



"Search and Re-search"

Presented by The Office of the Provost and Vice President for Academic Affairs, and the Office for the Vice President of Research and Innovation, and the Honors College

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Event Schedule

9:30- 10:45	Oral Presentations of Research: Session 1	Union 333 A, B, C
11:00 - 12:15	Oral Presentations of Research: Session 2	Union 333 A, B, C
12:30 - 1:45	Oral Presentations of Research: Session 3	Union 333 A, B, C
2:00 - 2:45	Check- in for Poster Presentations	Union 314
3:00 - 3:45	Poster Presentations	Union 314
3:45- 4:30	Reception	Union 314

Welcome: Dr. Glênisson de Oliveira, Dean, TAMS and the Honors College Keynote Address: Angelina Miljanic, the Honors College

Special Awards: Dr. James Duban, Associate Dean, TAMS and the Honors College $\,$

Final Prize Giveaway: Anne Green, TAMS and the Honors College



9:30 - 10:45 | Union 333A | Moderated by Dr. Melanie Ecker

Mothers of Color

Wanda Bengtzen, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Joanna Davis-McElligatt, College of Liberal Arts & Social Sciences

Reframing Femininity and Grief: The Rebozo Luto de Aroma

Mercedes Muratalla, College of Visual Arts & Design

Faculty Mentor: Dr. Denise Baxter, College of Visual Arts & Design

The Effect of Boron Addition on Fe43.5Mn34Al15Ni7.5Bx Shape Memory Alloy

Nathan Tran, College of Engineering

Faculty Mentor: Dr. Marcus Young, College of Engineering

9:30 - 10:45 | Union 333B | Moderated by Kayla Canis, M.S.

How does grazing management affect plant communities on North Texas Rangelands?

Jada Martinez, College of Science

Faculty Mentor: Dr. Elinor Lichtenberg, College of Science

Self-Esteem, Social Scenes & Spending Sprees: Materialism Across College Cohorts

Angelina Miljanic, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Calvin Sims, College of Liberal Arts & Social Sciences

The "Grand" in Grandparents: An Examination of Intergenerational Co-Parenting and Its Effects on the Socio-emotional Development of Children and Adolescents

Trinity Ner, College of Education

Faculty Mentor: Dr. Jason Chiang, College of Education

9:30 - 10:45 | Union 333C | Moderated by Dr. Jyoti Shah

Design Thinking for Accessibility: Reimagining Onboarding for Blind and Low-Vision Users with Glidance

Sophia Carswell, College of Visual Arts & Design

Faculty Mentor: Professor Cassini Nazir, College of Visual Arts & Design

Evaluation and examination of the structure of criminal governance in MedellĀn, Colombia

Thomas Metcalf, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. James Meernik, College of Liberal Arts & Social Sciences

Assessment of $17\hat{l}^2$ -Estradiol by way of Mass Spectrometry Based Proteomics in Model Organism Planaria Dugesia Dorotocephala

Rithika Raghavan, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Vladimir Shulaev, College of Science

11:00 - 12:15 | Union 333A | Moderated by Dr. Anondah Saide

Assessing the Impact of Textile Waste Initiatives: A Qualitative Analysis of Community Engagement and Financial Relief at UNT

Madeline Blackburn, College of Merchandising, Hospitality & Tourism

Faculty Mentor: Dr. Iva Jestratijevic, College of Merchandising, Hospitality & Tourism

Investigating mTOR's Role in Oligodendrocyte Differentiation

Lynn Farhat, College of Science

Faculty Mentor: Dr. Jannon Fuchs, College of Science

The Impact of Family Structure on Adolescent Self-Esteem: The Moderating Role of Familism in Immigrant Families

Yogita Sethi, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Jason Chiang, College of Education

11:00 - 12:15 | Union 333B | Moderated by Dr. Amy Anderson

Macro-influencers Vs. Micro-influencers: Impact of Changing Consumer Behavior

Alicia Langlais, College of Merchandising, Hospitality & Tourism

Faculty Mentor: Dr. Sanjukta Pookulangara, College of Merchandising, Hospitality & Tourism

The Atmospheric Chemistry of Fluoroacetonitrile and the Characterization of the Major Product, Cyanoformyl Fluoride

Trang Nguyen, College of Science

Faculty Mentor: Dr. Paul Marshall, College of Science

Everything Is Gone: Effects of Digital Precarity on an Online Community of Drug Users.

Leonardo Vargas, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Jara Carrington, College of Liberal Arts & Social Sciences

11:00- 12:15 | Union 333C | Moderated by Dr. Kimi King

Exploring Complex Base Number Expansions and Fractals

Miguel Gonzalez-Carriedo, College of Science

Faculty Mentor: Dr. Kiko Kawamura, College of Science

Gender-Based Values and Environmental Priorities in Colombia

Kathryn Krueger, College of Science & College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Kimi King, College of Liberal Arts & Social Sciences

From Goddess to Ghost: Sexual Violence and Colonial Legacies, Regional Disparities, and the Battle for Justice

Ridhi Panchakarla, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Kimi King, College of Liberal Arts & Social Sciences

Interferometric Autocorrelation

Mari Salinas, College of Science

Faculty Mentor: Dr. Jens Neu, College of Science

12:30-1:45 | Union 333A | Moderated by Dr. Olga Velikanova

Anticorrosive Strategies for Cu-Al Wire-Bonded Devices in Extreme Automotive Applications

Pavan Ahluwalia, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Oliver Chyan, College of Science

Necessity Has No Law: Soviet Passportization in the 1930s

Alex Chanaa, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Olga Velikanova, College of Liberal Arts & Social Sciences

Effects of Acclimation to UV-B on Daphnia magna morphology and PAH Photo-Induced Toxicity Exposures

Kymie Creswell, College of Science

Faculty Mentor: Dr. Brianne Soulen, College of Science

12:30-1:45 | Union 333B | Moderated by Dr. Jannon Fuchs

Embedded in the Head

Sabriena Duvall, College of Visual Arts & Design

Faculty Mentor: Dr. Jennifer Way, College of Visual Arts & Design

Role of Primary Cilia in the Fate Determination of Oligodendrocyte Precursor Cells

Surie Guo, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Jannon Fuchs, College of Science

Comparisons and Application of Machine Learning Algorithms

Dominick Ohara, College of Science

Faculty Mentor: Dr. Yanyan He, College of Science

12:30- 1:45 | Union 333C | Moderated by Dr. Jaime Jimenez

SPARCS: Spectral Processing and Analysis for Recognition of Chemical Species Machine learning of optical spectra for identification of diverse unknown chemical species

Aniruth Ananthanyaran, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Guru Khalsa, College of Science

Motivation for Prescribed Burning and Wildfire Mitigation in Texas

Tyler Cunningham, College of Health & Public Service

Faculty Mentor: Dr. Ronald Schumann, College of Health & Public Service

The Application of a Closed-Loop Textile Waste System to Displace Negative Social-Environmental Impacts in the Case of UNT's Zero Waste Textile Initiative

Rosalyn Zuniga, College of Merchandising, Hospitality & Tourism

Faculty Mentor: Dr. Iva Jestratijevic, College of Merchandising, Hospitality & Tourism



College of Business

Poster Lot # 1

Support Types

Linh Tran, College of Liberal Arts & Social Sciences Faculty Mentor: Dr. Thuy Nguyen, College of Business

Poster Lot # 2

Understanding Trustworthiness Levels in Generation Z of Electronic Commerce **Saanvi Veera Bomma**, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Gurpreet Dhillon, College of Business

College of Education

Poster Lot # 3

Demystifying The Page: An Examination of Fantastical Imagery and Educational Messages in Children's Death Literature

Allie Claville, College of Education

Faculty Mentor: Dr. Anondah Saide, College of Education

Poster Lot #4

"To Eminently New Directions" (TEND)

Zoe Crider, College of Liberal Arts & Social Sciences Faculty Mentor: Dr. Anondah Saide, College of Education

Poster Lot # 5

Core vs. Capital Mentoring in First-Generation College Students

Justin Dick, College of Education

Faculty Mentor: Dr. Amy Anderson, College of Education

Poster Lot # 6

Comparing the Detectability of Parent Screening Tools to Identify Motor Deficits in Preschool Age Children: Ages and Stages Questionnaire Vs. the Little Developmental Coordination Disorder Questionnaire

Taelyn Echols, College of Education

Faculty Mentor: Dr. Jerraco Johnson, College of Education

College of Education (cont.)

Poster Lot # 7

Gender Differences in Performance of the Movement Assessment Battery in Preschool-age Children

Addison Harmon, G. Brint Ryan College of Business

Faculty Mentor: Dr. Jerraco Johnson, College of Education

Poster Lot #8

Mentoring among first generation college students: Descriptive statistics and the role of gender

Ashyrian Johnson, College of Education

Faculty Mentor: Dr. Amy Anderson, College of Education

Poster Lot # 9

Beyond the Veil: Understanding Developmentally Appropriate Death Concepts in Children's Literature

Liliana Mlcak, College of Education

Faculty Mentor: Dr. Anondah Saide, College of Education

Poster Lot # 10

Metabolic Response to Arm Ischemia-Reperfusion Injury

Ayrion Moody, College of Education

Faculty Mentor: Dr. Justin Sprick, College of Education

Poster Lot # 11

The relationship between infancy motor development and risk of DCD in preschool-age children

Mesoma Onejeme, College of Education

Faculty Mentor: Dr. Jerraco Johnson, College of Education

Poster Lot # 12

Validating Methods of Genomic DNA Isolation

Anyla Paschall, College of Science

Faculty Mentor: Dr. Brian McFarlin, College of Education

College of Education (cont.)

Poster Lot # 13

"If bro is cute enough, would you?": Mostly Straight Men and the Intersection of Masculinity, Social Perception, and Identity Development

Phong Pham, College of Liberal Arts & Social Sciences

Faculty Mentor: Professor Payton Birlew, College of Education

Poster Lot # 14

Parent-Involved Behavior Intervention Strategies for Children with ADHD: A Systematic Review and Analysis of Suitability for Implementation in Single-Parent Households

Carly Salmi, College of Liberal Arts & Social Sciences

Faculty Mentor: Professor Payton Birlew, College of Education

Poster Lot # 15

A qualitative exploration of emerging adults' self-care methods to combat loneliness

Aliyah Schwarz, College of Education

Faculty Mentor: Dr. Amy Anderson, College of Education

College of Engineering

Poster Lot # 16

AI-Driven Risk Stratification in Ischemic Stroke Patients: Identifying Key Predictors for Recurrence and Complications

Areeb Ashraf, College of Engineering

Faculty Mentor: Dr. Satya Parupudi, College of Engineering

Poster Lot # 17

Objective Classification of Hemiplegic Cerebral Palsy: Objective Cluster Analysis of Whole Time Series Gait Data

Lakhisha Balaji, Texas Academy of Mathematics $\ensuremath{\mathcal{C}}$ Science

Faculty Mentor: Dr. Mark Albert, College of Engineering

College of Engineering (cont.)

Poster Lot # 18

Optimizing Cardiac Differentiation for Disease Modeling and Drug Testing

Celine Chacon, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Huaxiao Yang, College of Engineering

Poster Lot # 19

Draw Signature in Air

Sahil Chhotulal Chaudhari, College of Engineering

Faculty Mentor: Professor Amar Maharjan, College of Engineering

Poster Lot # 20

Using Transcriptional Regulators to Genetically Engineer E.Coli Nissle 1917 For Heavy Metal Detection

Audrey Chen, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Clement Chan, College of Engineering

Poster Lot # 21

SWAY

Chaitanya Chunduri, College of Engineering

Faculty Mentor: Dr. Mark Albert, College of Engineering

Poster Lot # 22

Clustering Single Cells with Graph Contrastive Learning

Sarthak Engala, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Serdar Bozdag, College of Engineering

Poster Lot # 23

Self Propelled Soft Robot for Navigating Confined Spaces

Xinyu He, Texas Academy of Mathematics & Science

Faculty Mentor: Rashmi Wijesundara Mudiyanselage, College of Engineering

Poster Lot # 24

A Novel Stem Cell Bioreactor Design Utilizing Mechanical Stretching and Extracellular Matrix Mimicry

Benjamin Hu, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Yong Yang, College of Engineering

College of Engineering (cont.)

Poster Lot # 25

Using Head-Driven Control to Navigate Unmapped Areas with Continuum Robots

Aditya Jain, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Amir Jafari, College of Engineering

Poster Lot # 26

CP-Phenotyping

Vishal Jonnalagadda, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Mark Albert, College of Engineering

Poster Lot # 27

Effect of Elevated Pressure on Astrocytes on an Optic Nerve Head chip

Nelly Juarez Carrillo, College of Engineering

Faculty Mentor: Dr. Yong Yang, College of Engineering

Poster Lot # 28

Immune-Mediated Killing of Tumor Cells Under Static Conditions on a Pillar Plate Platform

Brian Koo, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Moo-Yeal Lee, College of Engineering

Poster Lot # 29

Enzyme-Induced Self-Assembly of Peptides for Treatment Against Drug-Resistant Triple-Negative Breast Cancer

Ananya Kumar, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Neda Habibi, College of Engineering

Poster Lot # 30

Unititled

Aakarshan Kumar, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Saraju Mohanty, College of Engineering

Poster Lot # 31

Using reflection strategies to improve mathematical reasoning in large language models

Gengwen Li, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Yunhe Feng, College of Engineering

College of Engineering (cont.)

Poster Lot #32

Developing a Dual-Stage Vision Transformer Model for Lung Disease Classification

Anirudh Mazumder, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Saraju Mohanty, College of Engineering

Poster Lot # 33

Fabrication of Patient-Specific Aortic Models

Nagavenkat Modugula, Texas Academy of Mathematics $\mathcal E$ Science

Faculty Mentor: Dr. Fateme Esmailie, College of Engineering

Poster Lot # 34

Coronary Heights as an Indicator for Post Transcatheter Aortic Valve Replacement Thrombosis Risk

MacKenzie Moore, College of Engineering

Faculty Mentor: Dr. Fateme Esmailie, College of Engineering

Poster Lot # 35

Development of Self-Assembled Hydrogels For Cell Encapsulation

Rajiv Morthala, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Neda Habibi, College of Engineering

Poster Lot # 36

Differentiating Human Pluripotent Stem Cells Into Cardiomyocytes For Modeling

Hypertrophic Cardiomyopathy Through Applied Mechanical Strain

Jyotsna Nagarapu, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Huaxiao Yang, College of Engineering

Poster Lot # 37

Investigating the Use of Chemical Oxidative Polymerization of Polyaniline as an Approach to Making Conductive Textiles

Praises Ogunbanwo, College of Engineering

Faculty Mentor: Dr. Melanie Ecker, College of Engineering

Poster Lot # 38

Shaping Minds: Ethical Considerations in Children's Tech-Based Entertainment

Douglas Parks, College of Engineering

Faculty Mentor: Dr. Ervin Frenzel, College of Engineering

College of Engineering (cont.)

Poster Lot # 39

Patient-Specific Aorta Phantom Model With Native Leaflets

Jai Anish Penumarthi. Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Fateme Esmailie, College of Engineering

Poster Lot # 40

Possibility of indoor navigation

Bisesh Rana, College of Engineering

Faculty Mentor: Professor Amar Maharjan, College of Engineering

Poster Lot # 41

An Optic Nerve Head Organ-on-Chip for Glaucomatous Neurodegeneration

Ria Rana, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Yong Yang, College of Engineering

Poster Lot # 42

Blood-Brain Barrier on Chip

Chloe Tang, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Yong Yang, College of Engineering

Poster Lot # 43

Navigating AI Cybersecurity: Challenges and Safeguards in Conversational Systems

Vedansh Tembhre, College of Engineering

Faculty Mentor: Dr. Pradhumna Shrestha, College of Engineering

Poster Lot # 44

Spark plasma sintering of novel niobium-based refractory high entropy alloys

Ella Nicole Viray, College of Engineering

Faculty Mentor: Dr. Thomas Scharf, College of Engineering

Poster Lot # 45

Predicting Material Properties Using Molecular Dynamics and Quantitative Structure-Property Relationship

Bryan Wang, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Jincheng Du, College of Engineering

College of Engineering (cont.)

Poster Lot # 46

2D dynamic Lidar Sensing Integration for Boston Dynamics quadruped robot

Shuopu Wang, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Vijay Vaidyanathan, College of Engineering

Poster Lot # 47

Design and Simulation of a Soft Pipe-Climbing Robot for Scalable and Energy-Efficient Pipe Inspection Operations

Victor Xu, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Amir Jafari, College of Engineering

Poster Lot # 48

Cooperative End-to-End Autonomous Driving

Cathy Du, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Song Fu, College of Engineering

College of Health & Public Service

Poster Lot # 49

Effects of Gender, Age, and Ethnicity on Nasality in Texan and Non-Texan Speakers

Alyson Charnas, College of Health and Public Service

Faculty Mentor: Professor Hedieh Hashemi Hosseinabad, College of Health and Public Service

Poster Lot # 50

The Comparison of Phonetic Inventories in Singing and Speaking

Addison Kaser, College of Health and Public Service

Faculty Mentor: Dr. Katsura Aoyama, College of Health and Public Service

Poster Lot # 51

Acoustic Analysis of /Êf/ and /o/

Makayla Kubasiak, College of Health and Public Service

Faculty Mentor: Dr. Katsura Aoyama, College of Health and Public Service

College of Health & Public Service (cont.)

Poster Lot # 52

Patterns and Frequency of consonants in children's early words

Leigh Loewenstein, College of Health and Public Service

Faculty Mentor: Dr. Katsura Aoyama, College of Health and Public Service

Poster Lot # 53

Wilms Tumor and Congenital Abnormalities

Kennedy Montgomery, College of Health and Public Service

Faculty Mentor: Dr. Julia Heck, College of Health and Public Service

Poster Lot # 54

Predictors of Vaccine Exemptions in Texas Schools

Funmi Owolabi, College of Health and Public Service

Faculty Mentor: Dr. Andrea Traylor, College of Health and Public Service

Poster Lot # 55

Evaluating the Difference in Nasalance Scores Between Speakers of the Texas South Dialect and Non-Texas Dialect

Maggie Stanfield, College of Health and Public Service

Faculty Mentor: Professor Hedieh Hashemi-Hosseinabad, College of Health and Public Service

Poster Lot # 56

Improving Constructional Fear Treatment Effectiveness for Treating Spider Phobias Using Physiological Measures of Arousal

Natalie Torres, College of Health and Public Service

Faculty Mentor: Dr. April Becker, College of Health and Public Service

Poster Lot # 57

A Window for Change: How did COVID-19 Create Opportunities for Post-Pandemic Transit

System Renewal

Raine Walker, College of Health and Public Service

Faculty Mentor: Dr. Laura Keyes, College of Health and Public Service

College of Information

Poster Lot # 58

Assessing the Human Likeness of AI-Generated Counterspeech **Sujana Mamidisetty**, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Lingzi Hong, College of Information

Poster Lot # 59

Creating Datasets to Model Next-day Wildfire Spread Implementing Data of Topographical and Meteorological Features

Saanvi Mhatre, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Ting Xiao, College of Information

Poster Lot # 60

From Text to Immersion: Designing a Hybrid Chatbot for a Virtual Environment

Adrian Pedraza, College of Engineering

Faculty Mentor: Dr. Xun Ge, College of Information

Poster Lot # 61

Real time adaptaion in virtual training environments using EEG technology

Sebastian Ting, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Fred McMahan, College of Information

Poster Lot # 62

Comprehensive Dataset Utilizing Meteorological and Topographical Features for Next-Day Wildfire Spread Prediction

Sunny Zhang, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Ting Xiao, College of Information

College of Liberal Arts & Social Sciences

Poster Lot # 63

The Protestant Reformation and the Supernatural **Arkadina Cadena**, College of Liberal Arts & Social Sciences Faculty Mentor: Dr. Walter Roberts, College of Liberal Arts and Social Sciences

College of Liberal Arts & Social Sciences (cont.)

Poster Lot # 64

Heterosexist Discrimination and Mental and Physical Health: A Meta-Analysis

Lawrence Castro, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Kiet Huynh, College of Liberal Arts and Social Sciences

Poster Lot # 65

Between the Family Lines: Baptismal Records, Social Networks, and Enslaved Communities in eighteenth-century French India

Aster Fohl, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Jakob Burnham, College of Liberal Arts and Social Sciences

Poster Lot # 66

Prefrontal fNIRS-Based Cortical Activity Patterns Differ during Negative Emotional Recall in Young Adults with Complex PTSD

Prisha Goyal, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Anthony Ryals, College of Liberal Arts and Social Sciences

Poster Lot # 67

Coping with Internalized LGBTQ+ Stigma

Mars Hines, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Kiet Huynh, College of Liberal Arts and Social Sciences

Poster Lot # 68

Predictors of Dream Recall: The Role of Childhood Experiences, Mental Health, and Dream-Related Factors

Danya Husein, College of Liberal Arts & Social Sciences, College of Health and Public Service

Faculty Mentor: Dr. Danica Slavish, College of Liberal Arts and Social Sciences

Poster Lot # 69

Out of Sight, Out of Rights: How Forced Disappearances of Activists in China Threaten Human Rights

Annika Kang, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Kimi King, College of Liberal Arts and Social Sciences

Poster Lot # 70

Women, Nature, and Resistance: The Role of Ecofeminism in Resisting Violence and Capacity Building

Nicole King, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Kimi King, College of Liberal Arts and Social Sciences

College of Liberal Arts & Social Sciences (cont.)

Poster Lot # 71

Tracing Darwin's Path - Subantarctic Biocultural Conservation **Giovanna Kirschner**, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Michael Thompson, College of Liberal Arts and Social Sciences

Poster Lot # 72

Over-represented and Under-protected: The Rhetorical Debility of LGBTQ+ Foster Youths in Texas

Alexis Lara, College of Liberal Arts & Social Sciences Faculty Mentor: Dr. Matthew Heard, College of Liberal Arts and Social Sciences

Poster Lot # 73

Beyond Borders: The Political, Economic, and Environmental Forces Driving Sudan's Crisis **Hatoon Lutfi**, College of Health and Public Service Faculty Mentor: Dr. James Meernik, College of Liberal Arts and Social Sciences

Poster Lot # 74

ADHD and Identity

Arianna Michaud, College of Liberal Arts & Social Sciences, College of Visual Arts Faculty Mentor: Dr. Jara Carrington, College of Liberal Arts and Social Sciences

Poster Lot # 75

Does Perceived Social Support Relate to Rapport in Neuropsychological Testing?

Noelle Miner, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Michael Barnett, College of Liberal Arts and Social Sciences

Poster Lot # 76

Word List Task Outperforms Cognitive Screener in Neurocognitive Disorder Detection **Débora Peixoto**, College of Liberal Arts & Social Sciences
Faculty Mentor: Dr. Michael Barnett, College of Liberal Arts and Social Sciences

Poster Lot #77

Neurocognitive Domains that Moderate the Relationship Between Self-Report and Performance-Based Adaptive Functioning in Older Adults

Ramya Priya Ravinuthala, College of Liberal Arts & Social Sciences Faculty Mentor: Dr. Michael Barnett, College of Liberal Arts and Social Sciences

College of Liberal Arts & Social Sciences (cont.)

Poster Lot # 78

Student Experiences in Texas Higher Education

Berkeley Robinson`, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Mariela Nunez-Janes, College of Liberal Arts and Social Sciences

Poster Lot # 79

A Qualitative Investigation of Sense of Belonging Among Black Students Attending a Minority Serving Institution

Asia Watkins, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Martingue Jones, College of Liberal Arts and Social Sciences

Poster Lot # 80

Premorbid Intellectual Functioning and Not Education Predicts Memory Performance Virtual Environment Grocery Store

Caroline Watson, College of Liberal Arts & Social Sciences

Faculty Mentor: Dr. Michael Barnett, College of Liberal Arts and Social Sciences

Poster Lot # 81

Understanding Texas' COPD Crisis: A Geographic and Statistical Analysis of Mortality Hotspots

Rhizhene Pullen-Parmes, College of Science

Faculty Mentor: Dr. Joseph Oppong, College of Liberal Arts and Social Sciences.

College of Merchandising, Hospitality & Tourism

Poster Lot #82

Case Study on Branded Recommerce: An Exploratory Study on the Business Leadership and Consumers

Caroline Bowen, College of Merchandising, Hospitality and Tourism

Faculty Mentor: Dr. Jiyoung Kim, College of Merchandising, Hospitality and Tourism

Poster Lot #83

AI Generated Beauty: An Investigation of Same Face Syndrome

Cassandra Castro, College of Merchandising, Hospitality and Tourism

Faculty Mentor: Dr. Christy Crutsinger, College of Merchandising, Hospitality and Tourism

College of Merchandising, Hospitality & Tourism (cont.)

Poster Lot #84

Macro-influencers Vs. Micro-influencers: Impact of Changing Consumer Behavior **Alicia Langlais**, College of Merchandising, Hospitality and Tourism Faculty Mentor: Dr. Sanjukta Pookulangara, College of Merchandising, Hospitality and Tourism

Poster Lot #85

Fate of Prepared Food in UNT Dining Halls

Nathaniel Rotunno, College of Merchandising, Hospitality and Tourism

Faculty Mentor: Dr. Priscilla Connors, College of Merchandising, Hospitality and Tourism

College of Science

Poster Lot #86

Design and Enhancement of a Custom Untargeted Mass Spectrometry Database for Metabolomic Profiling

Cindy Alonso-Cocuron, College of Engineering, College of Science

Faculty Mentor: Dr. Ana Paula Alonso, College of Science

Poster Lot #87

Impacts of Cortical Trauma and Stroke on Hippocampus **Surya Anand**, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Feng Gu, College of Science

Poster Lot #88

Tardigrades: In-Depth Analysis

Shaktivel Anand, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Jaime Jimenez, College of Science

Poster Lot #89

CHOMP 1-30 2-L

Pranshu Bhardwaj, Texas Academy of Mathematics $\ensuremath{\mathcal{C}}$ Science

Faculty Mentor: Dr. Lior Fishman, College of Science

College of Science (cont.)

Poster Lot # 90

Impacts of Cortical Trauma and Stroke on Hippocampus **Riddhish Bommineni**, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Feng Gu, College of Science

Poster Lot # 91

The expression and purification of the AtFCH1 protein with GST tag

Rashel Bullon, College of Science

Faculty Mentor: Dr. Xiaoqiang Wang, College of Science

Poster Lot # 92

Are there Morphometric Differences between Resident and Migratory American Kestrels in Denton County, TX?

Jonothon Cantu, College of Science

Faculty Mentor: Dr. Jim Bednarz, College of Science

Poster Lot # 93

Remnants of Fire: The Preservation of Charred Documents by Adhesive Sprays

Vy Chac, College of Science

Faculty Mentor: Dr. Teresa Golden, College of Science

Poster Lot # 94

Developing Classification Models with ESM-2: From Binary to Drug Mechanism

Ajooni Chandi, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Rajeev Azad, College of Science

Poster Lot # 95

Effect of Intramolecular Hydrogen Bond Formation on the Abraham Model Solute Descriptors for Oxybenzone

Jocelyn Chen, Texas Academy of Mathematics & Science Faculty Mentor: Dr. William Acree, College of Science

Poster Lot # 96

Taxonomic and Functional dynamics of macroinvertebrate communities occupying droughtprone streams

Benjamin Copeland, College of Science

Faculty Mentor: Dr. David Hoeinghaus, College of Science

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College of Science (cont.)

Poster Lot # 97

Restoration Insights: Evaluating River Health Through Dissolved Organic Carbon

Composition Dynamics

Emily Coronado, College of Science

Faculty Mentor: Dr. Juliana D'Andrilli, College of Science

Poster Lot # 98

The Design of Prebiotic Coiled Coil Proteins

Victoria Dobbs, College of Science

Faculty Mentor: Dr. Douglas Root, College of Science

Poster Lot # 99

Graph Theory in Cops and Robbers

Shriya Dontula, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Lior Fishman, College of Science

Poster Lot # 100

Using qPCR to Assess Changes in the Expression of TR- \hat{I}^2 in North Fur Seals (Callorhinus ursinus) and the Relationship to Persistent Organic Pollutant Exposure

Lacey Eddleman, College of Science

Faculty Mentor: Dr. Brianne Soulen, College of Science

Poster Lot # 101

Investigation of the Impact of Lipases on Fatty Acids in Cotton

Dhrithi Gambhirrao, College of Science

Faculty Mentor: Dr. Patrick Horn, College of Science

Poster Lot # 102

Applications of Photobiomodulation for Hearing Preservation: An Investigation of Non-equilibrium Thermal Radiation in Porous Media

Naren Ganesh, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Yuzhe Xiao, College of Science

Poster Lot # 103

Painted Bunting (Passerina ciris) nesting succes in North Texas

Ashley Giron, College of Science

Faculty Mentor: Dr. James Bednarz, College of Science



College of Science (cont.)

Poster Lot # 104

Characterization of the obesogenic outcomes of diesel exhaust particulate matter exposure in adipose tissue of C57BL/6 mice

Amaya Green, College of Science

Faculty Mentor: Dr. Amie Lund, College of Science

Poster Lot # 105

Conjectures on Upper and Lower Cop Number Bounds for N-Speed Robbers

Hunter Hoinkes, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Lior Fishman, College of Science

Poster Lot # 106

CancerNet Extension Project

Anav Jain, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Rajeev Azad, College of Science

Poster Lot # 107

Characterizing Protein Interactions in Arabidopsis thaliana for Insights into Gene Functions

Meher Jammalamadaka, Texas Academy of Mathematics ${\mathcal E}$ Science

Faculty Mentor: Dr. Patrick Horn, College of Science

Poster Lot # 108

Expression and Purification of AtOXC, an Enzyme Involved in Oxalate Catabolism Pathway in Arabidopsis thaliana.

Matias Jaramillo, College of Science

Faculty Mentor: Dr. Xiaoqiang Wang, College of Science

Poster Lot # 109

: Role of UPR and autophagy in HR4 mediated green peach aphid resistance in Arabidopsis

Jenny Ju, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Jyoti Shah, College of Science

Poster Lot # 110

Reductions of Elliptic Curves and Their Galois Representations

Ethan Karpeles, College of Science

Faculty Mentor: Dr. Lea Beneish, College of Science

College of Science (cont.)

Poster Lot # 111

Notch Receptor Expression is Altered in the Adipose Tissue of Female C57BI/6 mice exposed to Diesel Exhaust Particulate Matter

Molly Kelly, College of Science

Faculty Mentor: Dr. Amie Lund, College of Science

Poster Lot # 112

Dispersal Movements of Marked Harris's Hawks Among Territories in South Texas

Alex Kent, College of Science

Faculty Mentor: Dr. James Bednarz, College of Science

Poster Lot # 113

Impact on Distance Decay on Limno-terrestrial Tardigrades

Chaewoo Kim, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Jaime Jimenez, College of Science

Poster Lot # 114

Video Footage Surveillance and Assessment of the Western Population of Female Painted Buntings (Passerina ciris) and their Nesting Behaviors in North Texas

Remington Kirchner, College of Science

Faculty Mentor: Dr. Jim Bednarz, College of Science

Poster Lot # 115

Acute Toxicity Assessment of Caffeine and Humic Acid on Daphnia Magna

Mrunal Kosaraju, College of Science

Faculty Mentor: Dr. Edward Mager, College of Science

Poster Lot # 116

Biochemical Study of AtFCH2-GST which is a key enzyme involved in Oxalate Catabolism Pathway in Arabidopsis Thaliana

Samriddhi Kuinkel, College of Science

Faculty Mentor: Dr. Xiaoqiang Wang, College of Science

Poster Lot # 117

Predicting Pollutant Uptake For Plant Cuticle Membranes and Polymer Matrix Membranes via A Free Energy Parameter Approach

Dhishithaa Kumarandurai, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Dr. William Acree Jr., College of Science

College of Science (cont.)

Poster Lot # 118

Time Dependent Depth Temperature Profiling Through Machine Learning

Kevin Li, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Yuzhe Xiao, College of Science

Poster Lot # 119

Predicting Pollutant Uptake For Plant Cuticle and Polymer Matrix Membranes via A Free Energy Parameter Approach

Bradley Lin, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. William Acree, College of Science

Poster Lot # 120

Investigating the Role of Calcium-Binding Proteins in Zebrafish Hemostasis Using Gene Knockdown and Gill Bleeding Assays

Srinithya Manthena, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Pudur Jagadeeswaran, College of Science

Poster Lot # 121

Synthesis and Application of Photoluminescent, Biocompatible Metal Complex

Mahek Mehta, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Mohammad Omary, College of Science

Poster Lot # 122

IEMR Lab: Advanced Characterization of Transition Metal

Dichalcogenides and their Wet Cleaning Interactions for High Efficiency

Transistor Fabrication

Shree Mishra, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Oliver Chyan, College of Science

Poster Lot # 123

Compiling an In-House Untargeted Mass Spectrometry Database for Metabolite Identification

Julia Moreira, College of Science

Faculty Mentor: Dr. Ana Paula Alonso, College of Science

Poster Lot # 124

Improvement of Successful Transplants and Arbuscular Mycorrhizal Fungi (AMF) Application: Understanding Barriers to Native Texas Prairie Grass Establishment

Calvin Nering, College of Science

Faculty Mentor: Dr. Jaime Baxter-Slye, College of Science



College of Science (cont.)

Poster Lot # 125

Investigation of alpha oxidation pathways in cotton.

Michael Newton, College of Science

Faculty Mentor: Dr. Patrick Horn, College of Science

Poster Lot # 126

Characterizing the effects of diesel exhaust particulate matter and glucagon-like peptide-1 agonist treatment on pancreatic inflammation across sexes in C57BL/6 mouse models

Mikella Nguyen, College of Science

Faculty Mentor: Dr. Amie Lund, College of Science

Poster Lot # 127

Determining the Impact of Acclimation Periods on Sequential Physiological Tolerance Tests

Sarah Paroski, College of Science

Faculty Mentor: Dr. David Hoeinghaus, College of Science

Poster Lot # 128

Predicting Solubilities In Organic Solvents Using the Abraham Model

Gabriel Perez, College of Science

Faculty Mentor: Dr. William Acree, College of Science

Poster Lot # 129

How Is Native, Cavity-Nesting Bee Colonization Driven By Resource Availability & Habitat Coverage Within An Urban College Campus?

Ethan Phillips, College of Science

Faculty Mentor: Dr. Jaime Baxter-Slye, College of Science

Poster Lot # 130

Spatial and Temporal Dynamics in Size Structure of Endangered Sharpnose and Smalleye Shiner in the Upper Brazos River Basin

Sara Puentes, College of Science

Faculty Mentor: Dr. David Hoeinghaus, College of Science



College of Science (cont.)

Poster Lot # 132

Morphological and Physiological responses of developing zebrafish (Danio rerio) exposed to intermittent hypoxia

Shriya Raja, Texas Academy of Mathematics & Science Faculty Mentor: Gil Martinez-Bautista, College of Science

Poster Lot # 133

Identification and Characterization of Electron Donor Proteins Involved in Cyclic Fatty Acid Biosynthesis in Cotton Using Virus-Induced Gene Silencing

Jeevaprakash Rajendran, College of Science Faculty Mentor: Dr. Patrick Horn, College of Science

Poster Lot # 134

Rational Design and Functionalization of MOF Materials for Catalysis

Sanjay Ravella, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Shengqian Ma, College of Science

Poster Lot # 135

An Efficient Finite Element Numerical Scheme for a Gray-Scott Reaction-Diffusion Model **Dipansh Regmi**, College of Science

Faculty Mentor: Dr. Giordano Tierra Chica, College of Science

Poster Lot # 136

Using Arbuscular Mycorrhizal Fungi to Improve Establishment of Prairie Grasses in an Urban Reconstructed Habitat

Dylan Reinart, College of Science

Faculty Mentor: Dr. Jaime Baxter-Slye, College of Science

Poster Lot # 137

Video Footage of Nesting Behaviors With Female Painted Bunting's Offsprings at Lewisville Lake Environmental Learning Area (LLELA)

Mia Rice, College of Science

Faculty Mentor: Alejandra Gage, College of Science

Poster Lot # 138

Effects of flow cessation on trophic dynamics in a drought-prone stream

Breanna Ross, College of Science

Faculty Mentor: Dr. David Hoeinghaus, College of Science

College of Science (cont.)

Poster Lot # 139

Elucidating the Cyclic Fatty Acid Biosynthetic Pathway in Cotton using Virus Induced Gene Silencing

Gabrielle Rust, College of Science

Faculty Mentor: Dr. Patrick Horn, College of Science

Poster Lot # 140

Possible Drivers of Similarity of Terrestrial Food Webs

Abbey Schedler, College of Science

Faculty Mentor: Dr. Elinor Lichtenberg, College of Science

Poster Lot # 141

Thermal Tolerance on Vinegar Eels (Turbatrix Aceti) Across Generations

Rian Shah, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Warren Burggren, College of Science

Poster Lot # 142

Devising Metal-Organic Framework Technology for Scalable Direct Air Capture of CO₂

Elliott Slaughter, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Shengqian Ma, College of Science

Poster Lot # 143

Understanding the Expression of Hox Genes on Factor IX Expression

Lucille Tagnon, Texas Academy of Mathematics & Science

Faculty Mentor: Dr. Pudur Jagadeeswaran, College of Science

Poster Lot # 144

Leveraging Electrostatic Differences in Metal-Organic Frameworks for On-Demand Drug Release

Abby Tian, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Shengqian Ma, College of Science

Poster Lot # 145

Protein expression and purification of AtOXC-TEV

Brisa Valdez Piza, College of Science

Faculty Mentor: Dr. Xiaoqiang Wang, College of Science

College of Science (cont.)

Poster Lot # 146

Development of Cu Selective Passivation Coating and Corrosion Prevention Strategy in Different Copper-Aluminum (Cu-Al) Wire-Bonded Devices

Nandini Voruganti, Texas Academy of Mathematics & Science

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Faculty Mentor: Dr. Oliver Chyan, College of Science

Poster Lot # 147

Analysis of MOFs and Enzymes **Paige Walsh**, College of Science

Faculty Montan, Dr. Shanggian Ma. College

Faculty Mentor: Dr. Shengqian Ma, College of Science

Poster Lot # 148

An Exploration of the Mathematical Games of Cops and Robbers **Jingyuan Wang**, Texas Academy of Mathematics & Science Faculty Mentor: Dr. Lior Fishman, College of Science

Poster Lot # 149

Unititled

Sophie Wang, Texas Academy of Mathematics $\ensuremath{\mathcal{C}}$ Science

Faculty Mentor: Dr. Jose Perez, College of Science

Poster Lot # 150

Abraham Solvation Model: A Comparison of Experimentally Determined Solute Descriptors with Predictive Models.

Adam Witterstaetter, College of Science

Faculty Mentor: Dr. Bill Acree, College of Science

College of Visual Arts & Design

Poster Lot # 151

Shining a Light on Learning: Investigating the Role of Lighting in Classroom Design **Hannah Matthews**, College of Visual Arts

Faculty Mentor: Professor Jeannine Vail, College of Visual Arts and Design

Poster Lot # 152

Abschied und Tod: The Impact of Grief and Faith on Käthe Kollwitz from 1914 to 1924 **Isabella McCord**, College of Visual Arts, College of Liberal Arts & Social Sciences Faculty Mentor: Dr. Kurt Rahmlow, College of Visual Arts and Design

Poster Lot # 153

UNT and Glidance

Carlos Reyna, College of Visual Arts

Faculty Mentor: Professor Cassini Nazir, College of Visual Arts and Design

