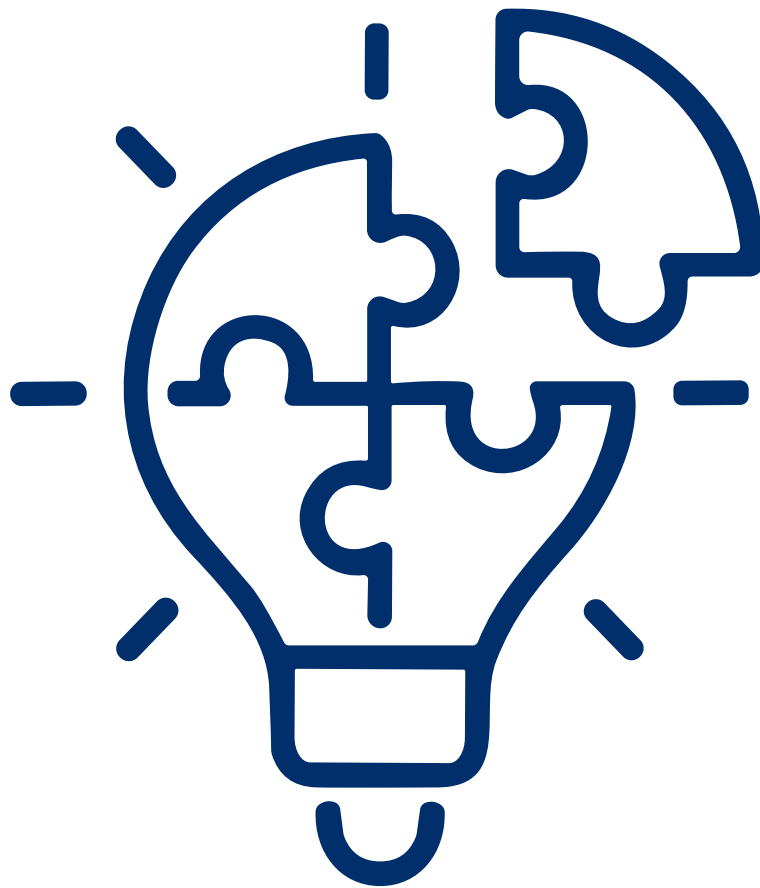


presenting
The 11th Annual

LYCEUM

Student Research Showcase



April 17, 2026
University Center, 3rd Floor



UTTyler[™] **HONORS**
COLLEGE



Dear Friends,

Welcome to the eleventh annual Lyceum Student Research Showcase! Whether you attend the panels in the morning or the poster session in the afternoon, you will have the opportunity to learn about so many things, from the development of psychometric air mixers, to *Trachymyrmex smithii* ants, to the voices of the women who shaped jazz. The students at this year's Lyceum make up a diverse group of scholars, who, alongside their professors, have expanded the boundaries of our knowledge. The creation, expansion, and communication of knowledge lies at the heart of UT Tyler's mission, and today's showcase demonstrates the ability, insight, and work ethic of our entire campus community.

If you are a presenter today, whether a graduate student explaining part of a thesis or an undergraduate making your first foray into formal academic conversation, welcome! Discussing your ideas in public is a significant step in the research process. The name "Lyceum" harkens back to a school in ancient Athens, founded by the philosopher Aristotle. Students at the original Lyceum studied the world around them and reported their findings; in the same way, our community of scholars has asked questions and developed answers, and in presenting today, participates in an exercise that is thousands of years old.

Finally, to our guests, student presenters, faculty & staff judges, and audience, we thank you for your presence here and hope you enjoy all that our students and campus have to offer.

Sincerely,

A handwritten signature in blue ink that reads "Paul D. Streufert". The signature is fluid and cursive, with a long horizontal stroke extending from the end.

Dr. Paul D. Streufert—Dean of the Honors College



Showcase Program

Oral Presentations

9 a.m. - Oral Presentation Sessions

- 9A: Resistance and Political Authority.....UC 3140*
9B: Creating and Adapting Under the Microscope.....UC 3422
9C: Corporate Impacts on Local Economies.....UC 3322

10 a.m. - Oral Presentation Sessions

- 10A: Nonviolence in Oppressive Structures.....UC 3322*
10B: Maintaining Infrastructure Performance.....UC 3140
10C: Bridging the Gap Between College Students and Resources.....UC 3422

11 a.m. - Oral Presentation Sessions

- 11A: Expression Through Music and Writing.....UC 3322*
11B: Exploration of Healthcare Practices.....UC 3422
11C: Technological Impacts on Economic Systems.....UC 3140

Service & Leadership Roundtable

- 11 a.m. - 12 p.m.....UC 2425**

Poster Presentations

1-3 p.m. - Poster Presentations

- Posters 00-55.....UC Ballroom*
Posters 56-103.....3rd Floor Atrium

Awards Ceremony

- 3:15 - 3:45 p.m.....UC Ballroom**

ORAL PRESENTATIONS

Session 9A: Resistance and Political Authority.

9 a.m., UC 3140

Nixon Gorka

Undergraduate Student

Mentor: Dr. Bob Sterken

Resistance and Remembrance: World War II Intelligence Activities in the Netherlands

Brice Everett Wallace

Undergraduate Student

Mentor: Dr. Bob Sterken

Genesis of East Germany

Claire Tennery

Graduate Student

Mentor: Dr. Amentahru Wahrab

Christian Nationalism and Perceptions of Legitimacy in the United States

Session 9B: Creating and Adapting Under the Microscope

9 a.m., UC 3422

Jesda Duong

Undergraduate Student

Mentor: Dr. Shih-Feng Chou

In-vitro dual drug releases from multilayer PVA/PEO films for topical drug delivery applications

Tariq Alkum

Graduate Student

Mentor: Dr. Shih-Feng Chou

Formulation of PCL Microparticles for Drug Delivery Applications

Kingsley Kwaku Amoateng

Graduate Student

Mentor: Dr. Wei-Chin Ho

Adaptation in Acidic Environments Potentiates Pathogenicity in Bacteria

Joshua Meadows

Undergraduate Student

Mentor: Dr. Shuhao Liu

Superhydrophobic and self cleaning coating on Titanium metal plates

ORAL PRESENTATIONS

Session 9C: Corporate Impacts on Local Economies

9 a.m., UC 3322

Maria Sierra-Soto

Graduate Student

Mentor: Dr. Amentahru Wahrab

Seeds of underdevelopment: Plantation economies in Latin America

Jordi Garcia Portell

Undergraduate Student

Mentor: Prof. Susan Doty

The Olympic Dream or Economic Nightmare: The Hidden Price of Olympic Glory

Pie-René N. Ikota

Graduate Student

Mentor: Dr. Amentahru Wahrab

Contracting Dependency: Post-Colonial Agreements and Managed Sovereignty in the Democratic Republic of the Congo

Session 10A: Nonviolence in Oppressive Structures

10 a.m., UC 3322

Asa Clark

Undergraduate Student

Mentor: Dr. Amentahru Wahrab

Truth and Love: Guiding Philosophies of Nonviolent Theories

Kelli Hefner

Graduate Student

Mentor: Dr. Amentahru Wahrab

Social Movements Under Genocide

ORAL PRESENTATIONS

Session 10B: Maintaining Infrastructure Performance

10 a.m., UC 3140

Tanvir Ahmed

Graduate Student

Mentor: Dr. Mayzan Isied

Machine Learning-Driven Pavement Management System Framework for Bleeding Severity Classification Using LTPP Data

Aditya Chowdhury

Graduate Student

Mentor: Dr. Mayzan Isied

Investigation of the Mechanical Performance of Hot Mix Asphalt Modified with Untreated Rice Straw Fibers

Session 10C: Bridging the Gap Between College Students and Resources

10 a.m., UC 3422

Madison Wilson

Undergraduate Student

Mentor: Dr. Lauren Kirby

Artificial Intelligence and Creativity in College Students

Laura McInnis

Undergraduate Student

Mentor: Dr. Miriam Rowntree

Better Tutor-Client Communication: Bringing Awareness to the Different Intrinsic Skill Sets Between STEM and Humanities

Tammie Petersen, MSN, RNC-OB, ACSM-CPT, EIM

Graduate Student

Mentor: Dr. Christine Gipson

Barriers to Participating in Physical Activity among College Students: A Systematic Review

ORAL PRESENTATIONS

Session 11A: Expression Through Music and Writing

11 a.m., UC 3322

Aracely Perez-Gonzalez

Undergraduate Student

Mentor: Dr. Sarah Roberts

Women's voices that shaped jazz: from tradition to today

Ajani McKentie

Undergraduate Student

Mentor: Prof. Blake Lile

A Euphonium Recital of Global Proportions: An overview of a degree recital process, my selected program repertoire, and its cohesiveness

Jeremy Nichols

Undergraduate Student

Mentor: Dr. Ann Beebe

The Hour of Lead: An Examination of Grief Following Death in the Poetry of Emily Dickinson

Session 11B: Exploration of Healthcare Practices

11 a.m., UC 3422

Elisha Michael Morgan

Graduate Student

Mentor: Dr. Eric Stocks

The Path to Post-Traumatic Growth: Moral Injury, Core Belief Disruption, and the Role of Meaning Reconstruction in Veteran Populations

Isabel Ohlsen

Undergraduate Student

Mentor: Dr. Amy Hayes

Same Symptoms, Different Treatment? The Role of Client Gender in Treatment Recommendations

Chidinma Obiora and Himani Pandey

Undergraduate Students

Mentor: Dr. Dixie Rose

Caring Through Technology: How Mobile Resources Support Stroke Caregivers

Adamaris Lopez

Undergraduate Student

Mentor: Dr. Kristie Allen

Eating Disorders Through the Lens of Learning and Conditioning

ORAL PRESENTATIONS

Session 11C: Technological Impacts on Economic Systems

11 a.m., UC 3140

Rebecca Wood

Undergraduate Student

Mentor: Dr. Mary Fischer

Designing an AI-Assisted Cash Flow Management Tool for Microenterprises: A Usability-Focused Research Study

Oz Al Amosh

Graduate Student

Mentor: Dr. Amentahru Wahrab

Silicon Suez: AI Hardware Chokepoints and Global Power

Jim Clayton

Graduate Student

Mentor: Dr. Amentahru Wahrab

Lane-Switch Supply Chains and the Diffusion of First-Person Viewer (FPV) Drone Capability

SERVICE & LEADERSHIP ROUNDTABLE

11 a.m., UC 2425 - Talons Foyer

As a part of their engagement in the Honors College, many of our students undertake service and leadership projects related to their respective fields of study or civics interests. These projects are designed and executed by the students under the guidance of an experienced mentor. The roundtable session gives the students the opportunity to share their experience and discuss the effects their projects have had on their own academic and personal growth as well as how they have impacted campus and the wider East Texas community.

Roundtable Presenters

Anna Bertino, Music

Blake Blain, Accounting

Zoria Brookins, Psychology

Tallon Clemmer, Biology

Sid Cleofe, Kinesiology

Blake Congleton, Nursing

Rhealene Cordova, Marketing

Luke Emerson, Management

Monica Herrera, Kinesiology

Sam Murphy, Criminal Justice

Elizabeth Nixon, Psychology

Brian Shine, Accounting

Nelly Silva Segura, Accounting

Cohen Taylor, Business

Jenayah Watson, Accounting

Amber Withers, Kinesiology

POSTER SESSION

Posters 00-9, UC Ballroom

00 - Esther Reifel

Undergraduate Student

Mentor: Dr. Maclovio Cantú IV

Drifting Through the Mindscape [Art Exhibit]

1 - Jad Absy

Undergraduate Student

Mentor: Dr. Jiyong Lee

Novel Hydrophobic Tagging Molecules for Targeted Protein Degradation

2 - Jordan Adams, Louis Trujillo, Jack Scheetz, Jonathan McMullen, & Isaiah Glanton

Undergraduate Students

Mentor: Dr. Shih-Feng Chou

Design of a Tilting Dump Bed for a Golf Cart

3 - Rachel Afulike

Undergraduate Student

Mentor: Dr. Fernando Resende

Thermal Conversion of Cotton Gin Byproducts (CGB) into Liquid Fuels and High Value Chemicals

4 - Damola Agboola

Graduate Student

Mentor: Dr. Carla Lacerda

Evaluating Human-to-Mouse Deep Transfer Learning for Automated Echocardiographic View Classification

5 - Tanvir Ahmed

Graduate Student

Mentor: Dr. Mayzan Isied

Mechanistic Evaluation of HMA Modified with Sugarcane Bagasse Fibers

6 - Amal Al-Shweiky

Graduate Student

Mentor: Dr. Ayman Hamouda

Effect of Cannabidiol (CBD) Exposure on Lung Epithelial Cells

7 - Kwadwo Appiah-Poku

Graduate Student

Mentor: Dr. Ayman Hamouda

Assessment of $(\alpha 4)\beta 2$ nicotinic acetylcholine receptor positive allosteric modulators in a 6-OHDA Zebrafish Model

8 - Mohammed Barakat, Toni Brannan, Nathan Hampton, Missael Olvera, & Mattheson Wright

Undergraduate Students

Mentor: Dr. Andrew Robbins

NICU Device for Simulating Parental Presence

9 - Ethan Benson, Zachary Davidson, Rigoberto Chavez, Nathan Huckabay, & Ethan Drury

Undergraduate Students

Mentor: Dr. Shih-Feng Chou

SCOOP-E

POSTER SESSION

Posters 10-19, UC Ballroom

10 - Caden Black

Undergraduate Student

Mentor: Dr. Jiyong Lee

Peptoid-conjugated virus-like particles as a delivery vehicle for triple-negative breast cancer treatment

11 - Emalea Boatman & Zoey Venrick

Graduate Students

Mentor: Dr. Sean C. Butler

Design and Use of Sterically Hindered Dioxiranes for Epoxidation Studies

12 - Nathan Boyett

Undergraduate Student

Mentor: Dr. Narayanan Subramanian

3D Mapping

13 - Brooklyn Bragg

Undergraduate Student

Mentor: Dr. Tanya Brown

Beyond Antibiotics: Evaluating Probiotics for Disease Prevention in the Coral Model *Exaiptasia diaphana*

14 - Hunter Brown

Undergraduate Student

Mentor: Dr. Madeline Dawsey

The Transcendence of π , e , and the Mystery of γ

15 - William Titus Campbell

Undergraduate Student

Mentor: Mr. Alan Lizarraga

Searching for Correlations: Snake Health and the Presence of *Ophidiomyces ophidiicola*

16 - Emma Carter

Graduate Student

Mentor: Dr. Eric Stocks

Cognitive Training as a Rehabilitation Strategy for Increasing Neuroplasticity and Executive Functioning Following a TBI

17 - Coleman Castagno

TJC Honors Student

Mentor: Dr. Andrea Hathcote

Unifying Life Fulfillment: How People Define a Well Lived Life

18 - Aditya Chowdhury

Graduate Student

Mentor: Dr. Mayzan Isied

Ensemble Tree-Based Classification of Transverse Crack Severity and Extent in Asphalt Pavements

19 - Emelia Conneen

Undergraduate Student

Mentor: Dr. Sean Butler

Synthesis and Classification of Differing Ester Substrates for Hydrolysis Kinetics: Bridging Organic and Physical Chemistry

POSTER SESSION

Posters 20-29, UC Ballroom

20 - Stephen Daniels & Alexander Vargas

Undergraduate Students

Mentor: Dr. Ivan Ramirez Zuniga

Mathematical Models for Bacterial Infection and Coinfection

21 - Jace Douglas

Undergraduate Student

Mentor: Dr. Matthew Greenwold

Utilization of an eDNA ddPCR assay to identify two SGCN mayfly species

22 - Megan Du Preez

Undergraduate Student

Mentor: Dr. Sherry Gong (Texas A&M)

Relationships between common slice obstructions and the Eisermann ribbon obstruction (knot theory)

23 - Sorrel Estrada

Undergraduate Student

Mentor: Dr. Jon Seal

One Way to Grow a Garden: The Single Strategy of *Trachymyrmex smithii* Ant Fungal Farming

24 - Abdullah Faisal

Graduate Student

Mentor: Dr. Mayzan Isied

Predicting FWD Deflection Basins Using Sequential Artificial Neural Networks

25 - Angelina Florville & Dante Glover

Undergraduate Students

Mentor: Dr. Sean C. Butler

Synthesis of Structural Variants of the Lipopeptide Dragonamide E

26 - Camden Fontenot

Undergraduate Student

Mentor: Prof. Ashley Dalby

Kinesiology vs. Psychology: knowledge and perceptions about occupational therapy by undergraduate major

27 - Pricila Garcia

Undergraduate Student

Mentor: Dr. Wei-Chin Ho

Osmotic Pressure and Microbial Growth in *Escherichia coli*

28 - Trinity Garza

Graduate Student

Mentor: Dr. Adam McGuire

Advancing PTSD Prevention in Military Populations: Challenges, Gaps, and Emerging Approaches

29 - Trayvonn Green

Graduate Student

Mentor: Dr. Ramona Grad

Multisystemic Therapy as an Evidence-Based Intervention for Reducing Juvenile Recidivism

POSTER SESSION

Posters 30-39, UC Ballroom

30 - Nadia Hartnauer, Emily Low, Sydney Thompson, & Esther Gurau

Graduate Students

Mentor: Dr. Drew A. Curtis

Pathological Lying: Examining Forensic Aspects

31 - Sydney Thompson, Esther Gurau, Emily Low, Nadia Hartnauer, Brittney Holton, & Kate Langley

Graduate Students

Mentor: Dr. Drew A. Curtis

Liars' Remorse: Examining pathological lying and normative lying

32 - Zoye Henry

Graduate Student

Mentor: Dr. Eric Stocks

Traumatic Brain Injury Increasing Executive Dysfunction and Cognitive Impairments in Children

33 - D Blake Hopkins

Graduate Student

Mentor: Dr. William Blair

On The Gonality of Kneser Graphs

34 - Benjamin Houston

Undergraduate Student

Mentor: Dr. Robert Sterken

Have college extremist ideologies on governance converged?

35 - Kaden Hurley & Cody Sims

Undergraduate Students

Mentor: Dr. Chung Hyun Goh

Psyche Mission Landing System

36 - Maham Hussain

Undergraduate Student

Mentor: Dr. Chowdhury S. Abdullah

Ponatinib Activates Bulk Autophagy but Causes Impaired Selective Mitophagy in Cardiomyocytes

37 - Benita Ibabaza, Joseph Piper, Andres Martinez, Martha Laremark, & Matthew Vaughn

Undergraduate Students

Mentor: Dr. Tahsin Khajah

Psychometric Air Mixer

38 - Brandie Jackson

Undergraduate Student

Mentor: Prof. Ashley Dalby

Perception and knowledge of chiropractic care among university undergraduate students: correcting misconceptions

39 - Anavya Jernigan

Graduate Student

Mentor: Dr. Santosh Aryal

Effect of Surface Charge and Drug-Loading Ratios on Liposomal Drug Delivery

POSTER SESSION

Posters 40-49, UC Ballroom

40 - Imran Ahmed Khan

Graduate Student

Mentor: Dr. Mena Souliman

Machine Learning-Based Prediction of Edge Crack in Flexible Pavements Using ANN: Evidence from the Long-Term Pavement Performance Database

41 - Imran Ahmed Khan

Graduate Student

Mentor: Dr. Mayzan Isied

Enhancing Pavement Management Decisions Through Machine Learning-Based Classification of Block Cracking

42 - Amelia Elske Kines

Undergraduate Student

Mentor: Dr. Christopher Thomas

Timed-Testing and Anxiety in College Students

43 - Kate Langley

Graduate Student

Mentor: Dr. Drew A. Curtis

Pathological Lying: Impaired Functioning Reports from Self and Others

44 - Nadim Mahmud

Graduate Student

Mentor: Dr. Shuhao Liu

Synergistic Engineering of Superhydrophobic and Antimicrobial Properties in Cotton Knit Fabric via CPC/SiO₂-PDMS Dip Coating

45 - Frank Maldonado, Dario Rodriguez, Marcos Trujillo, Jacob Carr, & Kylee Freeman

Undergraduate Students

Mentor: Dr. Tahsin Khajah

Design and Development of an Automated HVAC Audit Station

46 - Ivan Mendez

Undergraduate Student

Mentor: Dr. Wei-Chin Ho

The Effects of Historical Adaptation of Microbes in New Stressful Environments

47 - Flor Mendez

TJC Honors Student

Mentor: Dr. Andrea Hathcote

Is Global Peace Possible? A Literature Review of Solutions to Reduce Violence

48 - Rashad Mims

Undergraduate Student

Mentor: Dr. Mayzan Isied

Integrating Pavement Performance and Crash Data to Identify Hydroplaning Risk Factors in Asphalt Pavements

49 - Rashad Mims

Undergraduate Student

Mentor: Dr. Mena Souliman

Utilizing Pavement Performance Data for Predictive Modeling of Pothole Formation

POSTER SESSION

Posters 50-59, UC Ballroom & 3rd Floor

50 - Cambry G. Mitchell

Undergraduate Student

Mentor: Prof. Jessica Coleman

Evaluating Probability Thresholds for Acoustic Detection of Golden-cheeked Warblers

51 - Enock Mounde

Graduate Student

Mentors: Dr. Mayzan Isied
& Dr. Mena Souliman

Adapting Asphalt Binder Selection to Climate Change: Mid-Century PG Grade Projections for Kenya

52 - Enock Mounde

Graduate Student

Mentors: Dr. Mayzan Isied
& Dr. Mena Souliman

Evaluating the Effect of Pavement Family on Deterioration Predictions

53 - Emery Nuner, Telicia Appleton, & Ibrahim Burghul

Undergraduate Students

Mentor: Dr. Woohyoung Jeon

Age and Cognitive Load Alter Joint Work Distribution and Postural Stability During Single Limb Support

54 - Basel Omar

Graduate Student

Mentor: Dr. Mayzan Isied

Predicting Raveling Onset in Porous Asphalt Pavements Using Artificial Neural Networks Based on LTPP Data

55 - Basel Omar

Graduate Student

Mentor: Dr. Mena Souliman

A Data-Driven ANN Model for Forecasting Longitudinal Cracking in Flexible Pavement Systems

Location: UC 3rd Floor

56 - Emma Owulebaja

Undergraduate Student

Mentor: Dr. Brent Bill

Investigating AHDC1 Loss and Retinal Development in a Zebrafish Model of Xia-Gibbs Syndrome

57 - Abigail Palin

Undergraduate Student

Mentor: Dr. Wingyan Chung

The Effect of Overall Pay Dispersion on Organizational Performance and the Moderation of Individual Incentives

58 - Saakhi Patel

Undergraduate Student

Mentor: Dr. Aleksandra Cregler

Exploring Social Interaction and Connection Among Women Aged 65+

59 - Colin Peek, Adam Smith, Aaron Ludovico, Lauren Sefarin-Castillo, & Javier Avila

Undergraduate Students

Mentor: Mr. Edward Farina

Automated Press

POSTER SESSION

Posters 60-69, UC 3rd Floor

60 - Neida Perez & Perla Guzman

Undergraduate Students

Mentor: Dr. Riqing Yu

Growth Responses of Three Sulfate Reducing Bacteria to Fluoroquinolone Exposure Under Anaerobic Conditions

61 - Tammie Petersen, MSN, RNC-OB, ACSM-CPT, EIM

Graduate Student

Mentor: Dr. Christine Gipson

Overwhelm: A Concept Analysis

62 - Sarah Provencher

Undergraduate Student

Mentor: Dr. Dustin Patterson

Tunable Enzyme Encapsulation in HK97 Virus-Like Particles to Model Macromolecular Crowding

63 - Maria Quintero

Graduate Student

Mentor: Dr. Dustin Patterson

Investigating the Attachment of Peptide Tags to the Exterior of the HK97 Virus-Like Particle for Site-Specific Cell Targeting: In Vivo Evaluation in Zebrafish

64 - Gabriel Richie

Undergraduate Student

Mentor: Dr. Mayzan Isied

Permeable Pavement Performance Under East Texas Rainfall

65 - Jason Rivera

Undergraduate Student

Mentor: Dr. Ahmad Jibreen

University of Texas at Tyler Pedestrian Bridge

66 - Sandra Rodriguez

Graduate Student

Mentor: Dr. Chowdhury S. Abdullah

Molecular Roles of DISC1 in Mitochondrial Dynamics and Functions in Cardiomyocytes

67 - Maria Rodriguez Buendia

Undergraduate Student

Mentor: Dr. Meryem Saygili

How does weather affect marathon times?

68 - Fernando Rosales

Undergraduate Student

Mentor: Dr. Eric Stocks

Fur, Feeds, Frames, and First Impressions: Social Media and Attitudes Towards Furrries

69 - Emersen Ross

Graduate Student

Mentor: Dr. Eric Stocks

Moral Injury, Social Connectedness, and Resiliency: A Review

POSTER SESSION

Posters 70-79, UC 3rd Floor

70 - Aieyan Saeed

Graduate Student

Mentor: Dr. Olga Berkout

Facing Loneliness and Building Connection

71 - Lindsey Salgado

TJC Honors Student

Mentor: Dr. Andrea Hathcote

Scrolling Through Social Media: Screen Time in One's Life

72 - Jessica Samuel

Undergraduate Student

Mentor: Dr. Lauren Kirby

Investigating the Relationship Between Internet Use Habits and Patterns of AI Engagement in American College Students

73 - Cameron Sanchez

TJC Honors Student

Mentor: Dr. Andrea Hathcote

How Are East Texas Waters Changing and Water Behind?

74 - Israel Joshua Santhosh

Undergraduate Student

Mentor: Dr. Santosh Aryal

Cellular and Tumor uptake kinetics of nanoparticles

75 - Aubrey Sheffield

Undergraduate Student

Mentor: Dr. Lauren A.J. Kirby

Cognitive Stimulation Techniques as a Preventive Measure for Vascular Dementia

76 - Kriti Sigdel

Graduate Student

Mentor: Dr. Hua Yu

Experimental Investigation of Cement-Stabilized Soil Modified with Biochar and Seawater

77 - Kriti Sigdel

Graduate Student

Mentor: Dr. Mayzan Isied

Rheological and Aging Behavior of Rice Straw Fiber-Modified Asphalt Binder

78 - Tasneem Smadi

TJC Honors Student

Mentor: Dr. Andrea Hathcote

Placental defense strategies as a model for preventing autoimmune organ damage in Type 1 Diabetes

79 - Alexander Speiser

Undergraduate Student

Mentor: Dr. Roger Lirely

Risk, Venue, and Victory: Transforming Federal Tax Litigation into a Strategic Probability Model

POSTER SESSION

Posters 80-89, UC 3rd Floor

80 - Sarah Stokke

Undergraduate Student

Mentor: Dr. Katie Stone

Paraesophageal Hernia Complicated by Gastric Volvulus Mimicking Acute Inferior STEMI

81 - Megan Swanberg

Undergraduate Student

Mentor: Dr. Jodi Bullard

Bridging Communication: American Sign Language and Autism Resources for School Nurses Supporting Non-Speaking Students

82 - Madyson Tate

Graduate Student

Mentor: Dr. Mena Souliman

Developing a Model to Predict Transverse Cracking in Flexible Pavement using Artificial Neural Network

83 - Madyson Tate

Graduate Student

Mentors: Dr. Mayzan Isied
& Dr. Mena Souliman

From Roughness to Risk: Quantifying the Safety Implications of Pavement Condition for Maintenance Decision-Making

84 - Isabella Trimble

Undergraduate Student

Mentor: Dr. Gregory Bock

Religious Adherence in the United States: Are Americans Leaving Religion Behind?

85 - Alisha Upreti

Undergraduate Student

Mentor: Dr. Santosh Aryal

PDX-derived extracellular vesicles reengineered with liposomes for tumor drug delivery

86 - Blanca L. Vergara

Undergraduate Student

Mentor: Dr. Lauren A.J. Kirby

Dimensional Paranoia and Reasoning Under Cognitive Load in a Normative College Student Sample: An Experimental Study

87 - Avnoor Verma

Undergraduate Student

Mentor: Dr. Wei-Chin Ho

Effects of Sulfate Salts in Microbial Growth

88 - KellyAnn Walker

Undergraduate Student

Mentor: Prof. Kristie Allen

How animal relationships alter the affects of loneliness, depression, and lifespan

89 - Samantha Walls

Undergraduate Student

Mentor: Dr. Ann Beebe

Helen's Many Faces: How Retelling Reflect the Author

POSTER SESSION

Posters 90-99, UC 3rd Floor

90 - Carel Wessel

Undergraduate Student

Mentor: Prof. Susan Doty

Should Undergraduate Students Prioritize Detailed Expense Tracking

91 - Leah Westenmeyer

TJC Honors Student

Mentor: Dr. Andrea Hathcote

Intertwined in Love: A Display of Crochet Pieces Symbolizing an Expression of Love

92 - Cash Wilton

Undergraduate Student

Mentor: Prof. Ashley Dalby

Effects of C-Mill Balance Training on Single-leg Stability in College Students

93 - Jayla Wroten

Undergraduate Student

Mentor: Dr. Andrea Hathcote

Evaluating the Impact of Honors Learning Frameworks on Research, Self-Efficacy, and Knowledge

94 - Samantha Allen

Graduate Student

Mentor: Dr. Tina Melamed

Evaluation of Pragmatic Language in Preschool-Age Children with Autism

95 - Emma Frick

Graduate Student

Mentor: Dr. Amy Louise Schwarz

What do Student Clinicians Need to Know? Medication and Environmental Factors that Affect Pediatric Patients with Multiple Diagnoses

96 - Emily Garcia

Graduate Student

Mentor: Dr. Amy Louise Schwarz

Self Assessment vs. Instrumental Swallow Outcomes Post Glossectomy in Head and Neck Survivor

97 - Evelyn Hartline

Graduate Student

Mentor: Dr. Tina Melamed

Two Perspectives, One Tool: Parent and Clinician Completion of the Communication Matrix

98 - Holly James

Graduate Student

Mentor: Dr. Amy Louise Schwarz

Dysphagia secondary to Dementia: How Should SLPs Treat it?

99 - Christiana Joseph

Graduate Student

Mentor: Dr. Amy Louise Schwarz

Distinguishing Trauma-Related Social Communication Deficits from ASD

POSTER SESSION

Posters 100-103, UC 3rd Floor

100 - Maria Kellermann Jimenez

Graduate Student

Mentor: Dr. Tina Melamed

Assessing the Evolving Communicative Desires of People with Primary Progressive Aphasia

101 - Yasandra Preciado

Graduate Student

Mentor: Dr. Tina Melamed

The Effect of Quality-of-Life Questionnaires on Patient-Centered Goal Writing in Alzheimer's Disease

102 - Ava Rockey

Graduate Student

Mentor: Dr. Amy Louise Schwarz

Diagnostic accuracy in neurodegenerative disease: Classifying symptom profiles

103 - Marytza Villarreal

Graduate Student

Mentor: Dr. Tina Melamed

Considering linguistic proficiency during assessment of mild cognitive impairment

Vote for Crowd Favorite:



Awards Ceremony immediately to follow poster session in the UC Ballroom

ACKNOWLEDGEMENTS



Thank you for attending the 11th Annual Lyceum Student Research Showcase! We hope you leave today enriched by your experience and inspired to learn and discover more about the world around us. We'd like to take a moment to thank our sponsors, judges, moderators, mentors and, most of all, our students! This event could not happen without each and every one of you. We're extremely grateful for your participation, and we look forward to seeing you for the 12th Annual Lyceum in April 2027!

"Educating the mind without educating the heart is no education at all."

- Aristotle



UTTyler HONORS
COLLEGE