

8th
ANNUAL

SRSU
STUDENT

SYMPOSIUM

RESEARCH

INNOVATE

CREATE

COLLABORATE

2025 KEYNOTE SPEAKER:

April 11th @ Noon - Dr. Bryon Schroeder
Director of the Center for Big Bend Studies



JOIN US TO SUPPORT OUR SRSU
STUDENTS FROM ALL CAMPUSES
AS THEY SHOW THEIR PROJECTS
IN PRESENTATIONS & POSTERS
BOTH IN-PERSON AND VIRTUALLY!

APRIL 11th - IN-PERSON SESSIONS

ALPINE CAMPUS - UC ESPINO CENTER
NOON - 6:00 PM

srinfo.sulross.edu/srsusymposium
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COMMUNICATE

SRSU STUDENT SYMPOSIUM
FRIDAY, APRIL 11TH, 2025
SUL ROSS STATE UNIVERSITY, UC ESPINO CENTER, SECOND FLOOR

12:00 - 12:50 PM

WELCOME AND KEYNOTE

12:00 - 12:05 PM

WELCOME AND KEYNOTE INTRODUCTION

Dr. Bernie Canteñs
Executive Vice President & Provost

12:05 - 12:40 PM

8TH ANNUAL SYMPOSIUM KEYNOTE SPEAKER

Dr. Bryon Schroeder
Assistant Professor of Anthropology, Director of the Center for Big Bend Studies, Sul Ross State University



DR. BRYON SCHROEDER

Dr. Bryon Schroeder is an Assistant Professor of Anthropology and the Director of the Center for Big Bend Studies at Sul Ross State University. He earned a BA and an MA from the University of Wyoming and his PhD from the University of Montana, all in Anthropology. He joined Sul Ross State University in 2016 as a field archaeologist and became the Director of the Center in 2020.

He has been working in archaeology since he was 16 years old, exemplifying the saying that if you do what you love, you will never work a day in your life. From the very first artifact he discovered as a kid, he has been enamored with how humans lived in the past. This interest has led to a diverse research career spanning the signatures of human warfare, human adaptation in high-altitude environments, human and plant genetics, and everything in between (which proves to be quite extensive). He has had a broad career in private-sector compliance archaeology and pursued higher education to help students ignite their passion for the past. He has been a long-standing professional member of the Society for American Archaeology and has held board appointments with various local archaeology societies, as well as being a registered professional archaeologist. At Sul Ross he has been involved with the formation of the Anthropology program, aiding in the development of both an MA and a soon-to-be-offered BA.

His publication record reflects his diverse interests, spanning the use and construction of fortifications by Indigenous groups in the northern Rocky Mountains to the genetics of Maize in the Big Bend region of Texas. Science communication is one of his passions, and he ensures that these publications are widely accessible and engaging for a broader audience.

UC Espino A

Room Moderator: Dr. Julianna Dean

An Overview of The Prevalence of Disordered Eating Habits and Eating Disorders In Female Collegiate Athletes:

A Scoping Review

Camryn Medina (P)

1:00-1:15 pm

Muscle Oxygen Saturation In United States Collegiate Female Gymnasts During Floor Exercise

Anna Campos (M)

1:20-1:35 pm

The Ethics of Automation: How Many Jobs Should We Really Replace?

Dayln Dunbar (P)

1:40-1:55 pm

UC Espino C

Room Moderator: Benjamin Barrientes

America At Work: The Lasting Legacy of The WPA In The Big Bend Region

Tyren Dews

1:00-1:15 pm

An Investigation Into Yukio Mishima's "Sun and Steel: Aesthetics of the Collective Identity"

Kelsey Pavelick

1:20-1:35 pm

The Case Defense for State of Georgia v. Cassandra Bjorge 2017 Appeal

Saul Barrientes (M)

1:40-1:55 pm

UC Espino B

Room Moderator: Dr. Ryan Luna

Distribution of High-elevation Owls In The Davis Mountains, Texas

Shelby duPerier (B)

1:00-1:15 pm

Dung Beetle Diversity In Grazing Regimes of Desert Grasslands

Christopher Mott (P) (B)

1:20-1:35 pm

UC Espino 210

Room Moderator: Angela McGuyer

Nursing School Chronicles: A Podcast Through The Eyes of Nursing Students

Rachael Atuegwu, Salma Chavez, Joel Montes, Sara Ramos, Jacob Salinas, Jenna Spencer, Brylee Sweeten

1:00-1:50 pm

Affiliated Programs Legend

(B) Borderland Research Institute

(M) McNair Scholar

(P) PPOHA Fellow

(N) Noyce Scholar

UC Espino A

Room Moderator: Dr. Kevin Urbanczyk

The Effects of Ecotourism on Groundwater Resources in Brewster County, Texas

Tina Neufeld (P)

2:00-2:15 pm

New and Old Technologies for Soil Erosion Control: Using Remote Sensing to Monitor the Effectiveness of Trincheras

Gray Hancock (B)

2:20-2:35 pm

Monitoring Stream Restoration in Matonoso Creek

Cole Payne

2:40-2:55 pm

UC Espino C

Room Moderator: Dr. Alicia Trotman

Preliminary Results: Police Cadets' Perceptions of Ethical Boundaries in Hypothetical Misconduct Cases

Humberto Moreno (P)

2:00-2:15 pm

Effects of Collective Memory on "La Marcha" of 1966 and the 3 Women Who Lived It

Mark Anthony Esparza (P)

2:20-2:35 pm

Photovoice Investigation on the Sources of Failure Amongst High-Achieving Latina Undergraduate Students

Yolanda Rey Carlos

2:40-2:55 pm

UC Espino B

Room Moderator: Dr. Ryan Luna

The Role of Soil Type and Grazing Systems in Shaping Desert Grassland Ecosystems

Ty Goodwin (B)

2:00-2:15 pm

Spatial Ecology of Aoudad and Mule Deer: Responses to Population Management Efforts

Andrew Dotray (B)

2:20-2:35 pm

Grassland Habitat for Pollinators Under Various Mowing Regimes at Fort Davis National Historic Site

Eliana Dykehouse (P) (B)

2:40-2:55 pm

UC Espino 210

Room Moderator: Dr. Carl Igo

Empowering All Learners Enhancing Math Accessibility Through Universal Design for Learning

Yulissa Fuentes (N), Adrian Estrada (N)

2:00-2:15 pm

Exploring Mycorrhizal Dynamics: A Comparative Analysis of Rotational v. Continuous Grazing Systems

Asia Cornelius (B)

2:20-2:35 pm

Equine Industry Professionals Attitudinal Differences Toward Horse Gender

Payton White (P)

2:40-2:55 pm

Celeste De La Rosa

From Father-Daughter Bonds to Coach-Athlete Dynamics: Exploring Female Athletes' Interpersonal and Intrapersonal Relationship Connections

Jesse Ellgren (P) (B)

Transboundary Occupancy of the American Black Bear: Implications for Metapopulation Dynamics Between the U.S. and Mexico

Cesar Garza (B)

Mitigating the Effects of Temperature Extremes to Aid Native Seed Germination

Shelby Green

Texas Tortoise's Movement Patterns Across the Chaparral WMA

Jennifer Gutierrez

From Childhood to College: Coping with Parental Mental Illness and Attachment Challenges in a Rural Setting

Will Massa (B)

Livestock Tank Forage and Cover for Migratory and Wintering Grassland Birds in the Trans-Pecos

Eliana Mata

I'm Only Human: Investigating the Challenges that Female D2 College Athletes Undergo on Seeking Mental Health Services

Sofia Molinar

Learning Law, Learning Bias? Implicit Associations Among Criminal Justice Majors

Gannon Moore

Big 12 Collectives & How They Have Affected the Transfer Portal

Jailyn Alexis Moore

Investigating the Integration of Humanistic Ideals and Christianity on Performance and Personal Excellence for Collegiate Athletes

Aubrey Nall

Vertebrate Paleontology Methods in the Laboratory and Field: A Title III Internship

Ana Sanchez

What Happens When College Feels Like Chaos? Stress and Coping in Students with BPD Symptoms

Baylene Silva (M)

Leafing Stress Behind: A Root-iful Journey into Indoor Plant Therapy

Team for Psychology: Alan Bernal, Nancy Hernandez, Mary Pippen, Grethel Valdes

Fostering Community Engagement Through Service Learning: Interdisciplinary Perspectives on a Low-Cost, High Yield Student Project

UC Espino A

Room Moderator: Dr. Christopher Herrera

How Does Physical Activity Impact Older Adults in Reducing Fall Rates and Facilitating Faster Recovery

Jimena Proaño

4:00-4:15 pm

Examining the Complex Relationship Between Sleep, Health, and Academic Performance in College Students

Ariana Escalante (M)

4:20-4:35 pm

Structural Analysis of Boquillas Canyon Fault, Big Bend National Park, Texas

Carissa Chambers (P)

4:40-4:55 pm

UC Espino C

Room Moderator: Dr. Kris Jorgenson

Foundation of Small Business

Jacob Morales (P)

4:00-4:15 pm

A Preliminary Assessment of Diet, Taphonomy, and Spatial Patterning Using Faunal Remains Recovered From Surprise Rockshelter

Bailey Larremore (M)

4:20-4:35 pm

UC Espino B

Room Moderator: Dr. Ryan Luna

Outcompeting the Invader: Enhancing Native Species In Lehmann's Lovegrass (*Eragrostis lehmanniana*) Dominating Rangelands

Andres Solorio Pulido (B)

4:00-4:15 pm

Using Satellite Imagery to Estimate Carrying Capacity of Bighorn sheep on Elephant Mountain Wildlife Management Area

Hailey Barton (B)

4:20-4:35 pm

Comparing Presence/Absence Methods For Detecting Montezuma Quail

Curtis Martin (B)

4:40-4:55 pm

UC Espino 210

Room Moderator: Dr. Thor Larson

Explaining the Relationship Between Elevation and Gut Microbiome Diversity of the Crevice Spiny Lizard (*Sceloporus poinsettii*) in The Christmas and Davis Mountains

Thomas Levrie (P)

4:00-4:15 pm

La Catedral: A Brief Explanation of a Guitar Masterwork

Nicolas Westerlink

4:20-4:55 pm

5:00 - 5:55 PM

SYMPOSIUM STUDENT ORAL PRESENTATIONS

UC Espino A

Room Moderator: Dr. Joseph Velasco

Ergodic Literature
Salisa Wellenreuther
5:00-5:15 pm

Synesthesia
Sadie Cardwell
5:20-5:35 pm

Ostriches
Tresean Hardy
5:40-5:55 pm

UC Espino B

Room Moderator: Carolyn Barrientes

Architectural Design and Home Planning
Elizabeth Rodriguez
5:00-5:15 pm

From Textbook to the Workforce:
Architecture and Construction at Sul Ross
Sebastian Whitten
5:20-5:35 pm

2025

SCHOLARSHIP & GRANT PROGRAMS

McNair Scholars Program (M)

www.sulross.edu/mcnair-scholars-program/

The McNair Scholars Program is a federal TRIO program funded at 206 institutions across the United States and Puerto Rico by the U.S. Department of Education. It is designed to prepare undergraduate students for doctoral studies through involvement in research and other scholarly activities. McNair participants are either, and have, demonstrated strong academic potential. The goal of the McNair Scholars Program is to increase graduate degree awards for students from first-generation low-income families.

Noyce Scholars en la Frontera (N)

sites.google.com/view/srsunoyce/home

The Noyce Scholars en la Frontera aims to increase the pipeline of highly-qualified STEM teachers by 10% to serve in high need school districts located on the Texas-Mexico border. The SRSU Noyce Scholars Program Provides: Noyce Scholarships: 16 preservice teachers will be provided with a scholarship of up to \$24,002 a year for two years, mentoring, professional development workshops, high School and middle school STEM club support. Noyce Scholars must commit to teach in a high need public school for 2 years within a 6 year period following graduation.

SRSU Title V PPOHA AGP & AAO Graduate Fellowships (P)

www.sulross.edu/graduate-student-support-center/

Fellowships are provided by Title V PPOHA: Advancing Graduate Programs en la Frontera, which is funded in full by a United States Department of Education Title V Promoting Post-Baccalaureate Opportunities for Hispanic Americans (PPOHA) grant. Fellowship awards will be administered by Sul Ross State University, a member of the Texas State University System, located in Alpine, Texas. Fellowships offer monetary awards ranging from \$1,000 to \$3,000 per Fellow and are intended to forward opportunities for graduate students.

THANK YOU FOR YOUR CONTINUOUS SUPPORT

Office of the President

DR. CARLOS HERNANDEZ

Executive Vice President & Provost

DR. BERNIE CANTEÑS

College of Graduate Studies

DR. LAURA PAYNE, DEAN

Research & Sponsored Programs

DR. ERIC FUNASAKI, DEAN

PPOHA Grants

IDA HOELSCHER, ADVANCING GRADUATE PROGRAMS EN LA FRONTERA
ESTELLA VEGA, ACCELERATING ACCESS AND OPPORTUNITY IN WEST TEXAS

McNair Scholars Program

KATHLEEN RIVERS, MCNAIR SCHOLARS PROGRAM

SRSU Symposium Planning Committee

TIM PARSONS, TITLE V PPOHA ACTIVITY DIRECTOR

Borderlands Research Institute

Enrollment Management

Student Presenters

Aramark Catering Services

Attendees

ALPINE.DEL RIO.EAGLE PASS.UVALDE

The contents of this is developed under a grant from the Department of Education. However, they do not necessarily represent the policy of the Department of Education and you should not assume endorsement by the Federal Government.

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