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Student Research Symposium Schedule 2024

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10th Annual Student Research Symposium Program Committee

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Vijay Golla Vice Provost for Research & Health Sciences

Symposium Schedule at a Glance

8:30-9:00am: Attendee Check-in (BLH Lobby)

9:00am: Symposium Opening (BLH Multipurpose Room)

9:30-10:45am: Morning Concurrent Oral Presentation Sessions (BLH Classrooms)

9:30-10:30am: Morning Poster Session (BLH Lobby)

11:00-11:45am: Three-Minute Thesis Winners Session (BLH Multipurpose Room)

12:00-1:00pm: Luncheon & Keynote Speaker (BLH Multipurpose Room)

1:15-2:30pm: Afternoon Concurrent Oral Presentation Sessions I (BLH Classrooms)

2:15-3:15pm: Afternoon Poster Session (BLH Lobby)

3:15-4:30pm: Afternoon Concurrent Oral Presentation Sessions II (BLH Classrooms)

4:30-5:00pm: Symposium Closing / Pickup Posters



Featured Speakers

Laurie Ann Guerrero

Associate Professor / Writer-in-Residence Texas A&M University-San Antonio

Laurie Ann Guerrero, born and raised in the Southside of San Antonio, is the author of *Babies Under the Skin* (Panhandler 2007), *A Tongue in the Mouth of the Dying* (University of Notre Dame Press 2013), *A Crown for Gumecindo* (Aztlan Libre Press 2015), and *I Have Eaten the Rattlesnake: New & Selected Poems* (TCU Press 2021). Guerrero has held consecutive positions of Poet Laureate of the city of San Antonio (2014-2016) and the State of Texas (2016-2017). She holds a B.A. in English Language & Literature from Smith College, an MFA in poetry from Drew University, and is an associate professor and the Writer-in-Residence at Texas A&M-San Antonio.





Rodney E. Rohde

Regents & University Distinguished Professor of Medical Laboratory Science Texas State University

Rodney E. Rohde, PhD, SM(ASCP)^{CM}, SV^{CM}, MB^{CM}, is Regent's and University Distinguished Professor and Chair of the Medical Laboratory Science Program, College of Health Professions, and Associate Director, Translational Health Research Center at Texas State University in San Marcos and an associate adjunct professor of biology at Austin Community College in Texas and is a board-certified specialist in virology, microbiology, and molecular biology with the American Society for Clinical Pathology.

Symposium Check-In

BLH Lobby

9:00-9:30am

Symposium Opening

BLH Multipurpose Room

Salvador Hector Ochoa

President, Texas A&M University-San Antonio

"Ars Politica"

Laurie Ann Guerrero Associate Professor & Writer-in-Residence, Texas A&M University-San Antonio

9:30-10:45am: Morning Concurrent Oral Presentation Sessions

Studies in Biology & Water Resources

BLH 262

Impact of Management Strategies of the San Antonio River on Mosquito Diversity and Abundance Kailynn Wells, *Biology*

Target Macrophytes: Increasing Water Quality Through Optimized Vegetation Considerations for Constructed Wetlands Kimia Ahmadiyeh, *Water Resources*

Desalination of Synthetic Produced Water by Directional Solvent Extraction in a Semi-Continuous System Pablo Vicaria, *Water Resources*

Moderator: Rodolfo Valdez, Biology



Scan the QR code to view full-text abstracts of student projects presented at the symposium!

Studies in Ecology

BLH 266

Understanding Amphibian Life Cycle Ecology and Evolution via Agent-Based Modeling Jesus Lopez, *Biology*

Insights into Subterranean Connectivity Within the Aquifer of the Yucatán Peninsula: Population Genetics and Distribution of *Typhlatya* Species Gabrielle Vaughn, *Biology*

Discovering New Phytoplasma Strains in Texas: A Study on Insects and Wild Grasses Danielle Rios, *Biology*

Moderator: Ashley Teufel, Biology

Learning and Living

BLH 362

The World on Women's Shoulders: A Quantitative Analysis of the Relationship Between Gender and the Environment Renate Fort, *Sociology*

Analyzing the Performance and Cost-Efficiency of Deploying Machine Learning Models in Cloud Hongyu Wang, *Computer Science*

Nurturing Student's Academic Belongingness and Success Within a Hispanic Majority Institution Arianna Acosta & Jasmyne Thomas, *Psychology*

Blast Off: The Comic Format as a Launchpad for Meaning-Making in Tillie Walden's On a Sunbeam Krystyn Stacy & Marissa Cook, English

Moderator: Sarah Pollock, Sociology

Investigations in Psychology

BLH 366

Going Gray Too Early: Color (Grayscale) Effects on Correct Facial Identification Roman Pardo, Mikael Gabriel Ona, & Arleth Morquecho, *Psychology*

Two Wrong Decisions are Worse Than One: Dual-Task Performance on an ID Screening Task Nathan Wieters, Arleth Morquecho, & Mikael Gabriel Ona, *Psychology*

Age-Based Stereotype Threat in Older Witness: A Cultural Investigation Maria Santillan Ibarra, Steven Matias, & Jorge Santillan Ibarra, *Psychology*

Moderator: Dawn Weatherford, Psychology

9:30-10:30am: Morning Poster Session

Morning Poster Session

BLH Lobby

Social Characteristics of Water Conservation Korina Alcantara, *Sociology*

Forms of Social Comparison in Different Socioeconomic and First-Generation Statuses Juliana Arguello, Alena Raya, Isabella Castellanos, Jasmyne Thomas, & Anisa Halperin, *Psychology*

Reproductive Natural History of the American Grass Mantid, *Thesprotia graminis* Bridget Battaglia, *Biology*

Creating a New Measure of Traditional (Toxic) Masculinity: The TM Survey Miranda Bernal, *Psychology*

Academic Self-Concept Differs by Type of Social Comparison at a Hispanic Majority Institution Isabella Castellanos, Alena Raya, & Anastacia Wicks, *Psychology*

Navigating the Future: Communication Skills and Employability in Accounting Students MaryAnn Cumpian, *Accounting*

It's Not Me, It's You: Attachment, Love Styles, and Breakup Distress Katelynn Flores, *Psychology*

Determining the Causal Effects and Moderating Role of Social Comparison Among Hispanic Undergraduate Students at a Minority Serving University Anisa Halperin, Juliana Arguello, Alena Raya, & Isabella Castellanos, *Psychology*

Bingocize®: Enhancing Physical and Cognitive Health for Nursing Home Residents Jordan Kappmeyer & Maria Santillan Ibarra, *Psychology*

Breast Cancer and Hopelessness Aimee Kling & Angelica Ramirez, *Psychology*

The Greatest of These is Love-- Or is it Secure Attachment? Kayla Lopez & Jarad Reiss, *Psychology*

Economic Sanction and International Migration Angie Martinez, *Political Science*

Ecological Use of AI for Invertebrate Zoology Ana Flores, *Biology*

Unveiling Hidden Factors: Spatial-Temporal Roadway Accident Visualization and Analysis in San Antonio Cristian Moran, *Computer Science*

JagCoach: AI-Assisted Coaching Platform to Enhance Oral Communication Skills for College Students Rudy Ramos, *Computer Science*

'Whatcha' lookin' at: Using Eye-Tracking Technology for ID Verification Chloe Sullivan, Steven Matias, Kaitlyn Acierno, Laritza Garcia, & Juliana Arguello, *Psychology*

It's All About Me: How Narcissism Impedes Facial Recognition Adriana Rodriguez, Edith Escamilla, Ana Zavala, & Stephanie Gooding, *Psychology*

Attention Deficit Hyperactivity Disorder and Autism Spectrum Disorder Predicting Prospective and Retrospective Memory Julianna Valencia, Chelsea Schwartz, & Ocktavius Palomares, *Psychology*

Gender Differences Emotions Regulations in Work vs Relationship Situations Marilyn Garcia & Abby Moriarty, *Psychology*

Three-Minute Thesis Winners Session

BLH Multipurpose Room

Three A&M-SA graduate students will present their winning speeches for the Three-Minute Thesis competition.

Moderator: Ting Liu, Dean of Graduate Studies

12:00-1:00pm: Lunch & Keynote Speaker

Lunch & Keynote Speaker

BLH Multipurpose Room

Globalization and Infectious Disease: The New World Rodney E. Rohde, Regents Professor of Medical Laboratory Science, Texas State University

1:15-2:30pm: Afternoon Concurrent Oral Presentation Session I

Studies in Biology

BLH 262

Impact of Land Development on Soil Microdiversity Dennis Guillen Castro, *Biology*

A Computational Systems Biology Approach for the Identification of Antimicrobial Resistance Genes in *Staphylococcus aureus* Md Imran Hasan, *Biology*

Seasonal Changes in Groundwater Chemistry of the Edwards Aquifer Alisha Martinez, *Water Resources*

Agent-Based Modeling to Assess Optimal Conditions for Reducing Air Transmission Lyndsy Stacy, *Biology*

Moderator: Pride Abongwa, Geology

Studies in Social Psychology

BLH 266

Relationship Satisfaction Predicted by Childhood Trauma, Attachment Styles, and Religiosity Jazette Tellez & Gerardo Bocanegra, *Psychology*

Convergent Evolution of Signaling Mechanisms in Pain and Stress Citlalli Guadarrama, *Psychology*

Relationship Satisfaction: Stress and Resilience Brittany McCoslin, Stephanie Cruz, Carissa Farley, & Alicia Ramirez, *Psychology*

Moderator: Amy Bohmann, Psychology

Studies in History

BLH 362

The Cost of Christianity for Samurai from 1549-1620 Hunter Harrison, *History*

The African Settlement of San Mateo de Cangrejos and its Historical and Cultural Influence on Puerto Rican Society Diego Feliciano, *History*

From Jackie Robinson to Today Deshaun Borders, *History*

Cattle in Our Local Area Evan Lambert, *History*

Moderator: Zhaojin Zeng, History

Afternoon Poster Session

BLH Lobby

Techno-Economic and Environmental Assessments of Produced Water Treatment for Beneficial Reuse Elora Afrin, *Water Resources*

Thermal Physiology of a Warm-Adapted Temperate Lizard, the Texas Spotted Whiptail Infinity Alvarez & Hailey Cruz, *Biology*

Electrocoagulation of Synthetic Produced Water Using a Continuous-Flow Reactor Benjamin Arellano & Chloé Casuga, *Water Resources*

The Effects of Movement Planning on Ground Reaction Force During a Single-Leg Landing Jaelynn Barrera, *Kinesiology*

Electrical Coagulation of Synthetic Produced Water Using a Continuous Flow Reactor Chloé Casuga, *Computer Science*

Mosquito Abundance Within the San Antonio Zoo Laura Cruz, *Biology*

Studying the Indoor Air Transmission of *Staphylococcus aureus* Lauren Esp, *Biology*

Where are the Latinas? An Analytical Analysis of the Media and the DOD Layla Hernandez, *Sociology*

The Activity and Origin of Chitinases in the Gut of the Mediterranean Gecko Alec John, *Biology*

Dating Attitudes Brittany McCoslin, Psychology

An Invertebrate Model Using *Galleria mellonella* to Study the Innate Immune Response to *Staphylococcus haemolyticus* Rebecca McGehee, Shedeur Keener, & Skyler Sallee, *Biology*

Job Satisfaction, Stress, and Verbal Praise Jacquelynne Rios, Linda Castillo, & Amparo Luna, *Psychology*

Allometric Growth in *Gambusia Affinis* Andrea Rodriguez, *Biology* 2:15-3:15pm: Afternoon Poster Session (continued)

Optimizing Omnivory: Quantifying Digestive Efficiency in Response to Different Diets in the Day Gecko, *Phelsuma grandis* Angela Roth & Haley Johnson, *Biology*

Comparative Thermal Ecology of a Recently Urbanized and a Wild Population of *Sceloporus olivaceous* in San Antonio Claudia Salazar & Aisha Abdirahman, *Biology*

Effect of Probiotics and Lime Water on Body Weight and Body Composition Francis Sanchez, *Kinesiology*

3:15-4:30pm: Afternoon Concurrent Oral Presentation Session II

Borderlands Rhetorics and Histories

BLH 262

The Lucha of Lucha Libre Gabriel Luna, *History*

Recuperative Rhetorics: A Novel Framework for Rhetorical Analysis Nicolas Palumbo, *English*

Professional Development in Spanish for Dual Language Teachers: Communities of Practice in the Target Language of Instruction Shelem Morales, *Bilingual Education*

Moderator: Amy Porter, History

Studies in Biology

BLH 266

Thermal Physiology of The Giant Day Gecko, Phelsuma grandis Infinity Alvarez, Biology

Characterizing the Metazoan Community of an Undisturbed Cenote of the Yucatan Peninsula, Mexico Muntadher Mashaan, *Biology*

Transcriptomics of Typhlatya Danielle Bragg, *Biology*

Moderator: Elizabeth Borda, Biology