.

Hughes, D. (2022). AARC Outdoor Sculpture Exhibition. Union City, Indiana.

CREATIVE PRODUCTIONS

Hughes, A. S. (2021, Autumn). *The Wallace Stevens Journal*, Volume 45 #2 Fall 2021 (oil painting as cover art).

Simmons, D. L. (2021). 2021 Art Faculty Exhibition. In The Meadows Gallery. University of Texas Tyler.

Simmons, D. L. (2021). 41st Annual Faber Birren National Color Award Show. In Stamford Art Association, Stamford, CT. Stamford Art Association.

Simmons, D. L. (2021). Visiting Artists: Marais Press Printmaking Collaboration. In College of the Arts University of Louisiana at Lafayette, Marais Press. Lafayette, LA.

Simmons, D. L. (2022, March). Wait Gain. In Dab Art Co. Venues: Ventura, Los Angeles, Mexico City, Austin. Dab Art Co. www.dabart.me

Wright, M. (2021, August 23–September 24). UT Tyler Studio Art Faculty Exhibition. In Meadows Gallery, University of Texas at Tyler. Department of Art & Art History, University of Texas at Tyler.

Wright, M. (2021, August 30–September 24). CAMEO Emerging Artist Show 2021. In College of the Mainland Art Gallery. Ceramic Art and Museum Education Organization.

Wright, M. (2021, October). Unmasked Faculty & Professionals Exhibition. In Online Exhibition. Texas Association of Schools of Art.

Wright, M. (2021, October 19–November 5). Little Things Matter: National Small-Scale Sculpture Juried Exhibition. In Gallery of Art and Design, University of Southern Mississippi. Gallery of Art and Design, University of Southern Mississippi.

Wright, M. (2022, April 8–June 26). 24th San Angelo National Ceramic Competition. In San Angelo Museum of Fine Art. San Angelo Museum of Fine Art.

Wright, M. (2022, September 11–January 31). Broken and Whole. In Museum of Biblical Art. Museum of Biblical Art.

JOURNAL PUBLICATIONS

Magnusen, K. L. (2021). "Visualizing Disease and 'Depravity' in the Weimar Republic: The Film Roles and Dance Performances of Anita Berber and Otto Dix's *Bildnis der Tänzerin Anita Berber*." *Seminar: A Journal of Germanic Studies*, 57(4), 335–359.

OTHER

Lisot-Nelson, E. A. (2022). Exhibition curated: "Misterios y Artesanías Mexicanas" ("Mysteries and Mexican Folk Art") A Selection of Works by Mexican Artists from the Tyler Museum of Art's Boeckman Collection. Department of Art and Art History, University of Texas at Tyler in Conjunction with the Tyler Museum of Art.

Art and Art History (continued)

PRESENTATIONS

Lisot-Nelson, E. A. (2021, September). "Maternal Connections: Images of Refugees, Charity and Perinatal Support." In Faculty Research Showcase, UTT Dept. of Art and Art History. UTT Dept. of Art and Art History.

Lisot-Nelson, E. A. (2022, March). "Bonaventurian Divine Emanation in Federico Barocci's Madonna del Popolo (1575-79): Images of Motherly Intercession, Charity and Grace." In The New College Conference on Medieval & Renaissance Studies, Sarasota Florida. Session title: "Maternal Connections: Portrayals of Generosity, Mercy, Compassion and Grief Inspired by Medieval and Early Modern European Art and Text".

Magnusen, K. L. (2021, September). "New Ways of Seeing: Visualizations of Disease, 'Deviant' Femininity, and Ideal Masculinity in European and American Art." In Faculty Research Showcase. Department of Art & Art History, The University of Texas at Tyler.

Magnusen, K. L. (2021, October). Remember Death: The Reworking of Traditional Representations of Mortality in Otto Dix's Paintings of Weimar Women. In German Studies Association Conference. German Studies Association.

Magnusen, K. L. (2022, January). "'Giving voice to the voiceless:' Aida Silvestri as Artist and Advocate for Survivors of FGM in Unsterile Clinic." In Southern Humanities Council Conference. Southern Humanities Council.

Simmons, D. L. (2022, January). Witness and "Withness" in Artistic Practice. In Southern Humanities Conference. Southern Humanities Council.

Wright, M. (2021, September). Gallery Talk - "Recent Work." In Meadows Gallery, University of Texas at Tyler.



Biology

JOURNAL PUBLICATIONS

Beigel, K., Matthews, A., Kellner, K., Christine, P., Greenwold, M. J., & Seal, J. N. (2021). Cophylogenetic analyses of ant-fungal specificity: "One to one with some exceptions." *Molecular Ecology*, 30(21):5605-5620. <https://doi.org/10.1111/mec.16140>

Guo, L., Zhang, X., Luo, D., Yu, R., Xie, Q., & Wu, Y. (2021). Population-level effects of polychlorinated biphenyl (PCB) exposure on highly vulnerable Indo-Pacific humpback dolphins from their largest habitat. *Environmental Pollution*, 1(286), 117544. <https://doi.org/10.1016/j.envpol.2021.117544>

Guo, Y., Yu, R., Zhang, L., Liang, Y., Liu, Z., Sun, X., & Wu, Y. (2022). Cross-Generational Impacts of Diet Shift on Bisphenol Analogue Loads in Indo-Pacific Humpback Dolphins (*Sousa chinensis*). *Environmental Science & Technology*, 56(15), 10764-10774. <https://doi.org/10.1021/acs.est.2c02222>

Senula, S. F., Scavetta, J. T., Mueller, U. G., Seal, J. N., & Kellner, K. (2022). Cold adaptations along a range limit in an obligate symbiosis. *Functional Ecology*, 36, 2267-2278. <https://doi.org/10.1111/1365-2435.14120>

Sun, X., Guo, L., Luo, D., Yu, R., Yu, X., Liang, Y., Liu, Z., & Wu, Y. (2022). Long-term increase in mortality of Indo-Pacific humpback dolphin (*Sousa chinensis*) in the Pearl River Estuary following anthropic activities: evidence from the stranded dolphin mortality analyses from 2003 to 2017. *Environmental Pollution*, 307, 119526. <https://doi.org/10.1016/j.envpol.2022.119526>

Xie, Q., Yu, R., Wang, Z., Zhang, X., & Wu, Y. (2021). Historic changes of polychlorinated biphenyls (PCBs) in juvenile and adult cetaceans from the Pearl River estuary from 2003 to 2020. *Science of The Total Environment*, 800, 149512. <https://doi.org/10.1016/j.scitotenv.2021.149512>

Yu, R., & Barkay, T. (2022). Microbial mercury transformations: Molecules, functions and organisms. *Advances in Applied Microbiology*, 118, 31-90. <https://doi.org/10.1016/bs.aambs.2022.03.001>

Zhang, X., Zhan, F., Yu, R., Sun, X., & Wu, Y. (2021). Bioaccumulation of legacy organic contaminants in pregnant Indo-Pacific humpback dolphins (*Sousa chinensis*): Unique features on the transplacental transfer. *Science of the Total Environment*, 785, 147287. <https://doi.org/10.1016/j.scitotenv.2021.147287>

Zhang, X., Luo, D., Yu, R., & Wu, Y. (2022). Multilocus DNA metabarcoding diet analyses of small cetaceans: A case study on highly vulnerable humpback dolphins and finless porpoises from the Pearl River Estuary, China. *Integrative Zoology*, 18, 1-16. <https://doi.org/10.1111/1749-4877.12640>

Zhang, X., Xie, Q., Yu, R., & Wu, Y. (2022). Temporal trends of alternative halogenated flame retardants in humpback dolphins from the South China Sea. *Environmental Science & Technology*, 56(8), 5037-5048. <https://doi.org/10.1021/acs.est.1c08636>

OTHER

Kellner, K. (2021). Final Report - Microbiomes of harvester ants - do ants use biological control to protect their seed deposits? Office of Sponsored Research.

POSTER PRESENTATIONS

Aquilar, C., & Greenwold, M. J. (2022, May). Phenotypic Plasticity of A Cryptophyte Alga in Different Light Environments. In Joint Aquatic Sciences Meeting 2022.

Romero, A., Hunt, J., Hamouda, A. K., & Bill, B. R. (2022, February). Optimizing 6-Hydroxydopamine Concentrations for induction of a Parkinson's Disease Like Behavior in Zebrafish. In Texas Academy of Science 125th Annual Meeting. Texas Academy of Science.

Romero, A., Hunt, J., Bill, B. R., & Hamouda, A. K. (2022, April). Optimizing 6-Hydroxydopamine Concentrations for induction of a Parkinson's Disease Like Behavior in Zebrafish. In Experimental Biology Meeting. American Society for Pharmacology and Experimental Therapeutics.

Woolman, B., & Bill, B. R. (2022, February). CRISPR/CAS9 Generation for the Zebrafish, *ahdc1* Gene. In Texas Academy of Science 125th Annual Meeting.

PRESENTATIONS

Beigel, K., Bringhurst, B., & Seal, J. N. (2021, Autumn). A reevaluation of the diffuse coevolution model in *Trachymyrmex* ants. In Annual Meeting of the Entomological Society of America. Annual Meeting of the Entomological Society of America.

Florova, G. O. (2021, May). Targeting the Plasminogen Activator Inhibitor 1 Mechanism for Treatment of Advanced *Empyema* in Rabbits. In American Thoracic Society. NIH.

Greenwold, M. J., Richardson, T. L., & Dudycha, J. L. (2022, May). Do phylogenomic analyses of the phylum Cryptophyta provide taxonomic resolution or uncertainty? In Joint Aquatic Sciences Meeting 2022.

Kattel, P., & Greenwold, M. J. (2022, February). Comparative Genomic Analysis of Cryptophyte Algae Plastid Genomes. In Texas Academy of Science (TAS).

Netti, M. B., & Greenwold, M. J. (2022, May). Understanding Resource Partitioning in a Multi-Species Mussel Bed to Promote Mussel Conservation. In Joint Aquatic Sciences Meeting 2022.

Ross, A., Locke, A., Hennekes, M., Nemcek, N., Shannon, H., Sastri, A., Perry, I., Johnson, S., Shartau, R., & Turcotte, L. (2022, April). Biotoxins in British Columbia Coastal Waters. In WCVI Chinook Risk Assessment Workshop #3. Fisheries and Oceans Canada.

Schubert, N., Banta, J. A., Smith, S.-L., & Kellner, K. (2022, Spring). Niche Modelling of Crayfish in Central Texas. In Texas Academy of Science Annual Meeting. Texas Academy of Science.

Seal, J. N., & Bringhurst, B. (2021, Autumn). Consequences of horizontal fungal exchange on the bacterial microbiome of fungus-gardening ants and their fungal symbionts. In Annual Meeting of the Entomological Society of America. Entomological Society of America.

Smith, S.-L., Banta, J. A., Schubert, N., & Kellner, K. (2022, Spring). Comparison of Species Presence Found using Physical Specimens Collected versus using eDNA Methods. In Texas Academy of Science Annual Meeting. Texas Academy of Science.

Smith, S.-L., Banta, J. A., Schubert, N., & Kellner, K. (2022, Spring). Comparison of Species Presence Found using Physical Specimens Collected versus using eDNA Methods. In Southwestern Association of Naturalists Annual Meeting. Southwestern Association of Naturalists.

Biology (continued)

GRANTS

Azghani, A. Genetic Determinants of Antibiotic Resistance in *Pseudomonas aeruginosa* Clinical Isolates, University of Texas at Tyler (September 1, 2021), USD \$5,000.

Banta, J. Life history tracking of an East Texas freshwater mussel in two rivers, University of Texas at Tyler (September 1, 2021), USD \$6,270.

Greenwold, M. Resource Partitioning by Freshwater Mussels in a Multispecies Assemblage, University of Texas at Tyler (September 1, 2021), USD \$7,397.

Williams, L. Investigation into the Genetic Relationship between the Calcasieu & Teche Painted Crayfish, Louisiana Department of Wildlife & Fisheries (May 1, 2022), USD \$18,862.

Yu, R. MRI: Acquisition of Tekran mercury speciation system for mercury biotransformation and ecotoxicology research and training at UT Tyler, National Science Foundation (September 1, 2021), USD \$112,576.

Chemistry and Biochemistry

POSTER PRESENTATIONS

Griffin, C. M., Binkley, K. A., Smeed, J. J., & Boyd, L. E. (2022, March). American Chemical Society Student Chapter at UT Tyler. In ACS National Meeting. American Chemical Society.

GRANTS

Mason, R. Joint Admission Medical Program FY2022, Joint Admission Medical Program Council (September 1, 2021), USD \$12,779.

Communication

CREATIVE PRODUCTIONS

Britt, T. L., & Ross, C. E. (2022, May). Mentorship and Finding Courage. In Radio. KVUT.

JOURNAL PUBLICATIONS

Marsh, J., & Day, A. (2021). "I needed her and she needed me": Understanding children-in-law and parents-in-law relationships through the Health Belief Model. *Texas Speech Communication Journal*, 45(1), pp.42-57.

Yergensen, B. (2021). The Holy Grail of physics: Division and unification in the string theory movement. *The Midwest Quarterly*, 63(1), 24–36.

Yergensen, B. (2022). Coronation in physics: String theory and the pursuit of the Theory of Everything. *Journal of Religion & Society*, 24(1), 1–13.

Yergensen, B., & Church, S. H. (2022). The rhetorical interlude as foreshadow and strategy: The 'Burbs and defeating horror villains at the end of the Cold War. *Popular Culture Studies Journal*, 10(1), 278–294.

PRESENTATIONS

Day, A., Volkman, J., Morse, C., & Hokeness, K. (2021, Spring). Risk perceptions related to vaccines and the covid-19 vaccine: Exploring the utility of the PRISM framework. In National Communication Association Conference. National Communication Association.

Day, A., O'Shay, S., Islam, K., & McElmurry, S. (2021, Autumn). Boil water notices and the 2021 winter storm in Texas and Oklahoma. In National Communication Association Conference. National Communication Association.



Literature and Languages

BOOKS

Beebe, A. (2022). *Emily Dickinson: A Companion*. McFarland & Company.

CHAPTERS

Bock, G. L., & Cook, J. (2022). Forgiveness and Racism: Answering the Condonation and Resignation Objections. In *Forgiveness Confronts Race, Relationships, and the Social* (pp. 39–52). Vernon Press.

CREATIVE PRODUCTIONS

Propper, T. (2022, June). "Sea to See". *Taj Mahal Review International Literary Journal*. 22(1).

Propper, T. (2022, June). "To a Statue of Mary (7:45PM)". In *Literature Today*.

JOURNAL PUBLICATIONS

Bock, G. L. (2021). The Trouble with Inferring Divine Punishment: A Response to James S. Spiegel. *The Journal of Biblical and Theological Studies*, 6(1), 135–141.

Kelly, M., & Propper, T. (2021). Ethos and Dwelling in the University: Using Online Writing Projects to Help Students Navigate Institutional Spaces and Classroom Experiences. *Composition Forum*, 47.

Woll, N., & Paquet, P.-L. (2021). Developing crosslinguistic awareness through plurilingual consciousness-raising tasks. *Language Teaching Research*. <https://doi.org/10.1177/13621688211056544>

PRESENTATIONS

Beebe, A. (2021, September). "Bachelors in Washington Irving and Kate Chopin: Heroes, Saints, or Outlaws." In Louisiana Studies Conference.

Beebe, A. (2021, November). "'Will no one guide a little boat': Emily Dickinson and Thomas Cole. In PAMLA Conference.

Bock, G. L. (2021, October). Is There a Duty to Get Vaccinated? In Annual Meeting of the Concerned Philosophers for Peace. Concerned Philosophers for Peace.

Paquet, P.-L., Woll, N., & Wouters, I. (2022, March). Language as a vehicle or as a resource? The nature of metalinguistic reflection in a plurilingual consciousness-raising task. In American Association of Applied Linguistics.

Propper, T., Wu, H., & Kelly, M. (2022, January). Reshaping the English Graduate Program to Occupy the Market. In Modern Language Association Annual Conference. MLA.

Ross, C. E. (2022, April). It's not Cheating or Ruining the Story, it is Student-Based Teaching. In UT System Teachers Conference, "Going the Distance: What We Can Do by Min(d)ing the Gaps in Teaching and Learning," UT System Academy of Distinguished Teachers.

Strong, D. (2022, June). A Phenomenological Study of King Lear and the Fool. In Rocky Mountain Medieval and Renaissance Conference. Rocky Mountain Medieval and Renaissance Association.

Wouters, I., Jasor, I., Woll, N., & Paquet, P.-L. (2022, April). De la théorie à l'action: l'implantation d'un modèle d'enseignement translinguistique-communicatif dans les cours de Lx. In 10th Meeting on Language Teaching. University of Quebec at Montreal.

Wu, H. (2021, December). What Humanities Can Do for the Global Economy? In Special Session. Tyler Service Rotary Club.

Wu, H., Kelly, M., & Propper, T. (2022, Spring). Reshaping the English Graduate Program to Occupy the Market. In Modern Language Association (MLA) Annual. MLA (Modern Language Association of America).

Wu, H. (2022, March). Diversifying Instruction of Rhetoric through Sources for Global Rhetorical Traditions. In College Conference for Composition and Communication. National Council for Teachers of English. https://files.aievolution.com/prd/nct2101/events/61513/000_0_0_Lloyd_OD82_0227_202739.mp4

Wu, H. (2022, May 26–29). Meanings of Genre Study in Global Rhetorical Traditions. In Rhetoric Society of America Conference. Rhetoric Society of America.

Literature and Languages (continued)

PUBLICATIONS

Wu, H. (2022, Summer). Genre as a Comparative Method: The Case of Classical Chinese Rhetoric. In International Society for the History of Rhetoric. International Society for the History of Rhetoric.

Wu, H. (2022, August). Special Panel on Global Rhetorical Traditions. In Conference of International Society for the History of Rhetoric. International Society for the History of Rhetoric.

PROCEEDINGS PUBLICATIONS

Jessop, A. K. (2022, Summer). Awarded Participant, National Endowment for the Humanities (NEH) Summer Institute for university faculty. NEH Summer Institute: "Making Modernism: Literature, Dance, and Visual Culture in Chicago, 1893-1955" (July 18 - August 5, 2022).

REVIEWS

Beebe, A. (2021). Review of Quiet Desperation, Savage Delight: Sheltering with Thoreau in the Age of Crisis (David Gessner) [Review of Quiet Desperation, Savage Delight: Sheltering with Thoreau in the Age of Crisis (David Gessner)]. Thoreau Society Bulletin.

Bock, G. L. (2021). Charitable Writing: Cultivating Virtue through Our Words [Review of Charitable Writing: Cultivating Virtue through Our Words]. 33–36. International Journal of Christianity & English Language Teaching.

Strong, D. (2021). Is Chaucer Rejecting Predestination in Troilus and Criseyde? [Review of Is Chaucer Rejecting Predestination in Troilus and Criseyde?]. Humanities-MDPI.

Strong, D. (2022). Tearing feollon: Tears and Weeping in Old English Literature [Review of Tearing feollon: Tears and Weeping in Old English Literature]. Humanities-MDPI.

GRANTS

Jessop, A. A Recovered Screen Play: Laura Riding's 'Greeks and Trojans' (c. 1937), University of Texas at Tyler (September 1, 2021), USD \$7,500.



Mathematics

JOURNAL PUBLICATIONS

Archer, K., & Graves, C. (2022). Pattern restricted permutations composed of 3-cycles. *Discrete Mathematics*, 345(7), 1-15. <https://doi.org/10.1016/j.disc.2022.112895>

Carton, O., & Vandehey, J. (2021). Preservation of normality by non-oblivious group selection. *Theory of Computing Systems*, 65(2), 241–256. <https://doi.org/10.1007/s00224-020-09998-1>

Dawsey, M. L., & Sharp, B. (2022). Self-conjugate t-core partitions and applications. *Australasian Journal of Combinatorics*, 82(2), 212–227. <https://doi.org/10.48550/arXiv.2110.15837>

Dawsey, M. L., Russell, T., & Urban, D. (2022). Derivatives and Integrals of Polynomials Associated with Integer Partitions. *Journal of Integer Sequences*, 25(22.5.1), 1-18. <https://doi.org/10.48550/arXiv.2108.00943>

PRESENTATIONS

Anders, K. (2021, Autumn). Graphs admitting only constant splines over \mathbb{Z}_m . In Texas Number Theory and Combinatorics Seminar.

Anders, K. (2022, Spring). Characteristics of graphs admitting only constant splines over \mathbb{Z}_m . In CombinaTexas.

Anders, K. (2022, Spring). Graph splines: From the basics to a characterization of graphs admitting only constant splines over \mathbb{Z}_m . In Stephen F. Austin State University Department of Mathematics Colloquium.

Bearden, C. A. (2022, February). Amenability of C^* -dynamical systems. In IPM Workshop on Operator Algebras and their Applications. IPM (Tehran, Iran).

Bearden, C. A. (2022, May). Amenability of C^* -dynamical systems. In Great Plains Operator Theory Symposium. Washington University in St. Louis.

Bearden, C. A. (2022, June). Amenable actions of locally compact groups. In Great Plains Operator Theory Symposium.

Mathematics (continued)

PRESENTATIONS

Dawsey, M. L. (2022, Spring). A new partition statistic and applications. In Texas Number Theory and Combinatorics Seminar. UT Tyler and UTRGV.

Dawsey, M. L. (2022, Spring). A new partition statistic. In Joint Mathematics Meetings Special Session “Early career number theory research with combinatorics, modular forms, and basic hypergeometric series.”

Dawsey, M. L. (2022, Spring). A new partition statistic. In Southern Regional Number Theory Conference.

Dawsey, M. L. (2022, Spring). A new partition statistic. In Texas A&M Number Theory Seminar.

Dawsey, M. L. (2022, Spring). Interdisciplinary Mathematics Research. In East Texas Research Conference.

Dawsey, M. L. (2022, Summer). Student Workshop on Ranks and Cranks. In NSF-CBMS Regional Research Conference Series: Ramanujan’s Ranks, Mock Theta Functions, and Beyond.

Vandehey, J. A. (2021, September). Descriptive set complexity and normality of numbers. In Texas Number Theory and Combinatorics Seminar.

PROCEEDINGS PUBLICATIONS

Dawsey, M. L., & McCarthy, D. (2021). Hypergeometric Functions over Finite Fields and Modular Forms: A Survey and New Conjectures. *Baylor Analysis Fest - From Operator Theory to Orthogonal Polynomials, Combinatorics, and Number Theory, Operator Theory: Advances and Applications, Volume 285*, Eds. F. Gesztesy and A. Martinez-Finkelshtein, 41–56.

GRANTS

Milan, D. (PI), and Graves, C (Co-PI). REU Site: Algebra, Graphs, and Number Theory at UT Tyler, National Science Foundation (May 1, 2022), USD \$311,154.

Music

CREATIVE PERFORMANCES

Gullings, K. (2021, October). Performance of Kyle Gullings’ original composition “the flow of how things will go” by Dr. Sarah Roberts (soprano saxophone) and Dr. Kyle Gullings (interactive electronics). College Music Society National Conference. Rochester, NY: Eastman School of Music.

Gullings, K. (2021, October). Performance of Kyle Gullings’ original composition “Jazz Chowder” by Dr. Sarah Roberts (soprano saxophone) and Dr. Kyle Gullings (piano). School of Performing Arts Showcase. Tyler, TX: University of Texas at Tyler.

Gullings, K. (2022, April). Commissioned performance of Kyle Gullings’ original composition “Trio for Trumpet, Cello & Piano” by Gavin Clarke (trumpet), Anna Grace Hardin (cello), and Mason Thomas (piano). Gavin Clarke Senior Trumpet Recital. Tyler, TX: University of Texas at Tyler.

Park, S. E. (2021, December 7). Tidings of Joy Concert Series. In Dr. Sooah Park Solo Recital. Christ Church, Episcopal.

Park, S. E., & Lee, P. (2021, December 16). Music On The Square. In Christmas Concert. First Presbyterian Church of Longview.

PRESENTATIONS

Park, S. E. (2022, July). The Cultural Crossroads on Gagok (Korean Art Song): Achieving DEI Education and the Pedagogical Advantages through the Repertoire. In The National Association of Teachers of Singing 57th National Conference. The National Association of Teachers of Singing (NATS).

Political Science and History

BOOKS

Stadelmann, M. A. (2021). *First Ladies for Dummies* (p. 315). John Wiley & Sons, Inc.

CHAPTERS

Goldmann, E., Hagen, D., El Khoury, E., Owens, M., & Thruel, J. (2021). An examination of racial/ethnic differences in mental health during COVID-19 pandemic in the U.S. South. *Journal of Affective Disorders*, 295(1), 471–478. <https://doi.org/10.1016/j.jad.2021.08.047>

Guderjan, T. H., & Snider, C. (2021). The Dynamics of Dynasty, Power and Creation Myths embedded in Architecture: A case study from Blue Creek, Belize. In *The Myths of the Popol Vuh in Cosmology and Practice*. University of Colorado Press.

Howard, N., & Owens, M. (2022). Organizing Staff in the U.S. Senate: The Priority of Individualism in Resource Allocation. *Congress & the Presidency*, 49(1), 60-83. <https://doi.org/10.1080/07343469.2020.1817175>

Johnson, R. M., Crifasi, C., Goodell, E. M. A., Owens, M., Wisniowski, A., Sakshaug, J., & Thrul, J. (2021). Differences in beliefs about COVID-19 by gun ownership: a cross-sectional survey of Texas adults. A study of Texas adults. *British Medical Journal Open*, 11(11), 1-7. <https://doi.org/10.1136/bmjopen-2020-048094>

JOURNAL PUBLICATIONS

Owens, M. (2021). Changes in Attitudes, Nothing Remains Quite the Same: Absentee Voting and Public Health. *Social Science Quarterly*, 102(4), 1349-1360. <https://doi.org/10.1111/ssqu.13011>

Wahlrab, A., & Wahlrab, T. (2022). Welcome Dayton: glocalization, the global mobility of people, and ethically engaged activist citizens. *Globalizations*, 1–24. <https://doi.org/10.1080/14747731.2022.2035053>

PRESENTATIONS

Dotson, M. R. (2021, Autumn). Fighting the Pulpit: The Dallas Gay Community and Their Resistance to a Cultural Holy War. In The Southern Historical Association.

Dotson, M. R. (2022, February). Fighting the Pulpit: The Dallas Gay Community and Their Resistance to a Cultural Holy War. In Texas State Historical Association.

LeBlanc, J. R. (2021, Autumn). The Spectral Palestinian: Liminality and Politics in Darwish’s In the Presence of Absence. In Association for Political Theory Annual Meeting. Association for Political Theory.

Link, M. (2021, October). Irish women in World War I medicine and postwar remembrance in the Irish Free State. In Northeastern Conference on British Studies. McGill University.

Link, M. (2022, February). World War I, Women in Medicine, and the Irish Free State. In World History Association of Texas. St. Edward’s University.

Mwanzia Koster, M. (2021, November). Back to African Again: New Trends in African American Migration Patterns to Africa. In Speaker, University of Central Arkansas, Department of African and African American Studies. University of Central Arkansas, Department of African and African American Studies.

Mwanzia Koster, M. (2021, November). How Will We Remember Kenya Now? The Legacy of Richard Ambani, The Kenyan National Archives and The Challenges and Opportunities of Processing Kenyan History. In African Studies Association Conference. African Studies Association.

Mwanzia Koster, M. (2022, April). Decolonizing Africa: A Critical Examination of Methodologies in African Studies. In African Studies Association of Africa, Conference, Cape Town, South Africa. University of Cape Town.

Owens, M., & Owen, K. (2022, March). Redistricting in Texas: Public Interest and Opinion. In Citadel Symposium on Southern Politics. The Citadel.

Owens, M. (2022, April). Arts & Sciences. In East Texas Research Conference. Office of Research.

Snider, C. (2022, March). Localizing Memory: Universities, Truth Commissions, and Narratives of Repression in Brazil. In Brazilian Studies Association biennial international conference.

Snider, C. (2022, March). Situating Universities in National Memory Projects: Local Truth Commissions in Brazil. In Southeastern Council on Latin American Studies annual international conference.

Sterken Jr., R. E. (2021, September). Protecting Religion: Consequences for the Majority Religion in Myanmar. In 14th International Burma Studies Conference Political Crisis, Social Resilience and Cultural Vibrance in Myanmar New Dates: September 16 - 19, 2021. Center for Burma Studies.

Political Science and History (continued)

REVIEWS

Owens, M. (2021). Review of Jonathan Lewallen, Committees and the Decline of Lawmaking in Congress [Review of Review of Jonathan Lewallen, Committees and the Decline of Lawmaking in Congress]. Congress & the Presidency.

GRANTS

Owens, M. COVID-19 Vaccine Hesitancy and Confidence (COVAHC) Survey: A Rapid Community Assessment in Texas, Department of State Health Services (February 2, 2022), USD \$ 1,081,430.

Social Sciences

BOOKS

Owens, M., Wink, K. A., & Bryant, K. (2022). *Battle for the Heart of Texas: Political Change in the Electorate* (p. 210). University of Oklahoma Press.

CHAPTERS

Guderjan, T. H., & Snider, C. (2021). The Dynamics of Dynasty, Power and Creation: Myths Embedded in Architecture. A Case Study from Blue Creek, Belize. In *The Myths of the Popol Vuh in Cosmology and Practice* (pp. 117–136). University Presses of Colorado.

Link, M. (2022). Anna Pavlova. In *Women Who Changed the World: Their Lives, Challenges, and Accomplishments through History*. ABC - CLIO.

Link, M. (2022). Margarethe Zelle (Mata Hari). In *Women Who Changed the World: Their Lives, Challenges and Accomplishments through History*. ABC - CLIO.

Link, M. (2022). Maria Bochkareva. In *Women Who Changed the World: Their Lives, Challenges, and Accomplishments through History*. ABC - CLIO.

Link, M. (2022). Sophia Duleep Singh. In *Women Who Changed the World: Their Lives, Challenges, and Accomplishments through History*. ABC - CLIO.

CREATIVE PRODUCTIONS

Cregler, A. V. (2021). Amplify East Texas. collaboration with The Tyler Loop.

JOURNAL PUBLICATIONS

Bailey, D. J. S., & Schooley, M. (2022). An Exploratory Examination of STEM Education and Forensic Science Knowledge of Criminal Justice Professionals. *Lone Star Journal*.

Guderjan, T. H., Kwoka, J., Eschleman, S., Ruhl, T., Beach, T., Luzzadder-Beach, S., McClatchy, W., & Bascope, G. (2021). A Multimethod Approach to the Study of Classic Maya Houselots and Land Tenure: Preliminary Results from the Three Rivers Region, Belize. *Journal of Archaeological Science-Reports*, 38, 1030–1049. <https://doi.org/10.1016/j.jasrep.2021.103049>

Guderjan, T., Sills, E. C., Hanratty, C., Eppich, K., Regnier, A., Simmons, C., Souther, A., & Walters, M. (2021). The 62nd Annual Caddo Conference and the 27th Annual East Texas Archeological Conference, Tyler, Texas, February 28 and 29, 2020. *Caddo Archaeology Journal*, 31, 119–121.

Helfers, R. C., Scott, D., & Easley, C. L. (2021). Police officers' perceptions of their mental health preparedness training in a southern (US) state. *Journal of Crime and Criminal Behavior*, 1(1), 1–19.

Helfers, R. C., Jones-Brown, D., & Boyd, L. M. (2022). Guest editorial: Policing in the aftermath of the 2020 protests: Lessons learned and evolving strategies for reform. *Policing: An International Journal*, 45(4), 541–555. <https://doi.org/10.1108/PIJPSM-08-2022-200>

Helfers, R. C., & Nhan, J. (2022). A qualitative study: An examination of police officers' preparedness and experiences with the COVID-19 pandemic. *International Criminal Justice Review*, 32(3), 308–327. <https://doi.org/10.1177/10575677211050427>

Helfers, R. C., & Reynolds, P. D. (2022). Anti-police sentiment, perceived organizational support, and perceived danger among police officers in a post-Ferguson Era. *Journal of Criminal Justice and Popular Culture*, 22(1), 20–38.

McKillop, H., & Sills, E. C. (2021). Briquetage and Brine: Living and Working at the Classic Maya Salt Works of Ek Way Nal, Belize. *Ancient Mesoamerica*, 1–23. <https://doi.org/10.1017/S0956536121000341>

Smith, R., Helfers, R. C., & Reynolds, P. D. (2022). Anti-police sentiment and police victimization in the UK. *Policing: A Journal of Policy and Practice*, 16(1), 1–12. <https://doi.org/10.1093/police/paab045>

OTHER

Guderjan, T. H., & Sills, C. (2021). Documenting Caddo Pots.

Helfers, R. C., Jones-Brown, D., & Boyd, L. M. (Eds.). (2020–2022). Special Edition: Policing in the aftermath of the 2020 protests: Lessons learned and evolving strategies for reform. *Policing: An International Journal*.

POSTER PRESENTATIONS

Bailey, D. J. S. (2022, February). Teaching, Learning, & Scholarship (TLS) Teaching Tips [Video]. In *ACJS Today*. Academy of Criminal Justice Sciences.

Gautier, L. (2021, November). Environmental Policy Design for the Olive Oil Sector. In *Research Seminar, Dept of Economics, University Complutense, Madrid*. Dept of Economics, University Complutense, Madrid.

Gautier, L. (2022, June). Environmental Policy for the Olive Oil Sector. In *WEAI Conference*. Association of Environmental and Resource Economists.

Helfers, R. C., Reynolds, P. D., & Smith, R. (2022, Spring). Perceptions of US and UK Police Officers Concerning Anti-Police Sentiment and Fear of On-Duty Victimization. In *Annual Meeting of the Academy of Criminal Justice Sciences*.

Klein, J. L., Bailey, D. J. S., Cooper, D. T., & Sample, L. L. (2022, March). [CANCELED] Contextualizing the Effects of Sexual Offender Registration and Notification (SORN) Policies on Employment and Economic Status of Individuals Convicted of Sexual Offenses (Part 1). In *Academy of Criminal Justice Sciences annual conference*.

McKillop, H., & Sills, E. C. (2021, Autumn). Wooden architecture and associated artifacts at Submerged Classic Maya Salt works indicate more than salt production. In *European Association of Archaeologists Annual Conference*. European Association of Archaeologists.

McKillop, H., & Sills, E. C. (2021, November). Labor Relations in a Traditional Complex Society. In *American Anthropological Association Annual Meeting*. American Anthropological Association.

Saygili, M., & Bayindir, E. E. (2021, November). How Would the Medicaid Expansion Affect Texas? In *The Southern Economic Association 91st Annual Meeting*.

Sills, E. C., & McKillop, H. (2021, November). Single-Use or Multi-Use Household Production? Using Sediment Chemistry to Define Ancient Activities. In *American Anthropological Association Annual Meeting*. American Anthropological Association.

Sills, E. C., & McKillop, H. (2021, November). Symposium: Ancient Maya Surplus Household Production at the Paynes Creek Salt Works, Belize. In *American Anthropological Association, Baltimore November 17-21, 2021*. American Anthropological Association.

GRANTS

Sills, E. C. (PI), and Guderjan, T. (Co-PI). Documenting caddo Funeral Pots: Preserving East Texas Past using 3D Imaging, University of Texas at Tyler (September 1, 2021), USD \$7,489.

College of Education & Psychology

The College of Education and Psychology is proud to recognize the research and scholarship efforts of our faculty, students, and staff. This work often represents collaborative efforts that transcend disciplinary boundaries, are responsive to the communities in which we live as well as to communities of learners and scholars, and these efforts often innovate in response to needs.

Faculty, staff and students in the College are organized into 3 units, the Department of Psychology and Counseling led by Chair Dr. Amy Hayes, the School of Education led by Interim Director Dr. Yanira Oliveras, and the University Academy, a K-12 charter school with three campuses in Longview, Palestine, and Tyler, led by Dr. Jo Ann Simmons.

As a college we represent three disciplines, counseling, education, and psychology. We excel in teaching and offer 4 bachelor's, 8 master's and 2 doctoral degrees along with 2 certification programs, 5 College centers, and K-12 STEM education. Dr. Simmons partners with the University to help bring the new Early Career Development Center (or "daycare") to fruition, which we envision will be a center for staff, faculty, and students.

The purpose of this publication is to celebrate scholarship and creative activity for the past academic year. In the period being recognized, members of the College of Education and Psychology participated in over 20 funded grant projects which included federal or international funding from the Department of Defense, the Substance Abuse and Mental Health Services Administration, and the Consortium for Belize Educational Cooperation. We also had funding from various national and regional foundations and organizations.

During this period, we have published and presented in diverse venues consistent with the mission and vision of the College and University. This includes journal articles, book chapters, books, presentations, colloquia, and conferences that were presented within national and international research societies, in community groups, in schools, in mental health settings, and more.

I am pleased to be able to congratulate faculty, staff, and students on your continued accomplishments in research and scholarship endeavors.

Sarah Sass, Ph.D.

Interim Dean

Psychology and Counseling

JOURNAL PUBLICATIONS

Anderson, A. R., Kurz, A. S., Szabo, Y. Z., McGuire, A. P., & Frankfurt, S. B. (2022). Exploring the longitudinal clustering of lifestyle behaviors, social determinants of health, and depression. *Journal of Health Psychology, 27*(13), 2922-2935. <https://doi.org/10.1177/13591053211072685>



Barnett, M. D., & Hephrey, J. H. (2022). Who wants to live forever? Age cohort differences in attitudes toward life extension. *Death Studies, 57*, 1-4. <https://doi.org/10.1016/j.jaging.2021.100931>

Berkout, O., & Clair, S. (2021). Facing pandemic challenges: Helping health care professionals cope. *Behavior Analysis: Research and Practice, 22*(1), 100-113. <https://doi.org/10.1037/bar0000235>

Ceballos, P. L., Lemberger-Truelove, M. E., Molina, C. E., Laird, A., & Carbonneau, K. J. (2021). Culturally diverse middle school students' perceptions of a social and emotional learning and mindfulness school counseling intervention. *Journal of Child and Adolescent Counseling, 7*(2), 72-86. <https://doi.org/10.1080/23727810.2021.1948809>

Estrada, S., Floren, M., Harding, J., & Wroblewski, M. (2021). What is Your Research Question? A Mixed Methods Evaluation of an Academic Statistical Consulting Center. *Evaluation and Program Planning, 89*, 1-9. <https://doi.org/10.1016/j.evalprogplan.2021.102001>

Grad, R. I. (2021). Therapeutic alliance and childhood interpersonal trauma: The role of attachment, cultural humility, and therapeutic presence. *Journal of Counseling and Development, 100*(3), 296-307. <https://doi.org/10.1002/jcad.12423>

Hardesty, D. R., Chek, C., Persin, M., Barr, E., Sasser, H., Glover, T., Coldiron, A., Parsons, T. D., & Barnett, M. D. (2021). A-12 Relationships between performance on the virtual environment grocery store and adaptive functioning among older adults. *Archives of Clinical Neuropsychology, 36*(6), 1052. <https://doi.org/10.1093/arclin/acab062.30>

Harrop, T. H., Anestis, J. C., Preston, O. C., Arnau, R. C., Green, B. A., & Anestis, M. D. (2021). A comparison of psychopathic trait latent profiles in service members. *Journal of Psychopathology and Behavioral Assessment, 43*(3), 532-544. <https://doi.org/10.1007/s10862-021-09872-5>

Hayden, C. L., Szabo, Y. Z., Anderson, A. R., Frankfurt, S. B., & McGuire, A. P. (2021). Social interaction within a trauma-exposed population during the early phase of COVID-19. *Journal of Loss and Trauma, 1*-17. <https://doi.org/10.1080/15325024.2020.1856608>

Hayes, A. R., & Lee, D. (2022). Women, work, and families during the COVID-19 Pandemic: Examining the Effects of COVID Policies and Looking to the Future. *Journal of Social Issues, 1*-18. <https://doi.org/10.1111/josi.12510>

Kemer, G., Li, C., Attia, M., Chan, C. D., Chung, M., Li, D., Neuer Colburn, A., Peters, H. C., Ramaswamy, A., & Sunal, Z. (2021). Multicultural supervision in counseling: A content analysis of peer-reviewed literature. *Counselor Education and Supervision, 61*(1), 1-13. <https://doi.org/10.1002/ceas.12220>

Mason, E., Dispenza, F., Placeres, V., Grad, R. I., Ray, M., Robertson, A., Dosal-Terminel, D., & Metzler, M. (2022). Student Engagement and Counseling Self-Efficacy: Comparing two course formats. *Counselor Education and Supervision, 61*, 206-216. <https://doi.org/10.1002/ceas.12243>

Psychology and Counseling (Continued)

McGuire, A. P., Fagan, J., Howard, B. A. N., Wurm, A., & Szabo, Y. Z. (2022). Changes in trauma-related cognitions and emotions after eliciting moral elevation: Examining the effects of viewing others' virtuous behavior on veterans with PTSD. *Frontiers in Health Services*. <https://doi.org/10.3389/frhs.2021.831032>

McGuire, A. P., Fagan, J., Tsai, J., Merians, A. N., Nichter, B., Norman, S. B., Southwick, S. M., & Pietrzak, R. H. (2022). Dispositional gratitude predicts the development of psychopathology and suicidal behaviors: Results from a 7-year population-based study of U.S. military veterans. *Depression & Anxiety*, 149, 168-176. <https://doi.org/10.1016/j.jpsyres.2022.02.028>

Molina, C. E., Lemberger-Truelove, M. E., & Zieher, A. (2022). Effects of a School counselor consultation effects on teacher's mindfulness stress, and relationships. *Professional School Counseling*, 26(1), 1-9. <https://doi.org/10.1177/2156759X221086749>

Perez Abreu, R., Estrada, S., & de la Torre Gutierrez, H. (2021). A two-stage polynomial and nonlinear growth approach for modelling the COVID-19 outbreak in Mexico. *Mathematics*, 9(18), 2180. <https://doi.org/10.3390/math9182180>

Persin, M. J., Hardesty, D., Lee, D. C., Tran, N., Bayer, C., Childers, L. G., Moore, J. M., Parsons, T. D., & Barnett, M. D. (2021). A-168 Neural network for the Virtual Environment Grocery Store for detection of neurocognitive impairment among older adults. *Archives of Clinical Neuropsychology*, 36(6), 1223. <https://doi.org/10.1093/arclin/acab062.186>

Pope, A., Sunal, Z., Gantt, A., Zimmerman, B., Corey, A. K., Nuosce, M., & Araujo, L. (2021). A qualitative examination of bi/multilingual counselor training and experiences. *Journal of Counseling and Development*, 100, 27-38. <https://doi.org/10.1002/jcad.12407>

Sunal, Z.-, & Kemer, G.-. (2022). Counselor education doctoral students' research self-efficacy: A systemic perspective. *Teaching and Supervision in Counseling*, 4(1), 1-13. <https://doi.org/10.7290/tsc04d977>

Szabo, Y. Z., Frankfurt, S., Kurz, A. S., Anderson, A. R., & McGuire, A. P. (2021). Resilience predicts posttraumatic cognitions after a trauma reminder task and subsequent positive emotion induction among veterans with PTSD. *Psychological Trauma: Theory, Research, Practice, and Policy*, 14(S1), S108. <https://doi.org/10.1037/tra0001274>

West, E. M., Hickey, W. D., & Barber, L. A. (2021). University-School Partnerships Support Texas PreK-12 Mental Health. *Texas School Business and Insight*.

West, E. M., Moate, R., Baltrinic, E., & Fye, H. (2021). Counselor Educators' Perspectives on Helpful Learning for Clinical Mental Health Counseling Students. *Counselor Education and Supervision*, 60, 235-250. <https://doi.org/10.1002/ceas.12214>

West, E. M., Moate, R., & McKinney, R. (2022). Novice School Counselors' Role Closing the Achievement Gap with Low-Income Adolescents. *Journal of Multicultural Counseling & Development*, 1-11. <https://doi.org/10.1002/jmcd.12237>

West, E. M., Zolkoski, S. M., Lockhart, J., Holm, J. M., & Tremont, J. (2022). "Everybody Knows Everybody": Adolescents' Perceptions of What Helps Them Succeed in a Rural Title I School. *Journal of Adolescent Research*, 37(5), 672-690. <https://doi.org/10.1177/07435584211043880>



POSTER PRESENTATIONS

Dube, J. M., Persin, M. J., Bass, D. P., Prentice, K. P., McKinney, B. A., Morales, Y. L., Moore, J. M., Guillory, L. A., & Barnett, M. D. (2022, April). Factor structure of the Texas functional living scale among older adults. In 7th Annual Lyceum Research Showcase at the University of Texas at Tyler.

Fagan, J., Hayden, C. L., & McGuire, A. P. (2021, June). Examining the association between relationship status, PTSD, depressive, and anxiety symptoms during COVID-19. In International Society for Traumatic Stress Studies 37th Annual meeting.

Fagan, J., Kurz, A. S., Anderson, A. R., Frankfurt, S. B., Szabo, Y. Z., & McGuire, A. P. (2021, June). Mapping the PCL-5 onto state-level experiences for veterans with PTSD in an experimental design. In 55th Annual Convention of Association for Behavioral and Cognitive Therapy.

Freeze, D. A., Smith, L. N., Persin, M. J., Hardesty, D. R., Bayer, C. H., Gerrels, S. E., Guillory, L. A., Moore, J. M., & Barnett, M. D. (2022, February). Inhibitory deficits may explain higher levels of off-topic verbosity among older adults. In International Neuropsychological Society.

Gantt, A., Sunal, Z., & Pope, A. (2021, October). A Qualitative Examination of Bi/Multilingual Counselor Training and Experiences. In Association for Counselor Education and Supervision Conference. Association for Counselor Education and Supervision (ACES).

Gerrels, S. E., Helphrey, J. H., Chek, C., Barr, E. A., Lee, D. C., Freeze, D. A., Guillory, L. A., Coldiron, A. M., & Barnett, M. D. (2022, February). Getting to the point: Off-topic verbosity and sustained attention among young adults and older adult. In International Neuropsychological Society.

Jiang, S., Wallace, K., Yang, E., Roper, L., Lodhi, R. J., Green PhD, B. A., & Aitchison, K. J. (2021, October). Logistic regression with machine learning sheds light on problematic sexual behavior phenotype. In Mind-Body Interface International Symposium.

McGuire, A. P., Howard, B. A. N., Erickson, T. M., & Creech, S. K. (2022, March). Moral elevation online intervention for veterans experiencing distress related to PTSD and moral injury (MOVED): Mixed methods results from a web-based positive psychology intervention pilot. In Anxiety and Depression Association of America Conference. Anxiety and Depression Association of America.

Morales, Y. L., Gerrels, S. E., Wurm, A. I., Nabulsi, E. H., Chek, C., Barr, E. A., Hardesty, D. R., Guillory, L. A., & Barnett, M. D. (2022, Spring). Does neurocognitive impairment among older adults affect rapport in neuropsychological evaluations? In 7th Annual Lyceum Research Showcase at the University of Texas at Tyler.

Morales Mejia, Y. L., Gerrels, S. E., Wurm, A. I., Nabulsi, E. H., Chek, C., Barr, E. A., Hardesty, D. R., Guillory, L. A., & Barnett, M. D. (2022, Summer). Does neurocognitive impairment among older adults affect rapport in neuropsychological evaluations? In American Academy of Clinical Neuropsychology.

Persin, M. J., Chek, C., Hardesty, D. R., Freeze, D. A., Barr, E., Gerrels, S. E., Bayer, C. H., Coldiron, A. M., & Barnett, M. D. (2022, February). Age cohort moderates the relationship between visuospatial intellectual functioning and recall for meal preparation in virtual reality. In International Neuropsychological Society.

PRESENTATIONS

Barnett, M. D. (2022, April). Using virtual reality to improve neuropsychological assessment of older adults. In East Texas Research Conference.

Hayes, A. R., & Allen, K. (2021, November). Managing Anxiety and Stress in the Working Environment. In Consortium for Belize Educational Cooperation.

Hayes, A. R., & Allen, K. (2022, February). Stress and Anxiety in the Workplace: Part 2. In Consortium for Belize Educational Cooperation. COBEC.

School of Education

PRESENTATIONS

Lemberger-Truelove, M., & Molina, C. E. (2022, March). Importance of Theory for School Counseling Practitioners, Educators, and Scholars. In Evidence Based School Counseling Conference.

Li, C., Attia, M., Chan, C. D., Neuer Colburn, A., Ramaswamy, A., & Sunal, Z. (2021, October). Multicultural Supervision in Counseling: A Content Analysis of Peer-Reviewed Literature. In Association for Counselor Education and Supervision Conference. Association for Counselor Education and Supervision (ACES).

McDonald, P., Jenkins, K., Bledsoe, K., Grad, R. I., O'Hara, C., Pester, D., Sharma, J., & Moran, D. (2021, September). The AARC Diversity, Social Justice, and Inclusion Committee: Experiences of Service, Advocacy, and Leadership. In AARC National Conference.

McGuire, A. P. (2021, June). Multicultural considerations for integrating positive psychology and strengths-based approached into mental health. In 55th Annual Convention of Association for Behavioral and Cognitive Therapy.

Molina, C. E., & Allen, K. (2021, October). Enhancing Student Resilience in the Classroom and Beyond. In Virtual EdTalk. The East Texas Center for School Based Research and Instruction.

Molina, C. E., & Lemberger-Truelove, M. (2022, March). Effects of Consultation on Teachers' Stress, Relationships, and Mindfulness. In Evidence Based School Counseling Conference.

Sunal, Z. (2021, October). Counselor Education Doctoral Students' Research Self-Efficacy: A Systemic Perspective. In Association for Counselor Education and Supervision Conference. Association for Counselor Education and Supervision (ACES).

West, E. M., & Moate, R. (2021, Autumn). But I'm not a social worker: Fostering counseling students' competence to work with clients in poverty. In Association for Counselor Education and Supervision National Conference. Association for Counselor Education and Supervision.

GRANTS

Estrada, S. Average or Outlier? Introductory statistics adjunct instructors' beliefs, practices, and experiences, University of Texas at Tyler (September 1, 2021), USD \$6,004.

Bailey, J., & Kaiser, F. J. (2021, November). Learning the playbook, from principal to professor: A collaborative autoethnography. In UCEA Annual Convention. The University Council for Educational Administration. Columbus, OH.

Birkeland, S. (2022, June). Using Quality Measures To Improve Principal Preparation. In G. J. Miller (Ed.), TEA Texas Educator Residency Summit. Texas Education Agency. Online

Cormier, D. R., Mette, I. M., & Oliveras-Ortiz, Y. (2021, November). Critical Conversations Session: Supervision for guerilla pedagogists: Decentering whiteness and increasing representation within supervision. In 2021 University Council for Educational Administration Convention. University Council for Educational Administration. Columbus, OH.

Cormier, D. R., Mette, I. M., & Oliveras-Ortiz, Y. (2022, April). A Call to Action: (Re)imagining the Field of Educational Supervision. In 2022 American Educational Research Association Meeting. American Educational Research Association. San Diego, CA.

Dykes, F., Rueter, J. A., & Piscocco, T. (2022, January). Teaching IQ Testing in an Online Format Utilizing Video Modeling. In Council for Exceptional Children. Teacher Education Division.

Dykes, F., Rueter, J., & Stephens, T. (2022, January). Teaching IQ Testing in an Online Format Utilizing Video Modeling. In Council for Exceptional Children. Teacher Education Division.

Faulconer, J., & Doepker, G. M. (2022, February). Growing Professionally in the Virtual World: Examining Our Bookstacks. In Association of Teacher Educators Annual Convention, Association of Teacher Educators. Chicago, IL.

Fowler, S., Borger, C., Dykes, F., Owiny, R., Maguire, E., & Mason, K. (2022, January). Leading the Future-Collaboration Among Administrators and Special Education Teachers to Improve the State of the Profession. In Council for Exceptional Children.

Kaiser, F. J. (2022, January). Retaining Teachers Through Challenging Times. In TASA 2022 Midwinter Conference. Texas Association of School Administrators.

Lusk, M. E., & Zolkoski, S. M. (2022, January). What Every Student Teacher in General Education Needs to Know About Special Education. In Council for Exceptional Children.

Mette, I. M., Oliveras-Ortiz, Y., & Cormier, D. R. (2021, Autumn). Confronting a lack of critical perspective within supervision. In 2021 Council of Professors of Instructional Supervision Virtual Fall Conference. Council of Professors of Instructional Supervision.

Miller, G. J., Martin, J., Cook, N., & Smith, C. (2021, November). Teacher Advocacy 101: Using Your Teacher Voice for Good. In Kappa Delta Pi 2021 Convocation. Kappa Delta Pi.

Odell, M. R. L. (2022, Spring). Using GLOBE to Prepare Preservice Teachers to Facilitate Scientific Communication. In GLOBE Virtual International Conference. GLOBE.

Odell, M. R. L., & Kennedy, T. J. (2022, March). The Impact of Project-based Learning and Problem-based Learning Models on STEM achievement and Social Emotional Learning. In INTED 2022 Virtual Conference. doi: 10.21125/inted.2022

Odell, M. R. L., & Kennedy, T. J. (2021, Autumn). The UT Tyler and T STEM Coalition GLOBE Partnerships: Preparing Preservice Teachers During the Pandemic. In International GLOBE Conference. GLOBE.

Oliveras-Ortiz, Y., Bouillion, D., & Hutchens, K. (2021, October). Valuing student voice as a disruptive force in design. In 2021 Association for Learning Environments Conference. LearningScapes. Denver, CO. <https://learningscapes2021.a4le.org/ValuingStudentVoices.html>

Oliveras-Ortiz, Y., Bouillion, D., & Hutchens, K. (2021, November 3). Location, Location, Location: Teachers' Pedagogy Evolution after a Change of Space. In Fall 2021 EdSpaces: The Future of Educational Facilities Conference. Education Market Association.

Oliveras-Ortiz, Y. (2022, February). UT Tyler's Center for Caribbean & Central American Initiatives: When Research Matters. In Winter 2022 Consortium for Belize Educational Cooperation Conference Hybrid Conference. Consortium for Belize Educational Cooperation.

Torres, J., David, A. D., Consalvo, A., & Covino, K. (2021, November). When Good Intentions Converge with Fear: Self-Censorship in the ELA Classroom. In National Council of Teachers of English Annual Conference 2021. National Council of Teachers of English.

Vu, J. (2022, June). Leveraging Stakeholder Feedback To Support Continuous Improvement. In G. J. Miller (Ed.), TEA Texas Educator Residency Summit. Texas Education Agency.



School of Education (continued)

PROCEEDINGS PUBLICATIONS

An, H. & Sung, W. (2021). Project-Based Learning in an Online STEM Course: Teaching Physical Science with Technology and the Arts to Inservice Teachers. In E. Langran & D. Rutledge (Eds.), Proceedings of SITE Interactive Conference (pp. 347-351). Online, United States: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/220217/>

An, H., Mongillo, G., Sung, W., & Fuentes, D. (2022). Factors Facilitating and Impeding Online Learning in US High-Needs K-12 Schools During the COVID-19 Pandemic: Experiences of Teachers, Administrators, and Parents. In E. Langran (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference, 2320-2326. San Diego, CA, United States: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/p/221030/>

An, H., & Sung, W. (2022). Playing in a Virtual Orchestra: A Collaborative Online Maker Project Integrating Arts for Inservice Teachers. In E. Langran (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference, 571-579. San Diego, CA, United States: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/220781/>

GRANTS

Dykes, F. Educator Preparation Planning Grant, Texas Higher Education Coordinating Board (July 31, 2022), USD \$50,000.



College of Engineering

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 42nd in the nation amongst institutions that do not offer a doctorate in engineering. The following are just a few of the scholarly accomplishments our faculty achieved over the past year.

Drs. Mena Souliman and Matthew Vechione, from the Texas Rural Transportation Research Center (TRTRC) in the Department of Civil Engineering, presented six papers at the annual Transportation Research Board Meeting in Washington DC held by the US Department of Transportation, with topics ranging from transportation planning and forecasting through effective uses of transportation budgets and resources to appropriately manage pavement and roadway inventories. Dr. Souliman secured funding from the Texas Department of Transportation to study wet weather pavement performance and was part of a consortium that secured \$1,000,000 from the US Department of Transportation to enhance the performance of Smart Pavement Monitoring, Management, and Maintenance systems.

Dr. Shawana Tabassum, from the Department of Computer and Electrical Engineering, has been awarded several six-figure grants and contracts from NSF, USDA, and NASA to advance the use of sensors in monitoring plant health in various environments, including space. Most recently, she was awarded a \$100,000 grant by NASA to develop sensors to monitor plant health in spaceflight-like environments. Dr. Prabha Sundaravadivel was honored by the IEEE Bio-Inspired Computing Special Technical Community with the Outstanding Early Career Researcher Award for her contributions to machine learning-based edge intelligence in the Internet of Things and smart health care.

In the Department of Mechanical Engineering, Dr. Tahsin Khajah developed and patented the "Iterative On Surface Radiation Conditions" (ITOSRC) method capable of performing reliable single- and multiple-scattering analyses at a fraction of the computational cost of the current methods. This method has numerous applications, including medical imaging and intervention, sonar and radar development, non-destructive material testing, noise reduction, and Metamaterial development. Over the last year, the Mechanical Engineering faculty have published several dozen manuscripts, including journal articles and conference proceedings. The department's chair, Dr. Nael Barakat, was selected by the US State Department Office of Cultural and Educational Affairs to serve as a Fulbright Specialist.

Dr. Aaditya Khanal in the Jasper Department of Chemical Engineering was recently awarded over \$220,000 by the NSF to develop methods using data to model and analyze carbon dioxide sequestration in porous materials. Dr. Khanal's recent paper entitled "The current techno-economic, environmental, policy status and perspectives of sustainable aviation fuel (SAF)" is at the top of the list of the "most download articles" worldwide from the journal Fuel. Dr. Carla Lacerda was awarded a grant from the NIH as part of the UC San Diego Future Faculty of Cardiovascular Sciences (FOCUS) program. The program is designed to enhance the academic skills of underrepresented early career academics in cardiovascular sciences.

Javier Kypuros, Ph.D.

Dean, College of Engineering

Chemical Engineering

JOURNAL PUBLICATIONS

Deb, N., Ali, M. S., Mathews, A., Chang, Y. -w., & Lacerda, C. m. r. (2021). Shear type and magnitude affect aortic valve endothelial cell morphology, orientation, and differentiation. *Experimental Biology and Medicine*, 246(21), 2278–2289. <https://doi.org/10.1177%2F15353702211023359>

Deb, N., & Lacerda, C. m. r. (2021). The Individual and Combined Effects of Shear, Tension, and Flexure on Aortic Heart Valve Endothelial Cells in Culture. *Cardiovascular Engineering and Technology*, 13(3), 443-451. <https://doi.org/10.1007/s13239-021-00592-1>

Deb, N., & Lacerda, C. m. r. (2021). Valvular Endothelial Cell Response to the Mechanical Environment—A Review. *Cell Biochemistry and Biophysics*, 79(4), 695-709. <https://doi.org/10.1007/s12013-021-01039-z>

Khanal, A., & Shahriar, M. F. (2022). Physics-based proxy modeling of CO2 sequestration in Deep Saline Aquifers. *Energies*, 15(12), 4350. <https://doi.org/10.3390/en15124350>

Lesanpezeshki, L., Qadota, H., Darabad, M. N., Kashyap, K., Lacerda, C. m. r., Szewczyk, N. J., Benian, G. M., & Vanapalli, S. A. (2021). Investigating the correlation of muscle function tests and sarcomere organization in *C. elegans*. *Skeletal Muscle*, 11(1), 20. <https://doi.org/10.1186/s13395-021-00275-4>

Wang, X., Deb, N., & Lacerda, C. m. r. (2021). Comparison of Serotonin-Regulated Calcific Processes in Aortic and Mitral Valvular Interstitial Cells. *ACS Omega*, 6(30), 19494-19505. <https://doi.org/10.1021/acsomega.1c01723>

Zhao, X., Rahman, M. U., Dissanayaka, T., Gharagheizi, F., Lacerda, C., Senadheera, S., Hedden, R. C., & Christopher, G. F. (2021). Rheological behavior of a low crystallinity polyolefin-modified asphalt binder for flexible pavements. *Case Studies in Construction Materials*, 15, E00640. <https://doi.org/10.1016/j.cscm.2021.e00640>

PRESENTATIONS

Khanal, A., & Jha, H. s. (2021, November). Prediction of Production Performance of Unconventional Reservoirs Using Data-Driven Methods. In AICHE Annual Meeting. Boston, MA.

PROCEEDINGS PUBLICATIONS

Jha, H. S., Khanal, A., & Lee, W. J. (2021). Effect of errors in initial pressure measurement on rate-transient analysis in unconventional reservoirs. Asia Pacific Unconventional Resources Technology Conference, Virtual. Paper Number: URTEC-208321-MS. <https://doi.org/10.15530/AP-URTEC-2021-208321>

Jha, H. S., Khanal, A., & Lee, W. J. (2022, March). Statistical and Machine-Learning Methods Automate Multi-Segment Arps Decline Model Workflow to Forecast Production in Unconventional Reservoirs. SPE Canadian Energy Technology Conference. Clagary, AB, Canada.

GRANTS

Khanal, A. Analytical Modeling of Phase Behavior in Unconventional Reservoirs with Nanopores, University of Texas at Tyler (September 1, 2021), USD \$7,500.

Khanal, A. Numerical Modeling of the Gas Flow in Nanoporous Media, American Chemical Society (September 1, 2021), USD \$55,000.



Civil Engineering

JOURNAL PUBLICATIONS

Bastola, N., Vechione, M. M., Elshaer, M., & Souliman, M. (2022). Artificial Neural Network Prediction Model for In-Situ Resilient Modulus of Subgrade Soils for Pavement Design Applications. *Innovative Infrastructure Solutions: The Official Journal of the Soil-Structure Interaction Group in Egypt (SSIGE)*, 7(1), 1-12. <https://doi.org/10.1007/s41062-021-00659-x>

Souliman, M., & Bastola, N. (2022). Improved engineered scoring system for bicycle lane mapping development. *Material Science & Engineering International Journal*, 6(2), 48-55. <https://doi.org/10.15406/mseij.2022.06.00179>

Stephens, D., Souliman, M., Vechione, M. M., Shirvaikar, M., & Li, Y. (2022). Development of a Smartphone Application Serving Pavement Management Engineers. *Transportation Research Record*, 2676(6), 182-196. <https://doi.org/10.1177/03611981211073310>

Vechione, M. M., & Cheu, R. L. (2021). Comparative Evaluation of Adaptive Fuzzy Inference System and Adaptive Neuro-Fuzzy Inference System for Mandatory Lane Changing Decisions on Freeways. *Journal of Intelligent Transportation Systems*, 26(6), 746-760. <https://doi.org/10.1080/15472450.2021.1967153>

Vechione, M. M., & Cheu, R. L. (2022). Fault Tolerance Analysis of an Adaptive Neuro-Fuzzy Inference System for Mandatory Lane Changing Decisions in Automated Driving. *International Journal of Transportation Science and Technology*. <https://doi.org/10.1016/j.ijtst.2022.05.009>

POSTER PRESENTATIONS

McNamara, N., Park, J., Vechione, M. M., & Sundaravadivel, P. (2022, June). UAV-based Travel Assistive Technology for Smart Transportation. In 15th IEEE Dallas Circuits and Systems Conference (DCAS). <https://www.dcas2022.com/schedule.html#day2>

Stephens, D., Souliman, M., Vechione, M. M., Shirvaikar, M., & Li, Y. (2022, January). Preliminary Development of a Smartphone Application as an Asset to Pavement Management Engineers. In 101st Annual Meeting of the Transportation Research Board. Transportation Research Board.

PRESENTATIONS

Gangone, M. (2022, March). Creating a Hands on Civil Engineering Materials Laboratory Experience at Home. In American Society of Engineering Education (ASEE) Gulf-Southwest Conference. Prairie View, TX.

Souliman, M., & Vechione, M. M. (2022, April). Transportation Engineering Research Developments at UT Tyler. In ASCE Northeast Texas (NET) April Branch Meeting. ASCE Northeast Texas (NET) April Branch Meeting.

Vechione, M. M., Paudel, S., & Gurbuz, O. (2021, September). Trip Distribution Patterns on a University Campus: A Smarter Travel Demand Forecasting Approach. In 7th IEEE International Smart Cities Conference (ISC2). IEEE International Smart Cities Conference (ISC2) (Virtual).

Vechione, M. M., & Gurbuz, O. (2021, November). Turbo Roundabout Implementation Tool. In Joint TextITE / ITS Texas Fall Meeting. TextITE / ITS Texas. Dallas, TX.

Vechione, M. M. (2022, April). How I Chose Transportation Engineering and What to Expect in College. In Women's Transportation Seminar (WTS) Transportation YOU Program. Women's Transportation Seminar (WTS) Transportation YOU Program.

PROCEEDINGS PUBLICATIONS

Acharjee, P., & Souliman, M. (2022, March). Development of Dynamic Modulus Predictive Model Using Artificial Neural Network (ANN). American Society for Engineering Education (ASEE) Gulf Southwest Conference 2022. Prairie View, TX.

Acharjee, P., & Souliman, M. (2022, March). International Roughness Index (IRI) Prediction Model for the State of Louisiana based on Climatic and Traffic Conditions. 7th Annual LSUS Regional Student Scholars Forum.

Acharjee, P., Souliman, M., & Elshaer, M. (2022, March). Development of Subgrade Resilient Modulus Prediction Model Based on Historical Field Database Using Artificial Neural Network Analysis. 1st International Data Science for Pavements Symposium. McLean, VA.

Bastola, N. R., Souliman, M., & Dessouky, S. (2022, February). Incorporating temperature based finite element approach in effectively assessing the structural capacity of flexible pavements. XVI World Winter Service and Road Resilience Congress. Calgary, AB, Canada.

Bastola, N. R., Souliman, M., & Dessouky, S. (2022, January). Prediction Of Remaining Service Life for Flexible Pavement In The Southern Central States Using Fwd Parameters. Annual Meeting of the Transportation Research Board.

Bastola, N., Souliman, M., & Dessouky, S. (2022, August). Structural Health Assessment of Pavement Sections in the Southern Central States Using FWD Parameters. Transportation Consortium of South Central States (Tran-SET) Conference. San Antonio, TX.

Elwardany, M., Hanna, B., & Souliman, M. (2022, March). Truck Platooning's Impact on Pavement Fatigue Life based on Material Characterization with Various Rest Periods and Artificial Neural Networks Modeling. 1st International Data Science for Pavements Symposium. McLean, VA.

Gangone, M. V., & McGinnis, M. J. (2022, March). Creating a Hands on Civil Engineering Materials Laboratory Experience at Home. American Society of Engineering Education (ASEE) Gulf-Southwest Conference.

Hossain, Sk. A., Bagchi, A. (2022, August). Plastic hinge length requirements in reinforced concrete couple shear wall buildings for seismic reinforcement detailing. SHMII-11: 11th International Conference on Structural Health Monitoring of Intelligent Infrastructure.

Isied, M., & Souliman, M. (2022, June). Viscosity Prediction Model for Reacted and Activated Rubber Modified Binders Utilizing Artificial Neural Networks. Rubberized Asphalt Rubber Conference. Malaga, Spain.

Karki, S., Souliman, M., & Saygili, G. (2022, January). Artificial Neural Network Fatigue Endurance Limit Model Using Uniaxial Tension-Compression Fatigue Tests. Annual Meeting of the Transportation Research Board.

Khalifah, R., & Souliman, M. (2022, March). Predicting subgrade resilience modulus and the Soil-Water Characteristic Curve coefficients using Artificial Neural Network model (ANN). 7th Annual LSUS Regional Student Scholars Forum.

McNamara, N., Park, J., Vechione, M. M., & Sundaravadivel, P. (2022, June). UAV-based Travel Assistive Technology for Smart Transportation. 15th IEEE Dallas Circuits and Systems Conference (DCAS).

Proffer, L., & Souliman, M. (2022, June). Mechanistic Analysis and Cost Effectiveness of Asphalt Rubber Pavement Under Various Axle Loading Conditions. Rubberized Asphalt Rubber Conference. Malaga, Spain.

Souliman, M., Saygili, G., & Yarrapureddi, H. K. (2022). Mechanistic Analysis of Treated Subgrade soils at Freezing Temperatures. XVI World Winter Service and Road Resilience Congress. Calgary, AB, Canada.

Souliman, M., Saygili, G., & Yarrapureddi, H. R. (2022, February). Engineering Properties Of Treated Subgrade Soils In Cold Weather Environments. XVI World Winter Service and Road Resilience Congress. Calgary, AB, Canada.

Stephens, D., Vechione, M. M., Shirvaikar, M., & Li, Y. (2022). Preliminary Development of a Smartphone Application as an Asset to Pavement Management Engineers. In M. Souliman (Ed.), 101st Annual Meeting of the Transportation Research Board.

Vechione, M. M., Paudel, S., & Gurbuz, O. (2021, September). Trip Distribution Patterns on a University Campus: A Smarter Travel Demand Forecasting Approach. 7th IEEE International Smart Cities Conference (ISC2).



Souliman, M. Measuring Seal Coat Rate Field Adjustments, Texas Department of Transportation (September 1, 2021), USD \$34,546.

Souliman, M. Quantify Maximum Accumulated Seal Coat Layers for Stability, Texas Department of Transportation (September 1, 2021), USD \$10,194.

Souliman, M. SMARTP3M: Smart pavement Monitoring, Management, and Maintenance, U.S. Department of Transportation through Louisiana State University (April 1, 2022), USD \$34,000.

Electrical Engineering

JOURNAL PUBLICATIONS

García, F., Indic, P., Stapp, J., Chinthu, K. K., He, Z., Brooks, J. H., Carreiro, S., & Derefinko, K. J. (2021). Using wearable technology to detect prescription opioid use self-administration. *PAIN*, 163(2), e357-e367. <https://doi.org/10.1097/j.pain.0000000000002375>

Stephens, D., Souliman, M., Vechione, M. M., Shirvaikar, M., & Li, Y. (2022). Development of a Smartphone Application Serving Pavement Management Engineers. *Transportation Research Record*, 2676(6), 182-196. <https://doi.org/10.1177/03611981211073310>

POSTER PRESENTATIONS

Stephens, D., Souliman, M., Vechione, M. M., Shirvaikar, M., & Li, Y. (2022, January 9-13). Preliminary Development of a Smartphone Application as an Asset to Pavement Management Engineers. In 101st Annual Meeting of the Transportation Research Board. Transportation Research Board.

PRESENTATIONS

Tabassum, S. (2021, September). A Wearable, Rapid, and Real-time Infection Screening Tool with potential to break down the wall of diagnostic disparities in rural populations. In Health Disparities Conference.

Tabassum, S. (2021, September). Crop-FIT: Technology to Support Integrated Wearable Fitness Trackers for Plants. In Texas A&M University Faculty Research Seminar.

Tabassum, S. (2021, November 1-3). Wearables and point-of-care devices in the fight against COVID-19 and other emerging infectious diseases. In OpticsMeet2021: International Meet & Expo on Laser, Optics and Photonics.

Tabassum, S. (2022, February). From wearables to in vivo biosensing: next generation of electrochemical and optical biosensors for real-time monitoring of biomarkers. In University of Texas at San Antonio Faculty Research Seminar.

PROCEEDINGS PUBLICATIONS

Clay, M., Grecos, C., Shirvaikar, M., & Richey, B. (2022, May 27). Benchmarking the MAX78000 artificial intelligence microcontroller for deep learning applications. *SPIE International Conference on Real Time Image Processing and Deep Learning*. <https://doi.org/10.1117/12.2622390>

Ghosh, P., & Sundaravadivel, P. (2022, April 6-7). i-lete: An IoT-based physical stress monitoring framework for athletes. *Proceedings of IEEE International Symposium on Quality Electronic Design (ISQED)*. <https://doi.org/10.1109/ISQED54688.2022.9806268>

Hossain, N. I., Noushin, T., & Tabassum, S. (2021, December). Leaf-FIT: A Wearable Leaf Sensor for In-Situ and Real-Time Monitoring of Plant Phytohormones. *IEEE Sensors*. <https://ieeexplore.ieee.org/abstract/document/9639842>

Hossain, N. I., & Tabassum, S. (2021, December). An Internet-of-Things Enabled Flexible Strain Sensor for Stem Growth Measurements. *IEEE Sensors*. <https://ieeexplore.ieee.org/abstract/document/9639472>

Noushin, T., & Tabassum, S. (2021, November). A Rapid and Point-of-Care Device for Real-Time Monitoring of Pulmonary Hypertension Biomarkers. *AHA-PULMONARY HYPERTENSION AND CRITICAL CARE*. https://www.ahajournals.org/doi/abs/10.1161/circ.144.suppl_1.9062

Noushin, T., & Tabassum, S. (2021, December). Multiplexed Electrochemical Sensor for Real-Time Monitoring of Inflammatory Biomarkers. *IEEE Sensors*. <https://ieeexplore.ieee.org/abstract/document/9639859>

Park, J. (2021). Real-time object detection in 360-degree videos. *Real-Time Image Processing and Deep Learning 2021*, 11736.

Park, J. (2021). Scalable Video Streaming over Multi-RAT Network. *IARIA ICNS 2021*.

Pereira, A. N., Noushin, T., & Tabassum, S. (2021, December). A Wearable, Multiplexed Sensor for Real-time and In-situ Monitoring of Wound Biomarkers. *IEEE Sensors*. <https://ieeexplore.ieee.org/abstract/document/9639722>

Stephens, D., Souliman, M., Vechione, M. M., Shirvaikar, M., & Li, Y. (2022, January). Preliminary Development of a Smartphone Application as an Asset to Pavement Management Engineers. 101st Annual Meeting of the Transportation Research Board.

Tabassum, S. (2021, August). Micro-nanostructured sensors integrated in a wearable platform to fight emerging infectious diseases. *SPIE Optics and Photonics-Low-Dimensional Materials and Devices 2021*. <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/11800/1180000/Micro-nanostructured-sensors-integrated-in-a-wearable-platform-to-fight/10.1117/12.2597527.short?SSO=1>

Tabassum, S., & Aryal, S. (2022). Real-time quantification of CD63 with anti-CD63 functionalized plasmonic fiber optic probe. *Proc. SPIE 11953, Optical Fibers and Sensors for Medical Diagnostics, Treatment and Environmental Applications XXII*.

Uddin, M. M., & Park, J. (2021). 360 Degree Video Caching with LRU & LFU. 2021 IEEE 12th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON).

Uddin, M. M., & Park, J. (2021). Renewable Energy Resources in Bangladesh: Current Status and Future Prospects. 2021 IEEE 48th Photovoltaic Specialists Conference (PVSC).

GRANTS

Indic, P. Vital Signs in Opioid-Exposed Neonates, National Institutes of Health Through the University of Alabama at Birmingham (September 1, 2021), USD \$898,405.

Park, J. Caching and Streaming of 360-degree Videos for VR Applications, University of Texas at Tyler (September 1, 2021), USD \$7,500.

Tabassum, S. A Wearable and Field-deployable Sensor for Crop Leaves, University of Texas at Tyler (September 1, 2021), USD \$7,499.

Tabassum, S. ERI: Crop-FIT: Technology to Support Integrated Wearable Fitness Trackers for Plants, National Science Foundation (January 1, 2022), USD \$200,000.

Tabassum, S. PFI-TT: A Fiber-Optic Sensing System for Multiplexed Gas Detection, National Science Foundation (March 15, 2022), USD \$21,963.

Tabassum, S. Integrated Fitness Tracker for Plan Stem Toward Next Generation Smart Farming, American Association of University Women (July 1, 2022), USD \$35,000.



Mechanical Engineering

JOURNAL PUBLICATIONS

Antoine, X., & Khajah, T. (2021). Standard and Phase Reduced Isogeometric On-Surface Radiation Conditions for acoustic scattering analyses. *Computer Methods in Applied Mechanics and Engineering*, 392 (114700), 1-23. <https://doi.org/10.1016/j.cma.2022.114700>

Barakat, N., & Ibrahim, A. (2021). Design Optimization of a Triboelectric Energy Harvesting Mechanism for Knee Implants. *Engineering Letters*, 29(3), 1131-1137.

Barakat, N., & Alsmairat, O. (2022). Characterizing the Effect of Adding Boron Nitride Nanotubes on the Mechanical Properties of Electrospun Polymer Nanocomposite Microfibers Mesh. *Materials*, 15(5), 1634-1644. <https://doi.org/10.3390/ma15051634>

Bhandari, M., & Fumo, N. (2022). A Review of Ductless Mini Split HVAC System. *Energy Reports*, 8, 5930-5942. <https://doi.org/10.1016/j.egy.2022.03.209>

Fumo, N., Torres, M. J., & Broomfield, K. (2021). A multiple regression approach for calibration of residential building energy models. *Journal of Building Engineering*, 43(102874), 1-10. <https://doi.org/10.1016/j.job.2021.102874>

Hawkins, B. C., Burnett, E., & Chou, S.-F. (2022). Physicomechanical properties and in vitro release behaviors of electrospun ibuprofen-loaded blend PEO/EC fibers. *Materials Today Communications*, Elsevier, (IF: 3.383), 30(103205), 1-10. <https://doi.org/10.1016/j.mtcomm.2022.103205>

Rodriguez, J. L., & Fumo, N. (2021). Zoned heating, ventilation, and air-conditioning residential systems: A systematic review. *Journal of Building Engineering*, 43(102925), 1-9. <https://doi.org/10.1016/j.job.2021.102925>

Salim, M. (2021). Using Artificial Neural Network and Fuzzy Inference System Based Prediction to Improve Failure Mode and Effects Analysis: A Case Study of the Busbars Production. *Processes*, 9(8), 1444-1464. <https://doi.org/10.3390/pr9081444>

Wilberforce, T., Biswas, M. A. R., & Omran, A. (2022). Power and Voltage Modelling of a Proton-Exchange Membrane Fuel Cell Using Artificial Neural Networks. *Energies*, 15(15), 5587. <https://doi.org/10.3390/en15155587>

POSTER PRESENTATIONS

Aygun, G., Nguyen, A., Vasek, D., & Biswas, M. A. R. (2021, November). Design of a User Friendly Remotely Accessible Cross Flow Heat Exchanger. In 2021 Fall ASEE Middle Atlantic Section Conference.

Ibrahim, A. (2021, November). Triboelectric Energy Harvesting for Self-Powering and Load Sensing in Hip and Knee Replacements. In Eighth Arab-American Frontiers of Science, Engineering, and Medicine Symposium. The National Academies of Sciences, Engineering, and Medicine.

Pokhrel, S., Patel, S., Ahmed, I., & Biswas, M. A. R. (2021, November). A Comparative Analysis of Fuel Cell and Internal Combustion Engine in Automobile Application. In 2021 Fall ASEE Middle Atlantic Section Conference.

PRESENTATIONS

Atmeh, M., & Ibrahim, A. (2021). Modeling of Piezoelectric Vibration Energy Harvesting From Low-Frequency Using Frequency Up-Conversion. *Smart Materials, Adaptive Structures and Intelligent Systems*, 85499.

Barakat, N., Al-Shalash, A., Biswas, M. A. R., Chou, S.-F., & Khajah, T. (2021). Engineering Experiential Learning During the COVID-19 Pandemic. *International Conference on Interactive Collaborative Learning (ICL)*, 13.

Barakat, N. (2021, October). Invited Speaker: Engineering Education Examined by The COVID-19 Pandemic. In 6th International Conference of Advances in Mechanical Engineering. Yildiz Technical University.

Barakat, N. (2021, November). Invited Panelist: Engineering Ethics and Sustainability. In World Engineering Education Federation Conference (WEEF-GEDC). WEEF.

Barakat, N. (2022, February). Invited Seminar: Ethical and Societal Impact of Emerging Technology. In Hong Kong University of Science and Technology (HKUST).

Barakat, N. (2022, Summer). Invited Speaker: Seminar - Engineering Ethics. In ASME Power Conference 2022. ASME - Management Division.

Barakat, N. (2022, Summer). Research activities in the College of Engineering. In International Recruiting in 6 international universities. Department of Mechanical Engineering and the Graduate School.



PROCEEDINGS PUBLICATIONS

Atmeh, M., Athey, C., Ramini, A., Barakat, N., & Ibrahim, A. (2021). Performance analysis of triboelectric energy harvester designs for knee implants. *Health Monitoring of Structural and Biological Systems XV*, 11593.

Barakat, N. (2021, September). Transition of Engineering Education During the COVID-19 Pandemic. *WEEF-GEDC 2021*.

Barakat, N., Salim, M., & Al-Shalash, A. (2022, May). Distinct Challenges to Senior Design Projects. *Capstone Design Conference - 2022*.

Barakat, N., Biswas, M. A. R., & Al-Shalash, O. (2022, July). Remote Laboratory-Based Learning in A Thermal Fluid Course. *American Society for Engineering Education (ASEE) Annual Conference and Exposition*.

Barakat, N., & Shekh-Abed, A. (2022, July). Changes of Project Based Learning Effectiveness due to the COVID-19 Pandemic. *ASEE Annual Conference and Exposition*.

Bhandari, M., & Fumo, N. (2022, July). Comparison Study of a Traditional Ducted Heat Pump and a Multi Split Heat Pump. *19th International Refrigeration and Air Conditioning Conference at Purdue*.

Biswas, M. A. R., & Al-Shalash, A. (2021, November). Improve Technical Communication Using Scaffolding Method in Mechanical Engineering Courses. *2021 Fall American Society for Engineering Education (ASEE) Middle Atlantic Section Conference*.

Davis, J., Atmeh, M., Barakat, N., & Ibrahim, A. (2021). Design and performance simulation of a triboelectric energy harvester for total hip replacement implants. *Health Monitoring of Structural and Biological Systems XV*, 11593.

Hassan, M., Baker, K., & Ibrahim, A. (2021). Modeling of Triboelectric Vibration Energy Harvester Under Rotational Magnetic Excitation. *Smart Materials, Adaptive Structures and Intelligent Systems*, 85499.

Mechanical Engineering (continued)

PROCEEDINGS PUBLICATIONS

Khajah, T., & Antoine, X. (2021, Autumn). Phase-reduced isogeometric on surface radiation conditions for high-frequency scattering analyses. Society for Industrial and Applied Mathematics (SIAM) Texas-Louisiana Section Conference - Mathematics and Computation in Biomedicine.

Khajah, T., & Antoine, X. (2022, Summer). High-frequency scattering analysis at low computational cost using phase-reduced isogeometric on-surface radiation conditions for general objects. 8th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS) 2022.

Khajah, T., & Antoine, X. (2022, Summer). High-frequency scattering analyses at dramatically low computational cost using phase-reduced isogeometric on surface radiation conditions. 15th World Congress on Computational Mechanics (WCCM) 2022.

Khajah, T. (2022, July). Numerical methods for acoustic wave propagation analyses. International Conference on Dynamical Systems, Control and Their Applications.

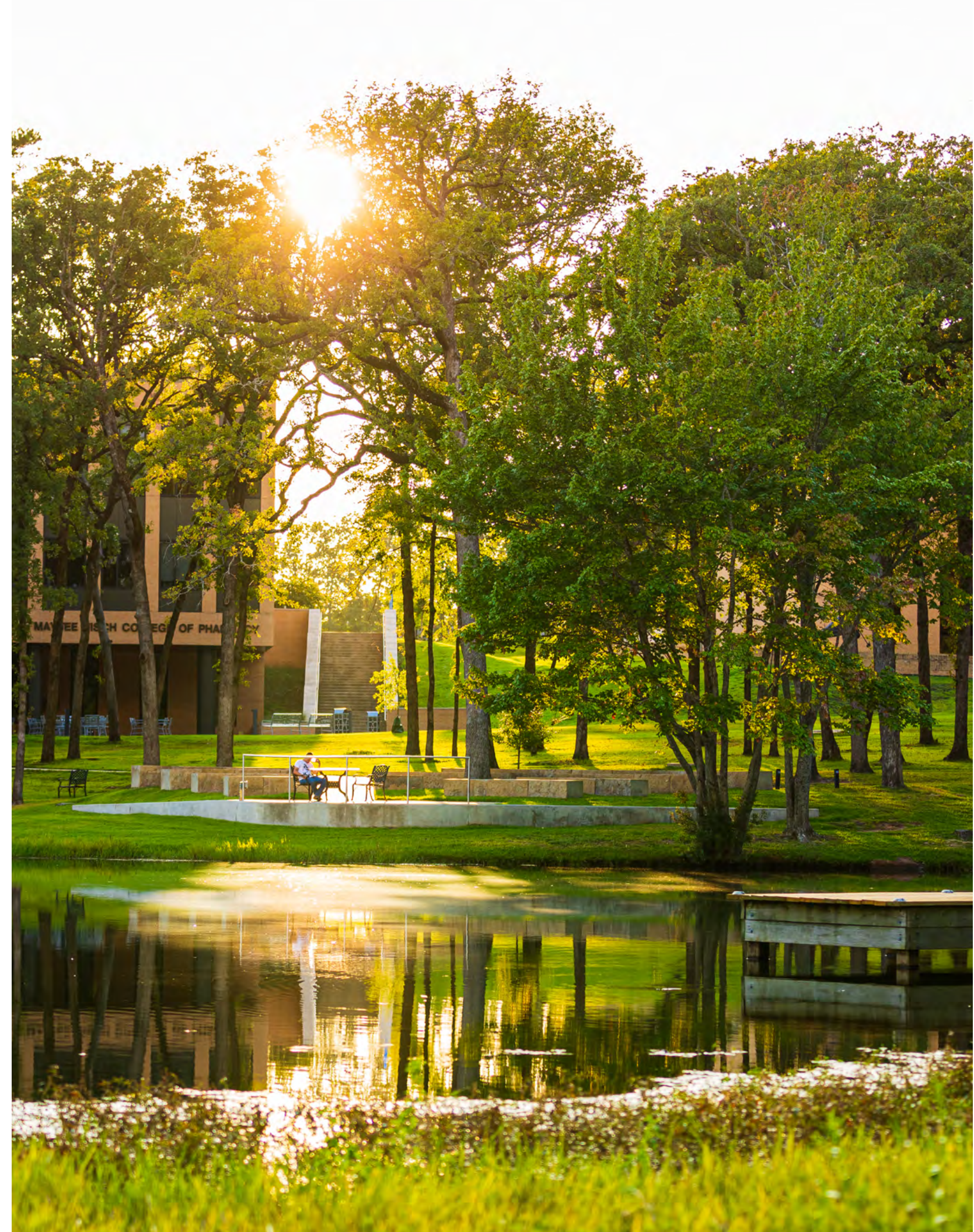
Nikolov, K., Nguyen, X., Ortiz, V., & Biswas, M. A. R. (2021, November). Simulated Crossflow Heat Exchanger System Using Simulink Modeling. 2021 Fall American Society for Engineering Education (ASEE) Middle Atlantic Section Conference.

Oguc, M., Okyar, A. F., Topaloglu, N., & Khajah, T. (2021, Autumn). Estimation of pollution error by utilizing a new generation of open-source finite element software for the scattering of a plane harmonic sound wave. Turkish Acoustical Society (TAKDER) 2021.

Villamizar, V., Khajah, T., Hale, J., & Jaiswal, M. (2022, Spring). An Efficient Iterative High Order Numerical Method for Multiple Scattering. 15th International Conference on Mathematics and Numerical Aspects of Wavy Propagation (Waves) 2022.

GRANTS

Biswas, M. Interactive Experimentation and Learning Experience of an Energy Laboratory System, The Proctor & Gamble Fund of The Greater Cincinnati Foundation (January 6, 2022), USD \$19,984.



Fisch College of Pharmacy

The Ben and Maytee Fisch College of Pharmacy (FCOP), established in 2013, with the Mission to advance the public health and wellness of the citizens of East Texas and beyond through innovation and collaboration in pharmacy, education, scholarship, and advocacy. The College offers the Doctor of Pharmacy (PharmD) degree. The inaugural class was enrolled in 2015 and since inception four classes have graduated. The PharmD curriculum includes active learning, team and interprofessional activities and utilizes purposeful and fundamental scaffolding. Incorporated pedagogy emphasizes communication, critical thinking, and teamwork to solve real-world problems facing patients, practitioners, and the community.

Beginning in the first semester and continuing across all four years of the curriculum, pharmacy students spend nearly 2,000 hours in ambulatory care facilities and hospitals working alongside pharmacists, nurses, physicians and other healthcare practitioners providing patient care and addressing other healthcare issues. Over 700 pharmacist preceptors have trained FCOP students within nearly 600 practice sites across Texas. The students are establishing positive relationships and networks throughout the state. Graduates enter the profession with the necessary knowledge, skills and abilities for a meaningful professional career.

The FCOP includes two Departments, Clinical and Pharmaceutical Sciences, which are chaired by Dr. Rahmat Talukder and includes nine faculty members each (18 total). Scholarship areas being pursued by the faculty include (but are not limited to) drug discovery for areas such as cancer, infectious disease, pain management, and substance abuse, bio and nano technologic advances, transitions of care, strategies to improve medication access, adherence and safety, and advancing student learning. Faculty scholarship initiatives are interdisciplinary both within UT Tyler and beyond, and ever expanding. Students have been actively engaged in scholarship, working with faculty and other healthcare providers, and have shared these experiences at professional meetings. The faculty and students are actively contributing to the scholarship mission of the University.

Amy H. Schwartz, PharmD, BCPS

Dean, Fisch College of Pharmacy

Clinical Sciences

BOOKS

Wooster, J. D., Bethishou, L., & On, P. (Eds.). (2021). *Transitions of Care in Pharmacy Casebook*, 160 pp, US \$49.95 (paperback), US \$37.49 (ebook), Laressa Bethishou, Jessica Wooster, Phung C. On (Eds.), McGraw-Hill Education/Medical, New York, NY (2021), ISBN: 978-1-260-47461-9. Elsevier.

CHAPTERS

Dunn, R. L., Smith, W. J., & Wooster, J. D. (2021). *Macrovascular Complications of Diabetes: Acute Kidney Injury*. In *Transitions of Care in Pharmacy Casebook*, ISBN: 978-1-260-47461-9 (pp. 55–58). Elsevier, McGraw-Hill Education/Medical.

Parmentier, B. L., & Wooster, J. D. (2021). *Complexities of Managing Psychiatric Pharmacotherapy*. In *Transitions of Care in Pharmacy Casebook*, ISBN: 978-1-260-47461-9 (pp. 95–98). Elsevier, McGraw-Hill Education/Medical.

Wooster, J. D. (2021). *Transitions of Care in the Outpatient Setting*. In *Transitions of Care in Pharmacy Casebook*, ISBN: 978-1-260-47461-9 (pp. 15–18). Elsevier, McGraw-Hill Education/Medical.

Wooster, J. D., Bethishou, L., & On, P. (2021). *Applying the Pharmacist Patient Care Process to Care Transitions*. In *Transitions of Care in Pharmacy Casebook*, ISBN: 978-1-260-47461-9 (pp. 3–6). Elsevier, McGraw-Hill Education/Medical.

Wooster, J. D., & Bethishou, L. (2021). *The Importance of Addressing Financial Barriers*. In *Transitions of Care in Pharmacy Casebook*, ISBN: 978-1-260-47461-9 (pp. 21–24). Elsevier, McGraw-Hill Education/Medical.

Wooster, J. D., & Cook, E. (2021). *Heart Failure with Reduced Ejection Fraction*. In *Transitions of Care in Pharmacy Casebook*, ISBN: 978-1-260-47461-9 (pp. 65–68). Elsevier, McGraw-Hill Education/Medical.

CREATIVE PRODUCTIONS

Yett, E. S. (2022, June). Top ten things every clinician should know about sacubitril/valsartan.. In iForumRx - podcast.

Yett, E. S. (2022, June). Top ten things every clinician should know about sacubitril/valsartan. In iForumRx - commentary. <https://iforumrx.org/top-ten-things-sacubitril-valsartan/>

JOURNAL PUBLICATIONS

Burnham, K., Yang, T. "Cindy", Smith, H., & Knight, S. (2021). A review of alternative intravenous acetylcysteine regimens for acetaminophen overdose. *Expert Review of Clinical Pharmacology*, 14(10), 1267–1278. <https://doi.org/10.1080/17512433.2021.1946392>

King, P. K., Burkhardt, C., Rafferty, A., Wooster, J., Walkerly, A., Thurber, K., Took, R., Masterson, J., St., P., Furuno, J. P., & others. (2021). Quality measures of clinical pharmacy services during transitions of care. *Journal of the American College of Clinical Pharmacy*, 4(7), 883–907. <https://doi.org/10.1002/jac5.1479>

Wooster, J., Bethishou, L., Gernant, S. A., On, P. C., Candelario, D. M., Uppala, A., Mansukhani, R., & Shoair, O. A. (2021). *Methods and Barriers to Communication Between Pharmacists During Transitions of Care*. *Journal of Pharmacy Practice*. <https://doi.org/10.1177/08971900211064154>

Yang, T. "Cindy", & Wooster, J. D. (2022). Evaluation of pharmacy students' knowledge and perceptions of transitions of care services. *Pharmacy Education*, 22(1), 10–15. <https://doi.org/10.46542/pe.2022.221.1015>

Yett, E. S. (2022). Development and Evaluation of a Pharmacist-Driven Vitamin D Protocol for a Cystic Fibrosis Clinic. *The Journal of Pediatric Pharmacology and Therapeutics*, 27(4), 306–311. <https://doi.org/10.5863/1551-6776-27.4.306>

OTHER

Parmentier, B. L., & Church, A. F. (2021, September). *Psilocybin for depression: Is it worth the trip?* *Iforumrx.org*. <https://iforumrx.org/psilocybin-for-depression/>

Yang, T. "Cindy" (2021, November). *Low Blood Sugar and Insulin Use*. *Safemedication.com* by ASHP.

Yang, T. "Cindy" (2021). *The Benefits and Risks of Daily Aspirin*. *Safemedication.com* by ASHP.

Clinical Sciences (Continued)

POSTER PRESENTATIONS

Church, A. F., Parmentier, B. L., Peckham, A. M., McGuire, M., Cates, M. E., Harris, S., & Shuman, M. (2021, October). Survey of CNS-related (Psychiatry/neurology/substance use) elective courses offered at US schools of pharmacy. In American College of Clinical Pharmacy Annual Meeting.

Thompson, S., Alkarboly, A., Parmentier, B. L., & Hamouda, A. K. (2021, October). HPLC analysis of CBD products reveals variability in CBD content recovery under simulated gastric and intestinal conditions. In American Association of Pharmaceutical Sciences 2021 PharmSci 360 Meeting.

Wallace-Gay, T. D., Vega, J. A., Yett, E. S., Yang, T. "Cindy", & Foote, D. (2022, July). An Interprofessional Bridge to Pharmacy Education and Practice. In AACP Pharmacy Education meeting. American Association of Colleges of Pharmacy. [Attachment]

PRESENTATIONS

Wooster, J. D., & Blackwell, J. (2021, April). More Than Just CE: How to Get Involved in Professional Pharmacy Organizations. In Texas Society of Health System Pharmacists (TSHP) Annual Meeting. TPA.

Wooster, J. D., & Yett, E. S. (2021, July). Catalyzing Digital Health in Pharmacy Practice. In Texas Pharmacy Association (TPA) Annual Meeting. TPA.

Wooster, J. D., Cook, E., & Clements, J. (2021, December). Up for the Challenge! Clinical Conundrums in Care Transitions. In American Society of Health system Pharmacists (ASHP) Midyear Clinical Meeting. ASHP.

Yett, E. S. (2022, May). Crucial Conversations for New Practitioners. In Texas Society for Health-Systems Pharmacists Annual Meeting.

Yett, E. S. (2022, July). Stuck on Statins? Let's Explore Newer Lipid Lowering Therapies. In Texas Pharmacy Association's Conference and Expo.

GRANTS

Wallace-Gay, T. (PI), and Newsome, J. (Co-PI). COVID-19 Vaccine Outreach and Education, Centers for Disease Control through Texas A&M University (November 23, 2021), USD \$40,629.

Pharmaceutical Sciences

CHAPTERS

Veronin, M. A., Schumaker, R. P., Dixit, R. R., & Elath, H. (2022). Opioids and Frequency Counts in the U.S. Food and Drug Administration Adverse Event Reporting System (FAERS) Database. In *Current Aspects in Pharmaceutical Research and Development Vol. 8* (Chapter 4 Page 35–43). BP International. <https://doi.org/10.9734/bpi/caprd/v8/1816A>.

JOURNAL PUBLICATIONS

Aryal, S. & Marasini, R. (2022). Indocyanine-type Infrared-820 Encapsulated Polymeric Nanoparticle-Assisted Photothermal Therapy of Cancer. *ACS Omega*, 7(14), 12056–12065. <https://doi.org/10.1021/acsomega.2c00306>

Deba, F., Munoz, K., Peredia, E., Akk G., Hamouda, A. K. (2022). Assessing Potentiation of the $\alpha 4\beta 2$ Nicotinic Acetylcholine Receptor by the Allosteric Agonist CMPI. *Journal of Biological Chemistry*, 298(1), 101455. <https://doi.org/10.1016/j.jbc.2021.101455>

Glavy, J. S., Blethrow, J. D., & DiGuilio, A. L. (2022). Purification of Cdk-CyclinB-Kinase-Targeted Phosphopeptides from Nuclear Envelope. *Methods in Molecular Biology*, 2502, 271–282. https://doi.org/10.1007/978-1-0716-2337-4_18

Glavy, J. S., Lizarraga, A., Nolen, R. M., Hart, L., & Williams, L. R. (2022). Snake Fungal Disease Caused by the Fungal Pathogen *Ophidiomyces ophidiicola* in Texas. *bioRxiv*. <https://doi.org/10.1101/2022.04.14.488407>

Hamouda, A. K. (2022). Pyrrolidiny Benzofurans and Benzodioxanes: Selective $\alpha 4\beta 2$ Nicotinic Acetylcholine Receptor Ligands with Different Activity Profiles at the Two Receptor Stoichiometries. *Bioorganic Medicinal Chemistry Letters*, 65(128701), Article 128701. <https://doi.org/10.1016/j.bmcl.2022.128701>

Lee, Y. R., Vo, K., & Varughese, J. T. (2022). Benefits of combination therapy of hydrocortisone, ascorbic acid and thiamine in sepsis and septic shock: A systematic review. *Nutrition and Health*, 28(1), 77–93. <https://doi.org/10.1177/02601060211018371>

Marasini, R., Rayamajhi, S., Moreno-Sanchez, A., & Aryal, S. (2021). Iron(III) chelated paramagnetic polymeric nanoparticle formulation as a next-generation T1-weighted MRI contrast agent. *RSC Advances*, 11, 32218032226. <https://doi.org/10.1039/D1RA05544E>

Nguyen, T. D., Marasini, R., & Aryal, S. (2022). Re-engineered imaging agent using biomimetic approaches. *WIREs Nanomedicine and Nanobiotechnology*, 14(1), 1762. <https://doi.org/10.1002/wnan.1762>

Rayamajhi, S., Wilson, S., Aryal, S., & DeLong, R. (2021). Biocompatible FePO₄ Nanoparticles: Drug Delivery, RNA Stabilization, and Functional Activity. *Nanoscale Research Letter*, 16. <https://doi.org/10.1186/s11671-021-03626-8>

Schumaker, R. P., Veronin, M. A., Rohm, T., Boyett, M., & Doxit, R. R. (2021). A Data Driven Approach to Profile Potential SARS-CoV-2 Drug Interactions Using TylerADE. *Journal of International Technology and Information Management (JITIM)*, 30(3), 108–142. <https://doi.org/10.58729/1941-6679.1504>

Schumaker, R. P., Veronin, M. A., Rohm, T., Dixit, R., & Aljarwarneh, S. (2021). An Analysis of Covid-19 Vaccine Allergic Reactions. *Journal of International Technology and Information Management (JITIM)*, 30(4), 24–40. <https://doi.org/10.58729/1941-6679.1521>

Veronin, M. A. (2022). An Atypical Case of Extreme Polypharmacy. *Drug, Healthcare and Patient Safety*, 14, 19–26. <https://doi.org/10.2147/DHPS.S332954>

Wang, Y., Govindaiah, G., & Liu, R.-J. (2022). Dopamine D2L receptor deficiency alters neuronal excitability and spine formation in mouse striatum. *Biomedicines*, 10, 101. <https://doi.org/10.3390/biomedicines10010101>

POSTER PRESENTATIONS

Glavy, J. S. (2022, Summer). The Independence and Localization of Maintenance Genome Stability Protein 1. In *Life at the edge: The nuclear envelope and nucleocytoplasmic transport*. DGZ- German Society for Cell Biology.

Hamouda, A. K., Romero, A., Hunt, J., & Bill, B. R. (2022, April). Optimizing 6-Hydroxydopamine Concentrations for induction of a Parkinson's Disease Like Behavior in Zebrafish. In *Experimental Biology Meeting*. American Society for Pharmacology and Experimental Therapeutics.

Thompson, S., Alkarboly, A., Parmentier, B. L., & Hamouda, A. K. (2021, October). HPLC analysis of CBD products reveals variability in CBD content recovery under simulated gastric and intestinal conditions. In American Association of Pharmaceutical Sciences 2021 PharmSci 360 Meeting.



PRESENTATIONS

Glavy, J. S. (2022, May). "Distinguishing the Nuclear Envelope of Red Alga, *Cyanidioschyzon merolae*." In *Joint Aquatic Sciences Meeting (JASM)*. Joint Aquatic Sciences Meeting (JASM).

Hamouda, A. K. (2021). ACE2 Overexpression Modulates Nicotine Receptors in Cell Type Specific Manner: Possible Relevance In Covid-19. In *ERS Virtual International Congress 2021*. European Respiratory Society (ERS).

PROCEEDINGS PUBLICATIONS

Schumaker, R. P., Veronin, M., Rohm, T., Dixit, R., Aljarwarneh, S., & Lara, J. (2021, October). An Analysis of COVID-19 Allergic Reactions. *International Information Management Association (IIMA-2021)*. <https://doi.org/10.58729/1941-6679.1521>

Tabassum, S., & Aryal, S. (2022). Real-time quantification of CD63 with anti-CD63 functionalized plasmonic fiber optic probe. *Proc. SPIE 11953, Optical Fibers and Sensors for Medical Diagnostics, Treatment and Environmental Applications XXII*. <https://doi.org/10.1117/12.2604375>

GRANTS

Aryal, S. Re-engineering Tumor Cell-Derived Extracellular Vesicles with Exogenous Tags for Downstream Analysis, National Institutes of Health (September 10, 2021), USD \$405, 400.

Deba, F. Control of NP by Modulating TRP Channel using Caffeic Acis Analogues, University of Texas at Tyler (September 1, 2021), USD \$7,500.

Hamouda, A. (PI), and Bill, B. (Co-PI). In vitro pharmacology and In vivo neuroprotective effects of CMPI analogues in an optimized Zebrafish model of Parkinson's disease, National Institutes of Health (May 20, 2022), USD \$588,000.

School of Health Professions

The School of Health Professions is a new academic unit at UT Tyler with programs that span the Health Science Center and main campus. The SHP is committed to (1) advancing the quality of population health outcomes in East Texas, (2) promoting wellness through research, education, and clinical programs, and (3) training the next generation of health professionals. The School includes 25 full-time faculty members in four academic departments: Kinesiology, Public Health, Healthcare Policy, Economics, and Management, and Rehabilitation Sciences. Dr. Theresa Byrd has been named as the inaugural Dean of the School of Health Professions.

Health Professions faculty are actively involved in a wide variety of research and scholarship 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— Department of Kinesiology faculty are involved in interdisciplinary research groups to study balance and risk of falls in older adults. One group, led by Dr. Woohyoung Jeon is assessing how age-related changes in leg strength and biomechanics can impact balance and risk of falls. A second group, including Dr. Neil Dong and Mr. Andrew Cage is seeking 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 Public Health faculty are collaborating with researchers at UT Houston to evaluate early childhood health screening in Northeast Texas. Other faculty are involved in a Texas Department of State Health Services-funded project to establish community-based consortiums for increasing vaccine uptake in East Texas.

Department of Healthcare Policy, Economics, and Management faculty are collaborating with the School of Medicine to study COVID-19 vaccine hesitancy in community members and healthcare professionals. Department of HPEM faculty have also published articles on the ethical allocation of COVID-19 vaccines in the U.S. and the effect of COVID-19 on academic integrity.

In the Department of Rehabilitation Sciences, Dr. Tina Melamed is studying language use and development in children, using behavioral and physiological measurements to investigate how experiences, environment, and socio-economic status interact to support language development.

These are just a few of the research projects that 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.

David Criswell, Ph.D.

Interim Dean, School of Health Professions

Community Health

JOURNAL PUBLICATIONS

Poulos, N. S., Garcia, M. H., Bouchacourt, L., Mackert, M., & Mandell, D. J. (2021). Fatherhood during COVID-19: fathers' perspectives on pregnancy and prenatal care. *Journal of Men's Health*. <https://doi.org/10.31083/jomh.2021.119>

Van, H., O'Neil, M., Keefe, R. J., & Mandell, D. (2021). It's Not Just Opioids: Polysubstance Overdose Deaths in Harris County, Texas 2013-2018. *Texas Public Health Journal*, 73(4), Article 4. <https://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=152960108&site=eds-live&scope=site>

Healthcare Policy, Economics and Management

JOURNAL PUBLICATIONS

Lawrence, C., Vick, D., Maryon DHA, T., & Kerr, B. (2022). Ethical allocation of COVID 19 vaccine in the United States: an evaluation of competing frameworks for the current pandemic and future events. *Journal of Public Health Policy*. <https://doi.org/10.1057/s41271-022-00338-w>.

Lieneck C, Weaver E., Maryon T. (2022). Pandemic Pause: Cost Variables for Ambulatory ACOs amid COVID-19. *MGMA Connection Magazine*, January 44-53.

Nevola, A., Morris, M. E., Colla, C., & Tilford, J. M. (2021). Risk-based contracting for high-need Medicaid beneficiaries: The Arkansas PASSE program. *Health Policy OPEN*, 2, 100023. <https://doi.org/10.1016/j.hpopen.2020.100023>

PRESENTATIONS

Elliott, K., & Escareno, J. (2022). Pandemic Pivot: Revisiting Academic Integrity Strategies to Ensure Student Success. In Association of University Programs in Health Administration (AUPHA) Annual Meeting. Association of University Programs in Health Administration.

PRESENTATIONS

Johnson, J., Kennedy, M. H., & Morris, M. E. (2022, Summer). CommUNITY Cares Program: Lessons in Adaptive Response. In Association of University Programs in Health Administration Annual Conference.

Kim, B., Minor, S., Cooper, S., Elliott, K., Morris, M., & Hargrove, L. (2022, June). Reflections on Four Delivery Models for CHW Training in Texas: Matching the Model to Community and Organizational Context. In Texas Public Health Association Annual Meeting. Texas Public Health Association.

Maryon, T. (2021, November). Leading in Healthcare: Navigating Complexity and Leading with Confidence. In University of Texas at Tyler, Career Success Conference. University of Texas at Tyler.

Ward, W., Neill, K., Rezaeiahari, M., DeClerk, L., Tooch, D., Morris, M., Schmit, T. (27 September 2021). An Interprofessional, Team-Based Quality Improvement Program. Nexus Summit 2021.



Kinesiology

CHAPTERS

Njororai Simiyu, W. W. (2022). FIFA and Football Development in Africa. In *The Beautiful Game: The Origins, Contradictions and Contradictions of Football in Africa* (pp. 25–54). Routledge.

Njororai Simiyu, W. W. (2022). The origins, status, contributions, and contradictions of association football in Uganda. In *The Beautiful Game: The Origins, Contributions and Contradictions of Football in Africa* (pp. 253–273). Routledge.

JOURNAL PUBLICATIONS

Antonini, M., Siva Pontes, P., Santos Melo, E., de Souza Alves, R., Gir, E., & Sorensen, W. (2021). Serodiscordance predictors among couples in the HIV context: Implications for health care. *BMC Public Health*, 21(1849), Article 1849. <https://doi.org/10.1186/s12889-021-11835-0>

Arenas Chavez, C. A., Hollanda, L. M., Arce-Esquivel, A. A., Alvarez-Risco, A., Del-Aguila-Arcenales, S., Yanez, J. A., & Vera, C. (2022). Antibacterial and antifungal activity of functionalized cotton fabric with nanocomposite based on silver nanoparticles and carboxymethyl chitosan. *Processes*, 10(6), 1088. <https://doi.org/10.3390/pr10061088>

Cage, S. A., Warner, B. J., Gallegos, D. M., Stevenson, P., & Arce-Esquivel, A. A. (2022). Effect of Flossing Bands on Pain and Perceived Level of Function in Collegiate Baseball Pitchers. *International Journal of Medical Science and Health Research*, 5(6), 115–118. <https://doi.org/10.36348/jaspe.2022.v05i06.001>

Jeon, W., Griffin, L., & Hsiao, H. Y. (2021). Effects of initial foot position on postural responses to lateral standing surface perturbations in younger and older adults. *Gait & posture*, 90, 449–456. <https://doi.org/10.1016/j.gaitpost.2021.09.193>

Jeon, W., Wang, S., Bhatt, T., & Westlake, K. P. (2022). Perturbation-Induced Protective Arm Responses: Effect of Age, Perturbation-Intensity, and Relationship with Stepping Stability: A Pilot Study. *Brain Sciences*, 12(7), 953. <https://doi.org/10.3390/brainsci12070953>

Jeon, W., Whitall, J., Alyssa, N., & Westlake, K. P. (2022). Age-related differences in stepping stability following a sudden gait perturbation are associated with lower limb eccentric control of the perturbed limb adults. *Experimental Gerontology*, 167(111917), Article 111917. <https://doi.org/10.1016/j.exger.2022.111917>

Njororai, F. J., Ganu, D., Nyaranga, K. C., & Wilberforce, C. (2021). Role of socio-demographic and environmental determinants in performance of community health workers in Western Kenya. *International Journal of Environmental Research and Public Health*, 18(11707), Online 1–11. <https://doi.org/10.3390/ijerph182111707>

Njororai Simiyu, W. W. (2021). How Tokyo 2020 tested Kenya's running dominance and revealed future threats. *The Conversation*, August 29. <https://theconversation.com/how-tokyo-2020-tested-kenyas-running-dominance-and-revealed-future-threats-166126>

Njororai Simiyu, W. W. (2021). Pride and burden of striving for perfection at the Olympics. University of Texas, Austin: Center for Sports Communication and Media. <https://olympicanalysis.org/section-1/pride-and-burden-of-striving-for-perfection-at-the-olympics/>

Njororai Simiyu, W. W. (2022). Afcon group stage: a stride forward for the African game despite low scoring. *The Conversation*, January 24. <https://theconversation.com/afcon-group-stage-a-stride-forward-for-the-african-game-despite-low-scoring-175504>

Njororai Simiyu, W. W. (2022). Africa: Athletics - Kenyans Are Running for Other Countries, but That's Not Why Medals Are Fewer. *The Conversation*, August 5. <https://theconversation.com/athletics-kenyans-are-running-for-other-countries-but-thats-not-why-medals-are-fewer-187707>

Njororai Simiyu, W. W. (2022). Kenya and Zimbabwe have been suspended from world football: what happens next. *The Conversation*, March 1. <https://theconversation.com/kenya-and-zimbabwe-have-been-suspended-from-world-football-what-happens-next-178040>

Njororai Simiyu, W. W. (2022). Superstars Sadio Mané and Mo Salah eclipse African football at home. *The Conversation*, July 19. <https://theconversation.com/superstars-sadio-mane-and-mo-salah-eclipse-african-football-at-home-187183>

Reis, R., Sousa, L. M., Melo, E., Martinez Fernandes, N., & Sorensen, W. (2021). Predictors of HIV Status Disclosure to Sexual Partners Among People Living with HIV in Brazil. *AIDS and Behavior*. <https://doi.org/10.1007/s10461-021-03362-1>

Xiao, P., Haque, E., Zhang, T., Dong, X. N., Huang, Y., & Wang, X. (2021). Can DXA image-based deep learning model predict the anisotropic elastic behavior of trabecular bone? *Journal of the Mechanical Behavior of Biomedical Materials*, 124, 104834. <https://doi.org/10.1016/j.jmbbm.2021.104834>

Xiao, P., Zhang, T., Haque, E., Wahlen, T., Dong, X. N., Huang, Y., & Wang, X. (2021). Prediction of elastic behavior of human trabecular bone using a DXA image-based deep learning model. *JOM*, 1–11. <https://doi.org/10.1007/s11837-021-04704-z>

OTHER

Antonini, M., Silva Pontes, P., Santos Melo, E., de Souza Alves, R., Gir, E., & Sorensen, W. (2022). Sorodiscordância entre casais no contexto do HIV: Implicações para os cuidados de saúde. *Brazilian Journal of Infectious Diseases*, Vol 26 (Suppl 1) [published Abstract]: <https://doi.org/10.1016/j.bjid.2021.102156>.

POSTER PRESENTATIONS

Bradley, D. M. (2022, April). Developing Simulations for Clinical Competencies. In *AOTA Inspire 2022*. American Occupational Therapy Association.

Bradley, D. M. (2022, April). Implementing an Intra-professional Education Model into OT Curricula. In *AOTA Inspire 2022*. American Occupational Therapy Association.

Faghihifar, J. A. (Ed.). (2021, November). Communication Devices. In *Texas Occupational Therapy Association*. Texas Occupational Therapy Association Annual Conference.

Faghihifar, J. A. (2021, November). Exploring the Utility of Intentional Relationship Model Principles to Build Relationships within Classroom Communities. In A. Cage (Ed.), *Texas Occupational therapy Association*. Texas Occupational Therapy Associate Annual Conference.

Faghihifar, J. A., Hebert, J., & Jefferies, G. (2021, November). Promoting Intra-Professional Collaboration in MOT and COTA Education. At *Texas Occupational Therapy Association Conference*. Texas Occupational Therapy Association Conference.

Hudson, J., & Njororai Simiyu, W. W. (2021, December 3). Accessibility of Walking and Biking as Forms of Exercise in Harris County, Texas, USA. In *98th TAHPERD Annual Convention*. TAHPERD.

Maiya, M. (2022, June). Developing, Verifying, and Evaluating a Menu Using Foods with Naturally Occurring Resistant Starch. In *NUTRITION 2022*. American Society for Nutrition.

Maiya, M. (2022, June). Effect of a High Resistant Starch Menu on Glycemic Response in Adults with Obesity and Prediabetes: A Non-randomized Pilot Study. In *NUTRITION 2022*. American Society for Nutrition.

PRESENTATIONS

Arce-Esquivel, A. A. (2021, December). Inflammation and Cardiovascular Risk among People Exposed to Chronic Intermittent Hypobaric Hypoxia. In *International Symposium: Life at the Top - High Altitude in Health and Exercise*. School of Medicine - National University of San Agustin of Arequipa - Peru.

Bradley, D. M. (2021, November). Competency-Based Education Activities for Occupational Therapy Students. In *Texas Occupational Therapy Annual Conference*. Texas Occupational Therapy Association.

Cox, G., Zhang, T., & Njororai Simiyu, W. W. (2021, September 15). How to Build Your Resume: TAHPERD Webinar Series 2021. In *Webinar Workshop*. Texas Association of Health, Physical Education, Recreation and Dance.

Hermanns, M., & Hebert, J. M. (2022, February). Aware in Care. In *Tyler Kung Fu & Fitness - Rock Steady Boxing for Persons with Parkinson's disease*.

Lowe, T., Alighanbari, M., Griffin, L., & Dong, X. N. (2022, February). Acute prolonged vibration of the hamstrings reduces tibiofemoral compressive forces following anterior cruciate ligament reconstruction. In *Annual Meeting of Orthopedic Research Society*. Orthopedic Research Society.

Njororai Simiyu, W. W. (2021, September). Neo-imperialism in action? The experience of African football players in Europe. In *The Football and Society Podcast*. The Football and Society Podcast.

Njororai Simiyu, W. W. (2021, October). Running University Sport in the New Normal – Current Direction of Federation of East African University Sports. In *The 1st FEAUS Forum: Developing University Sports in the new Covid-19 Normal*. Federation of East African University Sports (FEAUS).

Njororai Simiyu, W. W. (2021, October). Tokyo 2020 Olympics: Global inequality and emerging threat to Kenya's distance running. In *Black Lives: Global and Local Structures of Inequality and Justice SERSAS/SEAN Virtual Conference*. SERSAS/SEAN.

Njororai Simiyu, W. W. (2022, March 31). Leveraging academic knowledge, experience, and skills for career success: post covid-19 era. In *Webinar presentation to the Department of Physical Education and Sport, College of Education and External Studies, University of Nairobi*. University of Nairobi.

School of Medicine

At the School of Medicine, our purpose is to improve the quality of life and health throughout East Texas. We want to address health care issues in the community, including the physician shortage and lack of health care access.

We have four key departments and centers that are essential to achieving these goals: the Department of Occupational and Environmental Medicine, the Center for Biomedical Research, the Department of Preventive Medicine and Population Health, and the Center for Clinical Research.

The Department of Occupational and Environmental Medicine collaborates with the CDC National Institute for Occupational Safety and Health to create safer workplaces. The faculty research how COVID-19 impacted industrial sectors to prepare US companies for future pandemics. The Southwest Ag Center is a key component of this department. The main goal of the Southwest Ag Center, led by Dr. Casanova, is to improve the health of agricultural, forestry and fishing (AFF) workers by providing outreach to the five southwest states.

At the Center for Biomedical Research, nationally recognized scientists identify novel therapies to improve human health. Their research focuses on cardiovascular disease; acute, chronic and infectious lung diseases; thoracic malignancies and immunologic problems. Students of the Master of Science in Biotechnology program have presented their research alongside their faculty mentors at international conferences and society meetings. In the last year, many of the faculty's publications included student contributions.

The Department of Preventive Medicine and Population Health functions as the community engagement arm of our four-fold mission. The faculty teach Master of Public Health and Master of Health Administration courses, instruct physicians in the General Preventive Medicine Residency and train community health workers. This department offers a variety 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. Our research focus is wide-ranging and includes infectious disease education and mitigation through testing and vaccination as well as breast and cervical cancer screening outreach grants.

The Center for Clinical Research conducts clinical trials in East Texas, delivering evidence-based, cost-effective medical care throughout the region. Its studies focus on pulmonary medicine, cardiology, neurology and oncology. Its renowned Investigators and Staff are first enrollers on several industry- and grant-funded research projects for patients diagnosed with Bronchiectasis, Non-Mycobacterium Tuberculosis and Cystic Fibrosis. The Center recently launched a new website, which can be accessed at clinicalresearch.uttyler.edu.

The School of Medicine has done some big things in East Texas—and there's more to come. We recently matched with 40 students, who will form our inaugural class this July. With the advent of our first class and the discoveries from both our past and current research, I'm excited to see how the School of Medicine will continue to impact the community.

Brigham C. Willis, MD, MEd, FAAP

Founding Dean, School of Medicine

Department of Cellular and Molecular Biology

JOURNAL PUBLICATIONS

Akkerman, O. W., Duarte, R., Tiberi, S., Schaaf, H. S., Lange, C., Alffenaar, J. W. C., Denholm, J., Carvalho, A. C. C., Bolhuis, M. S., Borisov, S., Bruchfeld, J., Cabibbe, A. M., Caminero, J. A., Carvalho, I., Chakaya, J., Centis, R., Dalcomo, M. P., L. D. A., Dediccoat, M., Dheda, K., Dooley, K.E., Furin, J., García-García, J-M, van Hest, N.A.H., de Jong, B.C., Kurhasani, X., Märtson, A.G., Mpagama, S., Munoz Torrico, M., Nunes, E., Ong C.W.M., Palmero, D.J., Ruslami R., Saktiawati, A.M.I., Semuto, C., Silva, D.R., Singla, R., Solovic, I., Srivastava, S., de Steenwinkel, J.E.M., Story, A., Sturkenboom, M.G.G., Tadolini, M., Udwardia, Z.F., Verhage, A.R., Zellweger, J.P., Migliori, G. B. (2022). Clinical standards for drug-susceptible pulmonary TB. The international journal of tuberculosis and lung disease, 26(7), 592-604. <https://doi.org/10.5588/ijtld.22.0228>

Alffenaar, J. W. C., Stocker, S. L., Forsman, L. D., Garcia-Prats, A., Heysell, S. K., Aarnoutse, R. E., Akkerman, O. W., Aleksa, A., van Altena, R., de Onata, W. A., Bhavani, P. K., Van't Boveneind-Vrubleuskaya, N., Carvalho, A. C. C., Centis, R., Chakaya, J. M., Cirillo, D. M., Cho, J. G., L. D. A., Dalcolmo, M. P., Denti, P., Dheda, K., Fox, G.J., Hesselning, A.C., Kim, H.Y., Köser, C.U., Marais, B.J., Margineanu, I., Märtson, A.G., Munoz Torrico, M., Nataprawira, H.M., Ong, C.W.M., Otto-Knapp, R., Peloquin C.A., Silva, D.R., Ruslami, R., Santoso, P. Savic, R.M., Singla, R., Svensson, E.M., Skrahina, A., van Soolingen, D., Srivastava, S., Tadolini, M., Tiberi, S., Thomas, T.A., Udwardia, Z.F., Vu, D.H., Zhang, W., Mpagama, S.G., Schön, T., Migliori, G. B. (2022). Clinical standards for the dosing and management of TB drugs. The international journal of tuberculosis and lung disease, 26(6), 483-499. <https://doi.org/10.5588/ijtld.22.0188>

Choo, Y. Y., Sakai, T., Komatsu, S., Ikebe, R., Jeffers, A., Singh, K. P., Idell, S., Tucker, T. A., & Ikebe, M. (2022). Calponin 1 contributes to myofibroblast differentiation of human pleural mesothelial cells. American journal of physiology. Lung cellular and molecular physiology, 322(3), L348-L364. <https://doi.org/10.1152/ajplung.00289.2021>

Davidson, R. M., Nick, S. E., Kammlade, S. M., Vasireddy, S., Weakly, N., Hasan, N. A., Epperson, L. E., Strong, M., Nick, J. A., Brown-Elliott, B. A., Stout, J. E., Lewis, S. S., Wallace, R. J., Jr, & Baker, A. W. (2022). Genomic Analysis of a Hospital-Associated Outbreak of Mycobacterium abscessus: Implications on Transmission. Journal of clinical microbiology, 60(1), e0154721. <https://doi.org/10.1128/JCM.01547-21>

Dean, K., Jung, B., Dornelas-Moreira, J., & Samten, B. (2022). Identification of N-formylated Peptides with Neutrophilic Chemotactic Activity in Mycobacterium tuberculosis. Zoonoses, 2(1). DOI: 10.15212/ZOONOSES-2022-0013

Dornelas-Moreira, J., Iakhiaev, A., Vankayalapati, R., Jung, B. G., & Samten, B. (2022). Histone deacetylase-2 controls IL-1 β production through the regulation of NLRP3 expression and activation in tuberculosis infection. iScience, 25(8), 104799. <https://doi.org/10.1016/j.isci.2022.104799>

Guo, X., Adeyanju, O., Sunil, C., Mandlem, V., Olajuyin, A., Huang, S., Chen, S. Y., Idell, S., Tucker, T. A., & Qian, G. (2022). DOCK2 contributes to pulmonary fibrosis by promoting lung fibroblast to myofibroblast transition. American journal of physiology. Cell physiology, 323(1), C133-C144. <https://doi.org/10.1152/ajpcell.00067.2022>

Guo, X., Sunil, C., Adeyanju, O., Parker, A., Huang, S., Ikebe, M., Tucker, T. A., Idell, S., & Qian, G. (2022). PD-L1 mediates lung fibroblast to myofibroblast transition through Smad3 and β -catenin signaling pathways. Scientific reports, 12(1), 3053. <https://doi.org/10.1038/s41598-022-07044-3>

Griffith, D. E., Thomson, R., Flume, P. A., Aksamit, T. R., Field, S. K., Addrizzo-Harris, D. J., Morimoto, K., Hoefsloot, W., Mange, K. C., Yuen, D. W., Ciesielska, M., Wallace, R. J., Jr, van Ingen, J., Brown-Elliott, B. A., Coulter, C., Winthrop, K. L., & CONVERT Study Group (2021). Amikacin Liposome Inhalation Suspension for Refractory Mycobacterium avium Complex Lung Disease: Sustainability and Durability of Culture Conversion and Safety of Long-term Exposure. Chest, 160(3), 831-842. <https://doi.org/10.1016/j.chest.2021.03.070>

Hao, Q., Shetty, S., Tucker, T. A., Idell, S., & Tang, H. (2022). Interferon- γ Preferentially Promotes Necroptosis of Lung Epithelial Cells by Upregulating MLKL. Cells, 11(3), 563. <https://doi.org/10.3390/cells11030563>

Idell, S., McPherson, D. D., Martin, J., Dentino, A., Ostrosky-Zeichner, L., Philley, J. V., McGaha, P., Devine, M., Bronicki, J., & Karp, D. D. (2022). The CTSA University of Texas Health Science Center (UTHSC) Northeast-Tyler and Rio Grande Valley Success Story: How Rural, Underserved Academic Communities Rapidly Built a Robust Engine for Collaborative COVID-19 Clinical Research. Journal of health care for the poor and underserved, 33(1), 517-527. <https://doi.org/10.1353/hpu.2022.0040>

Jung, B. G., Samten, B., Dean, K., Wallace, R. J., Jr, Brown-Elliott, B. A., Tucker, T., Idell, S., Philley, J. V., & Vankayalapati, R. (2022). Early IL-17A production helps establish Mycobacterium intracellulare infection in mice. PLoS pathogens, 18(4), e1010454. <https://doi.org/10.1371/journal.ppat.1010454>

Department of Cellular and Molecular Biology (continued)

Karandashova, S., Florova, G., Idell, S., & Komissarov, A. A. (2022). From Bedside to the Bench-A Call for Novel Approaches to Prognostic Evaluation and Treatment of Emyema. *Frontiers in pharmacology*, 12, 806393. <https://doi.org/10.3389/fphar.2021.806393>

Komatsu, S., Fan, L., Idell, S., Shetty, S., & Ikebe, M. (2022). Caveolin-1-Derived Peptide Reduces ER Stress and Enhances Gelatinolytic Activity in IPF Fibroblasts. *International journal of molecular sciences*, 23(6), 3316. <https://doi.org/10.3390/ijms23063316>

Logan, R., Jeffers, A., Qin, W., Owens, S., Chauhan, P., Komatsu, S., Ikebe, M., Idell, S., & Tucker, T. A. (2021). TGF- β regulation of the uPA/uPAR axis modulates mesothelial-mesenchymal transition (MesoMT). *Scientific reports*, 11(1), 21210. <https://doi.org/10.1038/s41598-021-99520-5>

Meganathan, V., Hamilton, C. E., Natarajan, K., Keshava, S., & Boggaram, V. (2022). NADPH and xanthine oxidases control induction of inflammatory mediator expression by organic dust in the lung. *FASEB journal: official publication of the Federation of American Societies for Experimental Biology*, 36(7), e22381. <https://doi.org/10.1096/fj.202100732R>

Qian, G., Adeyanju, O., Sunil, C., Huang, S. K., Chen, S. Y., Tucker, T. A., Idell, S., & Guo, X. (2022). Deducator of Cytokines 2 (DOCK2) Deficiency Attenuates Lung Injury Associated with Chronic High-Fat and High-Fructose Diet-Induced Obesity. *The American journal of pathology*, 192(2), 226–238. <https://doi.org/10.1016/j.ajpath.2021.10.011>

Qian, G., Adeyanju, O., Roy, S., Sunil, C., Jeffers, A., Guo, X., Ikebe, M., Idell, S., & Tucker, T. A. (2022). DOCK2 Promotes Pleural Fibrosis by Modulating Mesothelial to Mesenchymal Transition. *American journal of respiratory cell and molecular biology*, 66(2), 171–182. <https://doi.org/10.1165/rcmb.2021-0175OC>

Sakai, T., Choo, Y. Y., Sato, O., Ikebe, R., Jeffers, A., Idell, S., Tucker, T., & Ikebe, M. (2022). Myo5b Transports Fibronectin-Containing Vesicles and Facilitates FN1 Secretion from Human Pleural Mesothelial Cells. *International journal of molecular sciences*, 23(9), 4823. <https://doi.org/10.3390/ijms23094823>

Srivastava, S., Boorgula, G. D., Wang, J. Y., Huang, H. L., Howe, D., Gumbo, T., & Heysell, S. K. (2022). Rifampin Pharmacokinetics/Pharmacodynamics in the Hollow-Fiber Model of Mycobacterium kansasii Infection. *Antimicrobial agents and chemotherapy*, 66(4), e0232021. <https://doi.org/10.1128/aac.02320-21>

Srivastava, S., Gumbo, T., & Thomas, T. (2021). Repurposing Cefazolin-Avibactam for the Treatment of Drug Resistant Mycobacterium tuberculosis. *Frontiers in pharmacology*, 12, 776969. <https://doi.org/10.3389/fphar.2021.776969>

Srivastava, S., Pasipanodya, J. G., Heysell, S. K., Boorgula, G. D., Gumbo, T., McShane, P. J., & Philley, J. V. (2022). An overview of drugs for the treatment of Mycobacterium kansasii pulmonary disease. *Journal of global antimicrobial resistance*, 28, 71–77. <https://doi.org/10.1016/j.jgar.2021.12.010>

Tucker, T. A., & Idell, S. (2022). Update on Novel Targeted Therapy for Pleural Organization and Fibrosis. *International journal of molecular sciences*, 23(3), 1587. <https://doi.org/10.3390/ijms23031587>

Yang, F., Liu, L., Neuenschwander, P. F., Idell, S., Vankayalapati, R., Jain, K. G., Du, K., Ji, H., & Yi, G. (2021). Phage Display-Derived Peptide for the Specific Binding of SARS-CoV-2. *ACS omega*, 7(4), 3203–3211. <https://doi.org/10.1021/acsomega.1c04873>

PRESENTATIONS

Brown-Elliott, B. A. (23 April 2022). What Is New in Nocardiosis? [Virtual Presentation]. 32nd Annual Congress of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID), Lisbon, Portugal.

Hassanin, E., Terada, R., Alvarado, C., Wadle, C., Swindall, R., Cook, A., Devine, M., & Philley, J. (May 2022) The Use of Bruton Tyrosine Kinase Inhibitors in Severe Covid-19 Patients. American Thoracic Society. San Francisco, CA.

Jackson, K. A., Hernandez-Romieu, A. C., Barter, D., Czaja, C. A., Johnston, H., Lynfield, R., Tourdot, L., Snippes-Vagnone, P., Walters, J., Dumyati, G., Escutia, G., Pierce, R. A., Brown-Elliott, B., Salfinger, M., Winthrop, K., Toney, N. C., Magill, S. S., & Grigg, C. (June 2022). Feasibility assessment of population-based nontuberculous mycobacteria surveillance at four emerging infections program sites. 2022 CSTE Annual Conference, Louisville, KY.

Kusampudi, S., Meganathan, V., Keshava, S. & Boggaram, V. (2022). Purification and characterization of trypsin-like protease(s) from organic dust and studies of their effects on induction of inflammatory mediator expression in lung epithelial cells. ATS International Conference, 2022.



Meganathan, V., Stenhouse, M., Kusampudi, S., Boggaram, V. (2022). Aryl hydrocarbon receptor (AhR) regulates induction of lung inflammatory mediators by organic dust. ATS International Conference, 2022.

Samten, B. (Feb 28-March 2, 2022). Histone deacetylase 1 is required for the protective immunity against Mycobacterium tuberculosis infection through the regulation of STAT1 activation. RePort India 11th Annual Meeting (Virtual).

Samten, B. (November 25-27, 2021). ESAT-6: A Virulence Factor of Mycobacterium tuberculosis with Potential Immune Regulatory Activities for Immune Evasion and Lung Pathology. 42nd Annual Conference of Indian Association of Biomedical Scientists-Recent trends and Advances in Biomedical Sciences- an integrated approach (Semi-Virtual).

Singh, S., Boorgula, G. D., Shankar, P., Allffenaar, J.-W., Gumbo, T., & Srivastava, S. (2022). Meropenem-vaborbactam combination with old/new/repurposed drugs for treatment of MDR/XDR-TB. ASM Microbe 2022.

Weyer, A., Greenlee, K., Drake, T., Brown-Elliott, B., Wallace, R., Philley, J., & McShane, P. (May 17, 2022). Intramuscular Streptomycin for the Treatment of Pulmonary Mycobacterium Avium Complex Infection. American Thoracic Society 2022 International Conference.

GRANTS

Guo, Q. (PI), Idell, S. (Co-PI). Deducator of cytokines 2 in pleural fibrosis, USD \$362,800.

Lella Rao, V. The role of Gab2 signaling in thromboinflammation, National Institute of Allergy and Infectious Diseases (NIAID) (February 10, 2022), USD \$404,250.

Lella Roa, V. Tissue Factor's role in the pathogenesis of hypercoagulability in COVID-19, National Institute of Health (NIH) (March 2, 2022), USD \$404,250.

Lu, Maolin. Conformational landscape and dynamics of HIV-1 fusion protein required for virus entry, Gilead (January 3, 2022), USD \$130,000.

Lu, Maolin. Probing conformational dynamics of HIV-1 Env in real time and in situ during virus entry, National Institute of Health (NIH) (August 1, 2022), USD \$370,000.

McShane, P. Development of pulmonary nontuberculous mycobacterial disease symptom scale (NTM-SS), pulmonary NTM infection, FDA (September 30, 2021), USD \$53,822.

Department of Epidemiology and Biostatistics

CHAPTERS

Ndetan H., Evans, M., Singal, A., Brunner, L., Calhoun, K., Singh, K., Einstein, G., & Tulp, O. (2022). Assessment of Risks for Renal Dysfunction: An Approach towards Light to Moderate Drinking and Therapeutic Doses of Acetaminophen. In T. Ikeno (Ed.), *Current Practice in Medical Science* (Vol. 1, pp. 166-176). BP International. <https://doi.org/https://doi.org/10.9734/bpi/cpms/v1/2210B>

PRESENTATIONS

Hassanin, E., Terada, R., Alvarado, C., Wadle, C., Swindall, R., Cook, A., Devine, M., & Philley, J. (May 2022) The Use of Bruton Tyrosine Kinase Inhibitors in Severe Covid-19 Patients. American Thoracic Society. San Francisco, CA.

Leach, R. A., Evans, M. W., Ndetan, H., & King, J. A. (October 2021). Covid-19 prevention/mitigation practices by chiropractic physicians and massage therapists in Mississippi: A needs assessment to inform health promotion practice. American Public Health Association, 149th Annual Meeting and Exposition, Denver, CO.

Lustig, K., Kirk C., Ndetan, H., & Weatherford, L. (14 July 2022). Rocky Times: Why Agile Leadership is Crucial for Impact. [Panel Discussion]. Leadership Learning Network <https://vimeo.com/731888975>

Ndetan, H. (16 September 2021). Addressing health disparities: the challenge of unconscious bias. The ABCs of Health Disparities Conference: focus on education, UT Health Science Center at Tyler. <https://www.uttyler.edu/graduate/files/health-disparities-conference.pdf>

Ndetan, H., & Singh, K. (5 November 2021). Community-based implementation research on opioid and mental health in rural East Texas. 2nd Annual Marshall Business Research Conference, Brad D. Smith School of Business, Marshall University.

Ndetan, H. (April 2022). Reflections on COVID-19 & Agile Leadership. Leadership Learning Network: Community of Practice.

Ndetan, H. (April 2022). Unconscious Bias in Community Health – Mitigating Strategies Texas Area Health Education Center (AHEC) Public Health Week, [UT Health Science Center at Tyler].

Ndetan, H. (15 July 2022). Navigating the unconscious in patient encounters [Presentation]. 8th Annual Northeast Texas Community Health Workers' Coalition Conference, UT Health Science Center at Tyler.

Department of Family Medicine

JOURNAL PUBLICATIONS

Cage, S., Volpi, J., Jacobsen, A., Trail, L., Warner, B., Peebles, R., Galbraith, R. (2022). Competitive baseball pitchers' use of wearable technology. *Research & Investigation in Sports Medicine*, 9(1), 781-785.

Department of Gastroenterology

PRESENTATIONS

Martino, J., Chowdhury, O., Wadle, C., Swindall, R., Olusola, B., Carlton, A. (April 2022). Positive Fecal Immunochemical Test (FIT) and follow-up diagnostic colonoscopies in un-or under-insured individuals: assessing disparities in rural Northeast Texas. Southeastern Colorectal Cancer Consortium. Irving, TX.

Department of Medical Education

PRESENTATIONS

Hamidy, M., Patel, K., Gupta, S., Kaur, M., Smith, J., Gutierrez, H., El-Farra, M., Albasha, N., Rajan, P., Salem, S., Maheshwari, S., Davis, K., & Willis, B. C. (2022). Leadership in Action: A Student-Run Designated Emphasis in Healthcare Leadership. *Southwest Journal of Pulmonary Critical Care & Sleep*, 24(3), 46-54. <https://doi.org/10.13175/swjpcps 007-22>

Stave, E. A., Greenberg, L., Hamburger, E., Ottolini, M., Agrawal, D., Lewis, K., Barber, J. R., Bost, J. E., & Harahsheh, A. S. (2022). An educational intervention to facilitate appropriate subspecialty referrals: a study assessing resident communication skills. *BMC medical education*, 22(1), 533. <https://doi.org/10.1186/s12909-022-03592-4>

POSTER PRESENTATIONS

Kang, C., Choate, R., Metersky, M., Shah, T., Rohret, O., Lapinel, N., Maselli, D., & McShane, P. (May 2022). Bronchiectasis and Gender: Results from the National Bronchiectasis and NTM Research Registry. American Thoracic Society. San Francisco, CA.

Martino, J., Chowdhury, O., Wadle, C., Swindall, R., Olusola, B., & Carlton, A. (April 2022). Positive Fecal Immunochemical Test (FIT) and follow-up diagnostic colonoscopies in un-or under-insured individuals: assessing disparities in rural Northeast Texas. Southeastern Colorectal Cancer Consortium. Irving, TX.

PRESENTATIONS

Bhavaraju, V., Panchanathan, S., Willis, B., & Garcia-Filion, P. (24 April 2022). From Experience to Competence: Mining the Electronic Health Record to Measure Clinical Experiences in Pediatric Trainees. PAS 2022, Denver, CO.

Hadinger, M., Willis, B., Levesque, J., Andolsek, K., Hall, S., & Broquet, K. (2022). Development of an Evidence-Based Compendium of Institutional Graduate Medical Education Leadership Competencies (GMELCs). 2022 ACGME Annual Educational Conference: Virtual Experience.

Lewis, K. (March 2022). Applying the ASPE Standards of Best Practice. Simulation Forum at Texas Children's Hospital, Houston, TX.

Lewis K, Yelen, M., Webster T. (June 2022). Applying the ASPE Standards of Best Practice (SOBP) to your context [Presentation]. Association of Standardized Patient Educators Conference, New Orleans, LA.

Lewis K., Yelen, M., Webster T. (June 2022). Exploring the Application of the ASPE SOBP via case studies [Preconference Workshop]. Association of Standardized Patient Educators Conference, New Orleans, LA.

Lustig, K., Kirk C., Ndetan, H., Weatherford, L. (14 July 2022). Rocky Times: Why Agile Leadership is Crucial for Impact. [Panel Discussion]. Leadership Learning Network. <https://vimeo.com/731888975>

Ndetan, H., & Singh, K. (5 November 2021). Community-based implementation research on opioid and mental health in rural East Texas. 2nd Annual Marshall Business Research Conference, Brad D. Smith School of Business, Marshall University.

Ndetan, H. (April 2022). Reflections on COVID-19 & Agile Leadership. Leadership Learning Network: Community of Practice.

Ndetan, H. (15 July 2022). Navigating the unconscious in patient encounters [Presentation]. 8th Annual Northeast Texas Community Health Workers' Coalition Conference, UT Health Science Center at Tyler.

Swing, E., Bhavaraju, V., Wyst, K. V., & Willis, B. (17 May 2022). Recipients of A Learner Research Fund At A Free-Standing Children's Hospital. APPD 2022 Annual Spring Meeting, San Diego, CA.



Department of Occupational and Environmental Medicine

JOURNAL PUBLICATIONS

Cook, A., Fry, R., Desai, Y., Swindall, R., Boyle, J., Wadle, C., Casanova, V., Cloonan, M., Rogers, F., Horst, M., Morgan, M., & Norwood, S. (2022). Agricultural Injury Surveillance Using a Regional Trauma Registry. *The Journal of surgical research*, 273, 181–191. <https://doi.org/10.1016/j.jss.2021.11.018>

Rosero, D. V., Soto Mas, F., Sebastian, R., Guldán, S., Casanova, V., & Nervi, L. (2021). COVID-19 Prevalence and Prevention Behaviors Among US Certified Organic Producers. *Journal of occupational and environmental medicine*, 63(12), e937–e943. <https://doi.org/10.1097/JOM.0000000000002411>

POSTER PRESENTATIONS

Carruth, A., Levin, J., & Sirikul, B. (12-16 June 2022). Physiological and perceptual heat strain during simulated fishing tasks in a hot and humid environment [Poster Presentation]. International Society for Agricultural Safety and Health (ISASH) annual conference, Ft. Collins, Colorado.

Ho, T., Levin, J., & Ndetan, H. (1 May 2022). Improving crew-overboard recovery for commercial fishing vessels in the Gulf of Mexico [Poster Presentation]. American Occupational Health Conference (AOHC) 2022 Salt Lake City, Utah.

Nwaigwe, I., & Casanova, V. (2022). Trends and Obstacles to COVID-19 Vaccination among Fishermen in the Gulf of Mexico. American Occupational Health Conference (AOHC) 2022, Salt Lake City, UT.

PRESENTATIONS

Caban-Martinez, A., Nessim, D., Parvanta, C., & Thiese, M. (2 May 2022). A mixed methods assessment of SARS-CoV-2 testing of workers: facilitators, barriers, and implications for social marketing [Presentation]. American Occupational Health Conference, Salt Lake City, UT.

Casanova, V. (September 16-17, 2021). Foundations of Rural Health Disparities. The ABCs of Health Disparities Conference: Focus on Education, Tyler, Texas.

Elliott, K. C., & Levin, J. (May 2022). Working hours, sleep, and fatigue across the agriculture, forestry, and fishing sector: the current state of the science [Hybrid Presentation]. National Occupational Injury Research Symposium (NOIRS) 2022. https://www.cdc.gov/niosh/noirs/2022/pdfs/noirs_2022_book-508.pdf

Lambert, S., Wickman, A., & Casanova, V. (March 29, 2022). Stress Assistance for Agricultural Workers: Reducing stigma around mental health in AgFF communities through social media. Agriculture Safety & Health Council of America North American Agricultural Safety Summit, Las Vegas, NV.

Levin, J. (25 September 2021). Traits of a Highly Effective Safety Leader. 2021 Day of the Construction Worker, Dallas, TX.

Levin, J. (10 November 2021). The importance and benefits of systematic data collection, management, and sharing in healthcare and research: Why? What? Where? How? [Virtual Presentation]. CAPSA-ET Research Training Series.

Levin, J. (3 February 2022). Improving crew overboard (COB) recovery for commercial fishing vessels in the Gulf of Mexico (GOM). NIOSH/CDC/USCG Commercial Fishing Occupational Safety & Health Research Grants Quarterly Meeting.

Levin, J. L. (18 April 2022). Physical Factors Affecting Health in Agriculture [Virtual Presentation]. Agricultural Workshop/Agricultural Medicine Course, Texas College of Osteopathic Medicine, Office of Rural Medical Education.

Levin, J., Sorensen, J., & Quinn, B. (27 April 2022). AgFF and OM residents: what is the relevance? [Virtual Presentation]. Didactic and Grand Rounds, Mount Sinai Hospital Occupational Medicine Residency.

Levin, J. L. (moderator), Litaker, J., McGaha, P., & Roberts, G. T. (June 24, 2022). Pandemic Public Health Response: Looking in the Rearview Mirror. Emerging Issues in Occupational, Environmental and Preventive Medicine Conference, University of Texas at Tyler Health Science Center, Tyler.



McGaha, P., Cummins, T., Crum, M., & Levin, J. (January 21, 2022). COVID-19 update: the Omicron variant and beyond. Grand Rounds panel presentation at The University of Texas at Tyler Health Science Center.

Moore, K. G., Caban-Martinez, A., Ball, C., Eastlake, A., Levin, J., Nessim, D., Parvanta, C., These, M., & Schulte, P. (9 December 2021). Employer Perceptions and approaches to testing for SARS-CoV-2: a total worker health perspective [Virtual Presentation]. Ex4OSH 2021 Expanding Occupational Safety and Health: An International Conference.

Nessim, D. (June 2022). Employer Testing of COVID-19 History (ETCH) Emerging Issues in Occupational, Environmental and Preventive Medicine Conference, UT Health Science Center at Tyler.

GRANTS

Casanova, V. COVID-19 Health Disparities Program, Centers for Disease Control and Prevention (December 10, 2021), USD \$475,001.

Casanova, V. Development and Implementation of a Mental Health and Suicide Prevention Program for Texas Farmers, Texas Department of Agriculture (September 1, 2021), USD \$100,000.

Crum, M. COVID-19 Vaccine Outreach and Education, Texas Department of State Health Services (November 10, 2021), USD \$293,756.

Department of Preventative Medicine and Population Health

JOURNAL PUBLICATIONS

Pulitzer, Z., Box, M., Hansen, L., Tiruneh, Y. M., & Nijhawan, A. E. (2021). Patient, medical and legal perspectives on reentry: the need for a low-barrier, collaborative, patient-centered approach. *Health & justice*, 9(1), 37. <https://doi.org/10.1186/s40352-021-00161-7>

PRESENTATIONS

Tiruneh, Y. M. (2021). Key steps in Conducting Scientific Research. CAPSA Capacity Building Workshop. UT Health Science Center at Tyler, Tyler, TX.



Department of Surgery, Division of Trauma Surgery/Department of Epidemiology and Biostatistics

JOURNAL PUBLICATIONS

Cook, A., Fry, R., Desai, Y., Swindall, R., Boyle, J., Wadle, C., Casanova, V., Cloonan, M., Rogers, F., Horst, M., Morgan, M., & Norwood, S. (2022). Agricultural Injury Surveillance Using a Regional Trauma Registry. *Journal of Surgical Research*, 273, 181-191. <https://doi.org/10.1016/j.jss.2021.11.018>

Duchesne, J., Slaughter, K., Puente, I., Berne, J. D., Yorkgitis, B., Mull, J., Sperry, J., Tessmer, M., Costantini, T., Berndtson, A. E., Kai, T., Rokvic, G., Norwood, S., Meadows, K., Chang, G., Lemon, B. M., Jacome, T., Van Sant, L., Paul, J., . . . Tatum, D. (2022). Impact of time to surgery on mortality in hypotensive patients with noncompressible torso hemorrhage: An AAST multicenter, prospective study. *The journal of trauma and acute care surgery*, 92(5), 801-811. <https://doi.org/10.1097/TA.0000000000003544>

Edwards, R. D., Fernandez, L. G., O'Keefe, S., Baribault, M., & Matthews, M. R. (2022). Reimagining the Visceral Protective Layer with Tailored Manipulation: A Case Report. *Surgical Science*, 13(02), 53-65. <https://doi.org/10.4236/ss.2022.132009>

Esposito, E., Kufera, J. A., Wolff, T. W., Spalding, M. C., Simpson, J., Dunn, J. A., Zier, L., Burruss, S., Kim, P., Jacobson, L. E., Williams, J., Nahmias, J., Grigorian, A., Harmon, L., Gergen, A., Chatoor, M., Rattan, R., Young, A. J., Pascual, J. L., . . . Lauerman, M. H. (2022). Factors Associated with Stroke Formation in Blunt Cerebrovascular Injury: An EAST Multicenter Study. *The journal of trauma and acute care surgery*, 92(2), 347-354. <https://doi.org/10.1097/TA.0000000000003455>

Fernandez, L., Schar, A., Matthews, M., Kim, P. J., Thompson, C., Williams, N., & Stutsman, M. (2021). Synthetic Hybrid-Scale Fiber Matrix in the Trauma and Acute Care Surgical Practice. *Wounds: a compendium of clinical research and practice*, 33(9), 237-244. <https://doi.org/10.25270/wnds/2021.237244>

Ghneim, M., Brasel, K., Vesselinov, R., Albrecht, J., Liveris, A., Watras, J., Michetti, C., Haan, J., Lightwine, K., Winfield, R., Adams, S., Podbielski, J., Armen, S., Zacko, J. C., Nasrallah, F., Schaffer, K., Dunn, J., Smoot, B., Schroepfel, T., . . . Additional Study Group Members of The American Association for the Surgery of Trauma Geri-TBI Study. (2022). Traumatic Brain Injury in Older Adults: Characteristics, Outcomes, and Considerations. Results from the American Association for the Surgery of Trauma Geriatric Traumatic Brain Injury (GERI-TBI) Multicenter Trial. *Journal of the American Medical Directors Association*, 23(4), 568-575. <https://doi.org/10.1016/j.jamda.2022.01.085>

Heiner S.M., Keihani S., McCormick B.J., Fang E., Hagedorn J.C., Voelzke B., Nocera A.P., Selph J.P., Arya C.S., Sensenig R.L., Rezaee M.E., Moses R.A., Dodgion C.M., Higgins M.M., Gupta S., Mukherjee K., Majercik S., Smith B.P., Glavin K., Broghammer J.A., Schwartz I., Elliott S.P., Breyer B.N., Castillejo Becerra C.M., Baradaran N., DeSoucy E., Zakaluzny S., Erickson B.A., Miller B.D., Santucci R.A., Askari R., Carrick M.M., Burks F.N., Norwood S., Nirula R., Myers J.B., in conjunction with the Trauma Urologic Reconstruction Network of Surgeons. (2021). Nephrectomy after high-grade renal trauma is associated with higher mortality: results from the multi-institutional genitourinary trauma study (MiGUTS). *Urology*, 157, 246-252. <https://doi.org/10.1016/j.urology.2021.07.033>

Kashkoush, A., Petitt, J. C., Ladhani, H., Ho, V. P., Kelly, M. L., & American Association for the Surgery of Trauma, GERI-TBI Study Group. (2022). Predictors of Mortality, Withdrawal of Life-Sustaining Measures, and Discharge Disposition in Octogenarians with Subdural Hematomas. *World Neurosurgery*, 157, e179-e187. <https://doi.org/10.1016/j.wneu.2021.09.121>

Lauerman, M., Esposito, E., Spalding, C., Simpson, J., Dunn, J. A., Zier, L., Burruss, S., Kim, P., Jacobson, L. E., Williams, J., Nahmias, J., Grigorian, A., Harmon, L., Gergen, A., Chatoor, M., Rattan, R., Young, A. J., Pascual, J. L., Murry, J., Ong, A. W., . . . Stein, D. M. (2022). Endovascular Intervention in Internal Carotid Artery Blunt Cerebrovascular Injury: An EAST Multicenter Study. *The American surgeon*, 88(8), 1962-1969. <https://doi.org/10.1177/00031348221078958>

Swindall, R., Roden-Forman, J. W., Conflitti, J., Cook, A., Wadle, C., Boyle, J., Ward, J., Gross, B., Rogers, F., Le, T. D., & Norwood, S. (2022). Elderly trauma associated with high-risk recreational activity: A population-based study, United States, 2010 through 2016. *Surgery*, 171(5), 1677-1686. <https://doi.org/10.1016/j.surg.2021.11.014>

Taghavi, S., Maher, Z., Goldberg, A.J., Haut, E.R., Raza, S., Chang, G., Tatebe, L.C., Toraih, E., Mendiola, M., Anderson, C., Ninokawa, S., Maluso, P., Keating, J., Burruss, S., Reeves, M., Coleman, L.E., Shatz, D.V., Goldenberg-Sandau, A., Bhupathi, A., Spalding, M.C., LaRiccia, A., Bird, E., Noorbakhsh, M.R., Babowice, J., Nelson, M.C., Jacobson, L.E., Williams, J., Vella, M., Dellonte, K., Hayward, T.Z., Holler, E., Lieser, M.J., Berne, J.D., Mederos, D.R., Askari, R., Okafor, B., Etchill, E., Fang, R., Roche, S.L., Whittenburg, L., Bernard, A.C., Haan, J.M., Lightwine, K.L., Norwood, S.H., Murry, J., Gamber, M.A., Carrick, M.M., Bugaev, N., Tatar, A., Tatum, D. (2022). An analysis of police transport in an Eastern Association for the Surgery of Trauma multicenter trial examining prehospital procedures in penetrating trauma patients. *The journal of trauma and acute care surgery*, 93(2), 265-272. <https://doi.org/10.1097/TA.0000000000003563>

Tran, Z., Zhang, W. H., Verma, A., Cook, A., Kim, D., Burruss, S., Ramezani, R., & Benharash, P. (2022). The derivation of an International Classification of Diseases, Tenth Revision-based trauma-related mortality model using machine learning. *Journal of Trauma and Acute Care Surgery*, 92(3), 561-566. <https://doi.org/10.1097/TA.0000000000003416>

Yang, S., Esposito, E., Spalding, C., Simpson, J., Dunn, J. A., Zier, L., Burruss, S., Kim, P., Jacobson, L. E., Williams, J., Nahmias, J., Grigorian, A., Harmon, L., Gergen, A., Chatoor, M., Rattan, R., Young, A. J., Pascual, J. L., Murry, J., . . . Lauerman, M. (2022). Grade 1 internal carotid artery blunt cerebrovascular injury persistence risks stroke with current management: an EAST multicenter study. *The American Surgeon*, 31348221082277. <https://doi.org/10.1177/00031348221082277>

Department of Surgery, Division of Trauma Surgery/Department of Epidemiology and Biostatistics (continued)

PRESENTATIONS

Amato, S., Benson, J., Cook, A., Stewart, B., Osler, T., Hosmer, D., Winchell, R., An, G., & Malhotra, A. (2022). Access to Trauma Center Care and Its Impact on Injury Mortality in the United States. Association for Academic Surgery Academic Surgical Congress, Orlando, FL.

Hassanin, E., Terada, R., Alvarado, C., Wadle, C., Swindall, R., Cook, A., Devine, M., & Philley, J. (May 2022) The Use of Bruton Tyrosine Kinase Inhibitors in Severe Covid-19 Patients. American Thoracic Society. San Francisco, CA.

Islam, N., Sexe, J., Wadle, C., Swindall, R., Cook, A., & Torres-Heisecke, R. (April 2022). The Association of Atrial Fibrillation and Mitral Regurgitation in East Texas. Tyler Cardiovascular Consultants Research Day. Tyler, TX.



School of Nursing

At the School of Nursing, our mission is to “empower students to excel as nurseB clinicians, leaders, and scholars in a caring, learner-centered, strengths-basedB environment”. With 2,114 students enrolled this spring in undergraduate, master’s,B and doctoral degree programs, the School of Nursing comprises 24% of theB university’s enrollment. As a practice discipline, the Scholarship of Practice isB deeply embedded in our programs. Faculty and students actively participate inB caring for individuals, families, and communities throughout the region. They areB engaged in acute care, advanced practice, and community health settings.

School of Nursing faculty are not only active in the Scholarship of Practice, butB they also engage in the Scholarship of Discovery. Despite the continuedB challenges associated with nursing shortages and the need to focus on deliveryB of care, School of Nursing faculty published 30 journal articles, two book chapters,B and gave 62 professional presentations, including 27 poster and 35 podiumB presentations, this past academic year. The work performed by faculty wasB supported by over \$1.5 million in current grant funding, much of it focused onB delivery of care to rural communities. Examples include grant funding to supportB education of Psychiatric Mental Health Nurse Practitioners in underservedB communities, caring for victims of human trafficking, Covid vaccine outreach inB rural east Texas, educating the next generation of nursing faculty, outreach in theB greater Longview region, and providing psychological and exercise support toB persons with cancer living in rural communities.

This year we were pleased to create and fill a new position for an Associate DeanB for Research within the School of Nursing. Dr. Susan McBride, an internationallyB renowned scholar with expertise in big data science and analytics, works closelyB with faculty within the school, across campus, and stakeholders in theB community to advance the Scholarship of Discovery. The School of Nursing is oneB of four health-related schools under the Health Affairs Division. Working withB colleagues from the School of Health Professions, School of Medicine, and SchoolB of Pharmacy, we will continue to expand our understanding of health-relatedB 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

CHAPTERS

Parker, C. D. (2022). Nursing informatics. In *Nursing today: Transition and trends* (11th). Elsevier.

JOURNAL PUBLICATIONS

Abel, W. M., Greer, D. B., Sue-Ling, C., & Kirkland, T. W. (2022). Antihypertensive medication adherence and persistence among Black women: A qualitative study. *The Nurse practitioner*, 47(3), 40–47. <https://doi.org/10.1097/01.NPR.0000819620.71567.0e>

Chapman, B. (2021). “The Significance of the NP Preceptorship Shortage.” *Online Journal in Nursing*, 26(1), Article 1. <https://doi.org/10.3912/OJIN.Vol26No01Man05>

Gunawan, J., Marzilli, C., & Aunguroch, Y. (2021). Establishing appropriate sample size for developing and validating a questionnaire in nursing research. *Belitung Nursing Journal*, 7(5), 356–360. <https://doi.org/10.33546/bnj.1927>

Gunawan, J., Aunguroch, Y., Watson, J., & Marzilli, C. (2022). Nursing administration: Watson’s Theory of Human Caring. *Nursing Science Quarterly*, 35(2), 235–243. <https://doi.org/10.1177/08943184211070582>

Gunawan, J., Aunguroch, Y., Fisher, M., Marzilli, C., Nazliansyah, N., & Sukarma, A. (2022). Identifying and understanding challenges to inform new approaches to improve vaccination rates: A qualitative study in Indonesia. *Journal of Nursing Scholarship*, 2022(00), 1–11. <https://doi.org/10.1111/jnu.12793>

Gunawan, J., & Marzilli, C. (2022). Senior first, junior second. *Nursing forum*, 57(1), 182–186. <https://doi.org/10.1111/nuf.12654>

Gunawan, J., Marzilli, C., & Aunguroch, Y. (2022). Sustaining e-Caring leadership in a post-pandemic world. *Belitung Nursing Journal*, 8(1), 1–3. <https://doi.org/10.33546/bnj.2039>

Greer, D. B., & Abel, W. M. (2022). Exploring Feasibility of mHealth to Manage Hypertension in Rural Black Older Adults. *Patient Preference and Adherence*, 2022(16), 2135–2148. <https://doi.org/10.2147/PPA.S361032>

Harrington, L., Parker, C. D., Ulanday, K., & Harrington, C. (2021). Heuristic Evaluation of Top-Rated Diabetes App. *Applied Clinical Informatics (ACI) Journal*, 12(5), 1014–1020. <https://doi.org/10.1055/s-0041-1736628>



School of Nursing (continued)

Heagele, T. N., Adams, L. M., McNeill, C. C., & Alfred, D. M. (2022). Validation and Revision of the Household Emergency Preparedness Instrument (HEPI) by a Pilot Study in the City University of New York. *Disaster medicine and public health preparedness*, 17, e126. <https://doi.org/10.1017/dmp.2022.35>

Hermanns, M., & Mastel-Smith, B. (2021). "The whole day, I might not say a word": Responses to the Pandemic by People with Parkinson's. *Journal of the American Nurses Association of New York (JANANY)*, 1(2), 25–32. <https://dx.doi.org/10.47988/janany.28644764.1.2>

Higbee, M. R., Gipson, C. (Christy) S., & El-Saidi, M. (2022). Caffeine Consumption Habits, Sleep Quality, Sleep Quantity, and Perceived Stress of Undergraduate Nursing Students. *Nurse Educator*, 47(2), 120–124. <http://10.1097/NNE.0000000000001062>

Jones, K., McAlister, B. S., Haas, B. K., & Duke, G. (2021). Experience of African American Mothers Following Their Infant's Deaths. *Nursing for Women's Health*, 25(6), 412–421. <https://doi.org/10.1016/j.nwh.2021.09.004>

Kimzey, M., Patterson, J., & Mastel-Smith, B. (2021). Nursing Students Visiting People with Dementia Online during COVID-19: A Qualitative Study. *Journal of Intergenerational Relationships*, 20(1), 1–17. <https://doi.org/10.1080/15350770.2021.1985033>

Kimzey, M., & Mastel-Smith, B. (2022). Impact of dementia simulation on nursing students: When empathy breeds awareness. *Teaching and Learning in Nursing*, 17, 169–173. <https://doi.org/10.1016/j.teln.2021.11.010>

Madden, M. A., & McAlister, B. S. (2022). A Time to Speak: When Incivility Injures Patients. *Journal of Christian nursing: a quarterly publication of Nurses Christian Fellowship*, 39(3), 174–178. <https://doi.org/10.1097/CNJ.0000000000000971>

Marzilli, C. (2022). Climate change: What nurses need to know today. *Texas Nurses Association Practice Tip of the Week*.

Marzilli, C. (2022). Creating the future of nursing in the post-pandemic world. *Belitung Nursing Journal*, 8(3), 185–186. <https://doi.org/10.33546/bnj.2186>

Mastel-Smith, B., Kimzey, M., Patterson, J., & Garner, J. (2021). Online Dementia Bootcamp for High School Students. *Journal of Dementia Care*. <https://journalofdementiacare.co.uk/article/online-dementia-bootcamp-for-high-school-students>

Miles, J., & Lee, M. A. (2022). Undergraduate Nursing Students' Use of Mobile Clinical Decision Support Resources: A Literature Review. *Journal of Informatics Nursing*, 7(2), 6–23.

Montalvo-Liendo, N., Chilton, J., Page, R., & Nava, A. (2022). The Process of Nurse Led Long-Term Support Groups for Survivors of Intimate Partner Violence. *Journal of Aggression, Conflict and Peace Research*, 14(1), 3–13.

Panda, P., Miller, C. L., Greenbaum, J., & Stoklosa, H. (2021). Newly Released Core Competencies. An Essential Component to Health Systems' Response to Human Trafficking. *United Nations University Center for Policy Research Delta* 8.7.

Preston, A. J., Rew, L., & Young, C. C. (2022). A systematic scoping review of psychological capital and mental health in relation to adolescents and young adults. *Journal of School Nursing*. <https://doi.org/10.1177/10598405211060415>

Shibata, T., Petersen, S. W., Darling, K., Inoue, K., Martyn, K., Hori, Y., Lane, G., Park, D., Mizoguchi, R., Takano, C., Harper, S., Leeson, G. W., & Coughlin, J. F. (2021). PARO as a Biofeedback Medical Device for Mental Health in the COVID-19 Era. *Psychology of Sustainability and Sustainable Development*. <https://doi.org/10.3390/su132011502>

OTHER TEACHING MATERIALS

Parker, C. D. (2021). Microsoft Excel for Clinicians Video 6 module series. In *American Nursing Informatics Association and UT Tyler*.

POSTER PRESENTATIONS

Ameringer, S., Mastel-Smith, B., & Boerner, A. (2022, February). The Nursing Education Xchange (NEXus): A Successful Nursing Educational Partnership for Doctoral Education. In *The Southern Nursing Research Society Annual Conference. The Southern Nursing Research Society*.

Kimzey, M., Mastel-Smith, B., & Patterson, J. (2021, November). Nursing Students Visiting People with Dementia Online during COVID-19: A Qualitative Study. In *GSA Annual Scientific Meeting. GSA*.

Lake, P. K., & Cooper, C. (2022, June). Women's Use of Complementary and Alternative Medicine-A Qualitative Cross-Cultural Study. In 2022: The 42nd Annual AHNA Conference. *American Holistic Nurses Association (AHNA)*.

Morgan, V., & Miles, J. (2022, June). Medication administration error reporting and just culture: ANA and NLN perspectives. In *Providence 6th Annual Providence Nurse Research Conference: Partnering for a Healthier Workforce and Community. Providence*. https://digitalcommons.psjhealth.org/prov_rn_conf_22/2022/posters/25/

Preston, A., Faghihifar, J. A., & Wallace-Gay, T. D. (2022, February). An interdisciplinary approach to reducing health disparities among people experiencing poverty: The future of nursing in practice. In *NCLEX NexGen Conference (NurseTim). UT Tyler*.

Preston, A., Rew, L., & Young, C. C. (2022, March). The relationship between psychological capital and mental health among diverse adolescents and emerging young adults: A scoping review. In *St. David's Annual CHPR Conference. UT Austin*.

Vaughn, T., Lee, S., & Mastel-Smith, B. (2022, Spring). Veterans Experiencing Homelessness: Exploring Help-Seeking Intentions at a Stand Down Event. In *Partnerships in Veteran & Military Health: Inspiring a Community of Care and Connection. University of Colorado Anschutz*.

PRESENTATIONS

Barnes, G. A. (2022, April). Current state of vaccine hesitancy and future changes in NE Texas. In *Covid vaccine coalition for NE Texas. NETHealth*.

Cartwright, A. (2022, April). Whole Food Plant-Based Nutrition: What Every Nurse Needs to Know. In *Sigma Iota Nu Chapter-at-Large Spring Research Meeting. Sigma Iota Nu Chapter-at-Large*.

Gehring, J., Chilton, J. M., Scott, D. M., & Preston, A. (2022, April). Safe University Learning Environments at UT Tyler Summary Report Part 1. In *Provided to Title IX Coordinator UT Tyler Blake Bumbard April 15, 2022. Office of Sponsored Research UT Tyler Presidential Interdisciplinary Grant*.

Haas, B. K. (2021, October). Addressing the Healthcare Challenges in East Texas. In *Enlightened Leadership for the Future: Leading in the Lone Star State. Leadership Women Texas*.

Hermanns, M., & Hebert, J. M. (2022, February). Aware in Care. In *Tyler Kung Fu & Fitness - Rock Steady Boxing for Persons with Parkinson's disease*.

Jowell, V. L. (2022, April 13). Nursing Jurisprudence: Legal & Ethical Considerations: Part I Foundations of Practice. In *Texarkana College Mini Conference. National Student Nurses Association*.

Lee, M. A., Wilson, J., Morgan, V., Ochieze, F., Le, A., Miles, J., & Aguirri, A. (2021, December). Nursing Handoff Education from Faculty and Nurse Perspectives. In *Transform 2021. American Association of Colleges of Nursing (AACN)*.

Marzilli, C., & Weinstein, S. (2021, Autumn). Together we can... improve working conditions and enhance well-being: Lessons learned... maintaining safety on the frontline. In *International Council of Nurses Congress 2021: Nursing Around the World. International Council of Nurses*.

Marzilli, C. (2022, Spring). Diabetes. In *FFC Monthly Training. Family First*.

Marzilli, C. (2022, Spring). Urgent care emergencies. In *FFC Monthly Training. Family First*.

Marzilli, C., & Willis, K. (2022, Spring). Medical racism and how to embrace a culture of justice, equity, diversity, and inclusion. In *National Academies of Practice Annual Meeting. National Academies of Practice*.

Marzilli, C., & Willis, K. (2022, Spring). Unconscious, implicit, and explicit bias and the implications for diversity, equity, and inclusion. In *National Academies of Practice Annual Meeting. National Academies of Practice*.

Mastel-Smith, B., & Kimzey, M. (2022, May). Health Care for People with Dementia Post Pandemic. In *International Nurses Day Conference. Shandong University of Traditional Chinese Medicine*.

Page, R., Montalvo-Liendo, N., Chilton, J. M., & Nava, A. (2021, October). Nurse-led Long-term Support Groups for Latina Survivors of Intimate Partner Violence. In *47th Annual Conference of The Transcultural Nursing Society. Transcultural Nursing Society*.

Petersen, S. W. (2022, Spring). WORLD Radio interview. In *The use of therapeutic robots in the long term care setting. WORLD Radio*.

Rizer, C. A. (2022, April). Academic and Community Partnerships & Health Resources & Services Administration (HRSA). In *East Texas Research Conference. The University of Texas at Tyler*.

School of Nursing (continued)

Utley, G. J., & Cuervo-Utley, A. (2022). Medical Spanish for Advanced Practice Nursing Preceptors. In C. A. Rizer (Ed.), Online CEU bearing conference offered free for qualified UT Tyler Advanced Practice Nursing Preceptors. UT Tyler Department of Literature & Languages, The School of Nursing & The INTUNE HRSA ANEW Grant.

GRANTS

Chilton, J. Innovations in Nursing Scholarship Prepare and Inspire Robust Educators (INSPIRE), Health Resources and Services Administration (July 1, 2022), USD \$323, 208.

Alfred, D. (PI), and Sorensen, W. (Co-PI). Community-Based Workforce to Increase COVID-19 Vaccinations in Underserved Communities, Health Resources and Services Administration through The University of Texas Health Science Center at Tyler (November 1, 2021), USD \$655,701.



Soules College of Business

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 to be ranked # 53 according to Fortune magazine. 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

Dean, Soules College of Business

Computer Science

CHAPTERS

Veronin, M. A., Schumaker, R. P., Dixit, R. R., & Elath, H. (2022). Opioids and Frequency Counts in the U.S. Food and Drug Administration Adverse Event Reporting System (FAERS) Database. In *Current Aspects in Pharmaceutical Research and Development* Vol. 8 (p. Chapter 4 Page 35–43). BP International. <https://stm.bookpi.org/CAPRD-V8/issue/view/543>

JOURNAL PUBLICATIONS

Chung, W., Mustaine, E. E., & Zeng, D. (2021). A Computational Framework for Social-Media-based Business Analytics and Knowledge Creation: Empirical Studies of CyTraSS. *Enterprise Information Systems*, 15(10), 1460–1482. <https://doi.org/10.1080/17517575.2020.1827299>

Kulkarni, A. D. (2022). Deep Convolution Neural Networks for Image Classification. *International Journal of Advanced Computer Science Applications (IJACSA)*, 13(6), 18–23. <https://dx.doi.org/10.14569/IJACSA.2022.0130603>

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POSTER PRESENTATIONS

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PROCEEDINGS PUBLICATIONS

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Accounting, Finance and Business Law

JOURNAL PUBLICATIONS

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PRESENTATIONS

Cater, J., Young, M., Al-Shammari, M., Rocha, R., & Willis PhD, CPA, CGMA, V. F. (2022, March). Do Personal Characteristics and Behaviors Affect Entrepreneurial Intentions?. In Association for Small Business and Entrepreneurship. Federations of Business Disciplines.

Chen, Y., Liang, H., Park, J. C., & Yang, Z. (2021, October). Local corruption and CEO compensation. In Financial annual meeting.

PRESENTATIONS

Cowart, T. W. (2021, August). Federal Enforcement Actions against Healthcare Organizations for Covid-19 Violations. In Academy of Legal Studies in Business Annual Conference. Academy of Legal Studies in Business.

Cowart, T. W., & Bock, G. L. (2022, February). Legal and Ethical Issues in COVID-19 Vaccine Patent Waivers. In Association for Practical and Professional Ethics International Conference. Association for Practical and Professional Ethics.

Fischer, M. (2022, March). Accessibility when Appropriate. In GNP AAA Annual Meeting. American Accounting Association.

Fischer, M. (2022, July). Fundamentals of College and University Accounting. In College Business Management Institute. Southern Association of College and University Business Officers.

Fischer, M., Churyk, N., Showalter, S., Wolcott, S., & Sage, J. (2022, August). Hints for Changing the Accounting Curriculum. In American Accounting Association Annual Meeting. American Accounting Association.

Kim, H., Fang, S., & Alam, P. (2022, April). Time to Shuffle? Customer CEO Turnover and the Restructuring of Supply Chain Relationship. In UTT and TJC Accounting Education and Research Forum. University of Texas at Tyler and Tyler Junior College.

Liang, H. (2021, November). Operating leverage and real earnings management. In Southern Finance Association.

Lirely, R. (2022, Spring). Preparing Curriculum for the CPA Evolution. In Accounting Education Conference. Tyler Junior College.

Willis, V. F., & Cowart, T. W. (2022, March). Consumer Information Privacy: Are We There Yet? A Comparison of the Privacy Management Framework and Current Federal Privacy Laws. In American Accounting Association, Southwest Region. Federation of Business Disciplines.

REVIEWS

H, Kim. (2022). Textbook Review: Cost Accounting with Integrated Data Analytics, 1st Edition. By Karen Congo Farmer and Amy Fredin.

Human Resource Development

JOURNAL PUBLICATIONS

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Cho, Y., Kim, S., You, J., Han, H., Kim, M., & Yoon, S. (2021). How South Korean women leaders respond to their token status: Assimilation and resistance. *Human Resource Development International*, 24(4), 377-400. <https://doi.org/10.1080/13678868.2021.1885207>

Cho, Y. (2022). Comparing integrative and systematic literature reviews. *Human Resource Development Review*, 21(2), 147-151. <https://doi.org/10.1177/15344843221089053>

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Cho, Y., Grenier, R., & Williams, P. (2022). Introduction: Innovation in qualitative research in HRD. *European Journal of Training and Development*, 46(7/8), 685-692. <https://doi.org/10.1108/EJTD-05-2022-0058>

Cho, Y., Reio, T. G., Callahan, J., Storberg-Walker, J., & Wang, J. (2022). Editorial: Celebrating Human Resource Development Review's 20 years of growth. *Human Resource Development Review*, 21(1), 3-14. <https://doi.org/10.1177/15344843211070745>

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Wang, G. G., Doty, D. H., & Yang, S. (2022). Re-examining the history of human resource development policy in China: From local Indigenous phenomena to global human resource development knowledge. *Advances in Developing Human Resources*, 24(1), 26-48. <https://doi.org/10.1177/15234223211054457>

POSTER PRESENTATIONS

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Holt, P., & McWhorter, R. R. (2022, April 19-21). Student outcomes of eservice-learning during the Covid-19 pandemic [Poster presentation]. AHRD International Research Conference in the Americas.

Noblin, A., Norman, J. F., Legate, A., Sears, S., Aiken, L. E., & Roberts, P. B. (2022, April19-21). Lessons learned during the COVID-19 pandemic: Through the lens of crisis management theory [Poster presentation]. AHRD International Research Conference in the Americas.

PRESENTATIONS

Cho, Y., & You, Ji. (2021, September). Invited talk on the study findings of South Korean highly educated women in Korea and implications for HRD. In The YEF's 10th anniversary ceremony, Yonsei University. YEF at Yonsei University, Korea. <https://uttyler.instructuremedia.com/embed/253205be-2d0a-459c-a023-490d8a3526fa>

Cho, Y., Kim, S., Byrd, M., & Ghosh, R. (2021, November). Meeting with editors. In R. Jacobs (Ed.), 2021 Asian AHRD Conference. AHRD.

Cho, Y., Alagaraja, M., Davies, J., & Yoon, H. J. (2022, February). Workshop: Publishing non-empirical research articles in HRDR: Practical tips [Conference session]. AHRD International Research Conference in the Americas.

Cho, Y., & Egan, T. (2022, June 8-10). The changing landscape of action learning research and practice [Conference session]. University Forum for Human Resource Development (UFHRD), Sheffield, UK.

Human Resource Development (continued)

McWhorter, R. R., Johnson, G. D., Delello, J. A., & Holt, P. (2021, Spring). Virtual Mock Team Interviewing: Preparing Students for Career Success. In Academy of Human Resource Development Virtual Conference.

Park, S.-H., Cho, Y., & Bong, H.-C. (2021, September 21-24). 2021 Marquardt Research Award: Implications of research on action learning for community development in a Korean context [Conference session]. 2021 World Institute for Action Learning (WIAL) Conference. <https://drive.google.com/file/d/1Zf3KpPwNURpRl4t8aiOzdTEtjIMV4i9H/view>

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Management and Marketing

CHAPTERS

Cater, J., Ramadani, V., & Dana, L. (2022). Family business and work spirituality and religion. In Y. Altman, J. Neal & W. Mayrhofer (Eds.), *Workplace spirituality: Making a difference* (pp. 141-154). De Gruyter. <https://doi.org/10.1515/9783110711349-009>

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Al-Shammari, M., & Hammoudeh, M. (2022). CEO social capital and strategic corporate social responsibility of the firm: Bonding and bridging effects. *International Journal of Finance*, 7(1), 1-10. <https://doi.org/10.47941/ijf.769>

Amrouche, N., Pei, Z., & Yan, R. (2022). Mail-in-rebate and coordination strategies for brand competition. *International Journal of Production Economics*, 247(May 2022), 1-13. <https://doi.org/10.1016/j.ijpe.2022.108453>

Camp, K. M., Young, M., & Bushardt, S. C. (2022). A millennial manager skills model for the new remote work environment. *Management Research Review*, 45(5), 635-648. <https://doi.org/10.1108/MRR-01-2021-0076>

Cater, J., Young, M., Al-Shammari, M., & James, K. W. (2021). Drivers of entrepreneurial intentions in the context of Covid-19 pandemic. *Journal of Higher Education Theory and Practice*, 21(11), 124-138.

Cater, J., & Alderson, K. (2022). How faith affects the leadership of U.S. family firm owners. *Journal of Management, Spirituality & Religion*, 19(4), 390-421. <https://doi.org/10.51327/DHP19374>

Cater, J., James, K. W., Kidwell, R. E., Camp, K. M., & Young, M. (2022). The impact of Mexican culture on the human resource management practices of Mexican-American family firms. *International Journal of Entrepreneurship and Small Business*, 45(4), 518-550. <https://doi.org/10.1504/IJESB.2022.122662>

Cater, J., Young, M., Al-Shammari, M., & James, K. W. (2022). Re-exploring entrepreneurial intentions and personality attributes during a pandemic. *Journal of International Education in Business*, 15(2), 311-330. <https://doi.org/10.1108/JIEB-04-2021-0050>

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Wooldridge, B. R., Byun, K.-A., Pei, Z. (Kacie), Hong, J. (Jenny), & Swimberghe, K. R. (2021). Educational risk: Lessons learned during the Covid-19 pandemic. *Marketing Education Review*, 31(4), 340-351. <https://doi.org/10.1080/10528008.2021.1957939>

PRESENTATIONS

Byun, K.-A., Hong, J. (Jenny), & James, K. W. (2022, May 25-27). When does a goal-appeal match affect customer satisfaction? Examining the work and play context [Conference session]. 2022 Academy of Marketing Science Annual Conference, Monterey, CA, United States.

Cater, J. (2021, January 5-8). Conducting qualitative research on family firms [Conference session]. USASBE Annual Conference.

Cater, J., Kidwell, R., & Young, M. (2021, January 5-8). The development of affective successor commitment in family firms [Conference session]. USASBE Annual Conference.

Cater, J., Young, M., Al-Shamari, M., & James, K. (2021, July 30-August 3). Do creativity, risk-taking propensity, and internal locus of control drive entrepreneurial intentions? [Conference session]. Academy of Management 2021 Annual Meeting.



Management and Marketing (continued)

Cater, J., & Young, M. (2022, March 2-4). Successfully mentoring daughters in family firms [Conference session]. Southwest Academy of Management (SWAM) Annual Conference, New Orleans, LA, United States.

Kidwell, R. E., Cater, J., & Young, M. (2022, June 22-24). Navigating treacherous transitions: How successor commitment is developed (and stifled) in family firms [Conference session]. 2022 International Family Enterprise Research Academy (IFERA) Annual Conference, Santander, Spain.

Morgan, T., Young, M., & Bushardt, S. C. (2022, March 2-5). Employee engagement: Implications of job design during a pandemic [Conference session]. Southwest Decision Science Institute 51st Annual Meeting, New Orleans, LA, United States.

Woodward, M. J., Schnarr, K., & Beal, B. D. (2021, July 30-August 3). A how-to guide for taking the case method live [Conference session]. Academy of Management 2021 Annual Meeting.

Young, M., & Cater, J. (2021, September 8-10). Generations and social entrepreneurship [Conference session]. Social Entrepreneurship Summit 2021.

Young, M., Cater, J., & Hua, L. (2022, August 4-8). Racial-minority entrepreneurs as entrepreneurs: Understanding, challenging, background, and personal experiences [Conference Session]. Academy of Management 82nd Annual Conference, Boston, MA, United States.

PROCEEDINGS PUBLICATIONS

Cater, J., Young, M., Al-Shammari, M., & Rocha, R. (2022, Spring). Do personal characteristics and behaviors affect entrepreneurial intentions? Association of Business and Entrepreneurship.

Cater, J., Young, M., & Mulig, E. (2022, Spring). Successfully mentoring daughters in family firms. Southwest Academy of Management. <https://swaom.files.wordpress.com/2022/03/swam-2022-proceedings.pdf>

Young, M., Morgan, T., & Bushardt, S. C. (2022, March). Employee engagement: Implications of job design during a pandemic. Southwest Decision Sciences Institute.

Technology

BOOKS

Miller, M. R., & Miller, R. (2021). Welding licensing exam study guide (2nd ed.). McGraw-Hill.

Miller, M. R., & Miller, R. (2021). Pipefitter's licensing study guide. McGraw-Hill.

JOURNAL PUBLICATIONS

Ali, M. (2021). Computational fluid dynamics modeling and simulation of inhaled submicron bioaerosol particles flow and deposition in the human lung. *International Journal of Modern Engineering*, 22(1), 5-11. <http://hdl.handle.net/10950/3855>

Scott, D. M., & Fazarro, D. E. (2021). The need for integration of smart glasses in policing for the 21st Century: Is the technology there yet? *Technology Interface International Journal*, 22(1), Fall/Winter 2021, 53-58.

PRESENTATIONS

Ali, M. (2021, November 3-5). Computational simulation of the lung doses of air-borne fine and ultrafine particles inhaled by humans at industrial workplaces [Conference session]. 2021 ATMAE Annual Conference. Orlando, FL, United States.

Ali, M., & Johnson, N. M. (2022, March 27-31). In-silico simulation of ultrafine and nanoparticles toxicity burdens in laboratory animals [Conference session]. SOT: Micro & Nanoparticle Safety 61st Annual Meeting and ToxExpo. San Diego, CA, United States.

Jones, D., & Miller, M. R. (2021, November 3-5). The impact of COVID-19 on the undergraduate work ethic: Strategies to reverse this trend [Conference session]. 2021 ATMAE Annual Conference. Orlando, FL, United States.

Lawrence, H., & Miller, M. R. (2021, November 3-5). The ATMAE learning management system: Your user friendly online certification and training center [Conference session]. 2021 ATMAE Annual Conference. Orlando, FL, United States.

REVIEWS

Ali, M. (2021). Exploring engineering technology students' competencies in an introductory computer-aided drafting and design course: A follow-on study [Review of the article "Exploring engineering technology students' competencies in an introductory computer-aided drafting and design course: A follow-on study"]. *Journal of Technology, Management, and Applied Engineering*.

Ali, M. (2021). Implementation of the neural networks for improving the projects' performance of steel structures projects [Review of the article "Implementation of the neural networks for improving the projects' performance of steel structures projects"]. *Journal of Technology, Management, and Applied Engineering*.





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