

FRIDAY, MARCH 29, 2024

MARTHA T. NESBITT BUILDING, GAINESVILLE CAMPUS

9:00 - 10:00 AM

PANEL A: CULTURE, LANGUAGE AND VALUES IN EAST ASIA

Nesbitt Room 3201 | Moderator: Destani Fountain

DEATH FROM OVERWORK IN JAPAN AND THE ROOTS OF THE CULTURAL VALUES THAT LEAD TO IT Alexander Howell

COLLOCATIONAL PREFERENCES OF THE BA 把CONSTRUCTION IN MANDARIN: A CORPUS ANALYSIS OF VERBAL, PREPOSITIONAL, NOMINAL AND MEASURE WORD USES

Taylor Berry, Mentor: Dr. Micah Corum

PANEL B: FAITH, HISTORY AND THE AMERICAN SOUTH

Nesbitt Room 3204 | Moderator: Emilyn Slemons

COL. PRICE AND HIS CHURCH: CONNECTING FAITH, EDUCATION, AND THE LOST CAUSE IDEAL Reagan Smith, Mentors: Dr. Ana Pozzi-Harris & Dr. Elissa Ferguson

PROTESTANT FOUNDATIONS: HOW CHURCH FORMATIONS EXEMPLIFIED MILITARY SCHOOL IDEOLOGY AT NORTH GEORGIA COLLEGE AND STATE UNIVERSITY (UNG) FROM ITS FOUNDING UNTIL THE 1960S

Stephanie McBride, Mentors: Dr. Ana Pozzi-Harris & Dr. Elissa Ferguson

9:00 - 10:00 AM

PANEL C: LEADERSHIP, VALUES AND VIRTUES

Nesbitt Room 3212 | Moderator: Carson Teems

THE EFFECTS OF CONFLICT AVOIDANT LEADERSHIP ON TEAM DYNAMICS

Jenna Wesson, Mentor: Dr. Jie Guo

UNRAVELING LEADERSHIP AND COMMUNITY: A STUDY OF GREEK VIRTUES IN THE ODYSSEY

Anna Rundbaken

10:00 - 11:00 AM

PANEL D: PERSPECTIVES ON LITERATURE, ART, AND HISTORY

Nesbitt Room 3107 | Moderator: Dr. Ana Pozzi Harris

BINARIES, SPECTRA, AND UNITY: POSTGENDERISM AND THE PAINTINGS OF HILMA AF KLINT Whitney Little

J.D. SALINGER'S NARRATIVE STYLE ACROSS SELECTED SHORT STORIES AND ITS IMPACT ON THE MEANING OF "TEDDY"

Zoie Brown

LEGACIES OF MISSIONARY TECHNIQUES FROM AFRICAN EXPEDITIONS

Timothy Beauchamp, Mentor: Dr. Walter Lorenz

PANEL E: NOVEL METHODOLOGICAL APPROACHES IN STEM

Nesbitt Room 3201 | Moderator: Dr. David Patterson

INSTABILITIES IN UNDERGROUND HYDROGEN STORAGE

David Olsen, Mentor: Dr. Patrick Bunton

ANALYTICAL DETERMINATION OF IRON AND MANGANESE CONCENTRATIONS IN NORTH GEORGIA WELL WATER VIA TOTAL REFLECTION X-RAY FLUORESCENCE

Riley Rowland

FROM DARKNESS TO LIGHT: A QUALITATIVE ANALYSIS OF THE EFFICACY OF BLUESTAR® ON CERAMIC TILES

Cara (CJ) Giordiano and Madison Harner

10:00 - 11:00 AM

PANEL F: NEW MEDIA AND SOCIETY

Nesbitt Room 3204 | Moderator: Tiffany Tran

INTO THE INCELOSPHERE: APPLICATIONS OF CONCEPTUAL METAPHOR TO DECONSTRUCT INCEL

LANGUAGE

Julianne Branham, Mentor: Dr. Micah Corum

THEORETICAL BASIS FOR USING INTERACTIVE METRONOME™ IN SUBSTANCE USE DISORDER REHABILITATION

Danica Barron, Mentor: Dr. Troy Smith

PANEL G: LABOR MARKETS AND COMPENSATION

Nesbitt Room 3212 | Moderator: Dr. Rana Gautam

THE GROWTH OF THE INTERNSHIP

CJ Ryan, Mentors: Prof. Michele Ruby & Dr. Joel Potter

SALARY DETERMINANTS IN A MONOPSONISTIC LABOR MARKET: THE CASE OF MAJOR

LEAGUE BASEBALL DURING THE DEADBALL ERA FROM 1901-1919

Katherine Woodrough, Mentors: Dr. Justin Ehrlich, Syracuse University, and Dr. Joel Potter

UNINFORMAL METHOD FOR INFLUENCING PROPERTY RIGHTS ASSIGNMENTS: THE

CASE OF NBA PLAYER TRADER DEMANDS

Garrison King, Mentor: Dr. Joel Potter

11:00 AM - 12:00 PM

PANEL H: MARGINALIZATION OF VULNERABLE POPULATIONS

Nesbitt Room 3107 | Moderator: Dr. Victoria Hightower

THE SEXUALIZATION AND MISREPRESENTATION OF NATIVE AMERICAN WOMEN: 1920-2020 Christina Whitlock

SUBJUGATED TO THE SUBHUMAN: THE RIGHTS OF THE UNHOUSED AND THEIR ENCAMPMENT IN PAOLO BACIGALUPI "THE WINDUP GIRL"

Andrew Moreshead

11:00 AM - 12:00 PM

PANEL H (CONT.): MARGINALIZATION OF VULNERABLE POPULATIONS

Nesbitt Room 3107 | Moderator: Dr. Victoria Hightower

DISCRIMINATION IN DEATH ROW: HOW IT SHOWS WITH SEX AND RACE

Heana Lim

PANEL I: GENDER, GENDER ROLES AND SOCIAL EXPECTATIONS

Nesbitt Room 3201 | Moderator: Dr. Jeanelle Morgan

THE EXTREMES AND CRITIQUES OF GENDER ROLES IN FILMS

Julio Anaya

STAY-AT-HOME DADS

Grace Haag

PANEL J: SPANISH LANGUAGE LITERATURE AND FICTION

Nesbitt Room 3204 | Moderator: Jorge Romero

SIRENA DEL RÍO Y LA TEORIA DEL CUENTO

Maria Jose Lopez Vincero

UNA VOZ QUE EXISTE: AN ANALYSIS OF MICROFICTION IN THE 21ST CENTURY

Ruth Moreno Carpio

PANEL K: BODY AND MIND

Nesbitt Room 3212 | Moderator: Dr. Zachary Ellison

SENSORY ROOM

Susannah Hooton

CAN MINDFUL SELF-COMPASSION LESSEN THE IMPACT OF SOCIAL MEDIA USE ON MENTAL

HEALTH?

Ariana Harvey, Mentor: Dr. Shelley Aikman

12:00 - 1:00 PM: POSTER SESSION #1

- 1. An Investigation into the Hegemony of the US Dollar in Recent Years as Threats of a Proposed BRICS Currency Persist | **Jenna Gardner**. Mentor: Dr. Ruohan Wu
- 2. How has marianismo as an ideology dictated norms for Mexican women within the political arena? | Jorge Romero
- 3. The Significance of Woodblock Prints and Other Forms of Propaganda in a Hypothetical East Asian Imperialism Museum | **Thorin Beard.** Mentor: Dr. Sung Shin Kim
- 4. Lasers are cool but are they better? A comparative analysis of surveying techniques | Madison M. Rollins. Mentor: Dr. Jacob Bateman McDonald
- 5. The N-Back Task: What Does It Measure? | Ashley Bellamy, Kathleeen Colletta, Isabelle Harrel, and Elizabeth Hoyer. Mentor: Dr. Tyler Harrison
- 6. Isolation and Characterization of *Mycobacterium smegmatis* Phage Landor | **Audrey Nesbit.**Mentor: Dr. Alison Kanak
- 7. A Preliminary Analysis of Bovid Mesowear Data from East Turkana (Northern Kenya) from 2.0-1.4 Million Years Ago: Implications for Pleistocene Hominin Environments | **Jake Gardner**.

Mentor: Dr. David Patterson

- 8. Effects of Rotational Grazing on Soil Health and Forage Quality on a Microdairy in Dahlonega, Ga. | **Anna Cronan**. Mentor: Prof. Jessy Patterson
- 9. Eco-friendly Synthesis of Silver Nanoparticles using Ascorbic Acid and its Optical Characterization | **Briana Andronicescu.** Mentor: Dr. Bhawani Sigdel Regmi
- 10. Perinatal Carbaryl Exposure Differentially Alters Nicotine-mediated Locomotor Behavior in Adolescent and Adult Mice | Lauren Gately. Mentors: Dr. Abby Meyer and Dr. Wei-Lun Sun
- 11. Investigating the Cytotoxicity of Bacteriophage Cepens Genes in Host Mycobacterium Smegmatis | Alexis McCarty. Mentor: Dr. Alison Kanak
- 12. Using MNE, python-based package, to create a pipeline for EEG data analysis | Eddie Ramirez.
- 13. The Computational Study of Neurological Binding Affinity of Cocaine | **Dominique Cunningham and Hasten Veal.** Mentor: Dr. Rosi Gunasinghe
- 14. Mathematical Model of Tumor Growth | **Sebastian Chu and Muhammad Woday.** Mentors: Dr. Alla Balueva and Dr. Piotr Hebda
- 15. Native American Assimilation through Buffalo Bill's Wild West | William Ward. Mentor: Dr. Clay Ouzts



12:00 - 1:00 PM: POSTER SESSION #1

- 16. The Effects of E-cigarette Exposure on Lung Histology and the Immunolocalization of Angiotensin Converting Enzyme 2 (ACE-2) in the Common House Mouse, Mus musculus | Robert Keenan, Josie Ayers, Daleana Reyes Alejo, and Tristyn Le. Mentor: Dr. Cathy Whiting
- 17. Memories from a Disaster: Importance of Close Relationships in Japan | Susana Olivo Sandoval
- 18. History of Palestinian Embroidery | Samson Larsen
- 19. How Art Was Used as Indirect Propaganda During the First World War | Ariana Mohr
- 20. The Impact of Artificial Intelligence in Education | Michaela Lucina. Mentor: Dr. Lu Xu
- 21. Identification of *Vibrio spp.* Toxin Production in Oysters (*Crassostrea virginica*) from Georgia's Coast | **Jessica Howard.** Mentors: Dr. Dobrusia Bialonska, Dr. Paul Johnson, and Dr. Nancy Dalman
- 22. Prison Overcrowding | Jessica Doan
- 23. How the persecuted become the persecutors, and how its legacy is seen in modern America | Samuel Harwood
- 24. Perceived Acceptability of Violence Against People with Different Gender Expressions | Chloe Wilson and Alex Jordan
- 25. Emerging Adult Sexting Behavior and Sexual Behavior | Nancy Shafer, Eduardo Velazquez, Naydelin Trejo Martinez, and Sabrina Boggs. Mentor: Dr. Efren Velazquez
- 26. Analyzing Avoidance of Healthcare among Emerging Adults | Christian Dale, Sabrina Boggs, and Naydelin Trejo Martinez. Mentor: Dr. Efren Velazquez
- 27. Predictive Policing Algorithms: How Do They Affect Prison Sentencing and When Do They Fail? | **Arpit Mittal.** Mentor: Dr. Tanya Bennett
- 28. Investigating how Autonomy and Maternal Influence Affect Disordered Eating Behaviors | Rosemary Beck. Mentor: Dr. Amanda Halliburton
- 29. Why Do Individuals Choose to Precrastinate? Discovering the Motivational Drivers of Precrastination | **Svetlana Teterina**. Mentor: Dr. Inchul Cho
- 30. Reviewing the Recidivism Rates Between the United States and Norway Based on Their Varying Prison Systems | Faith Burns
- 31. Attachment, Traits and Reward Processing | Danica Barron, Mentor: Dr. Diane Cook



1:00 - 2:00 PM

PANEL L: EXAMINING THE TRIUMPHS AND TRAGEDIES OF THE 20TH CENTURY

Nesbitt Room 3107 | Moderator: Dr. Brynna Quarles

INSTITUTIONALIZED CORRUPTION: CHAEBOL RESILIENCE DESPITE ECONOMIC DEMOCRATIZATION ATTEMPTS

Jessica Woods, Mentor: Dr. Dae-oup Chang, Soagna University

THE PRESIDENCY AND LABOR: A POLICY OF PRAGMATISM

Marshall VandenOever, Mentor: Dr. Erin Bush

PANEL M: SENTENCING, PRISON LIFE, AND THE CRIMINAL JUSTICE SYSTEM

Nesbitt Room 3204 | Moderator: Ethan Belisle

PHYSICAL AND MENTAL HEALTH IN RELATION TO BEHAVIOR AND OVERALL WELL-BEING OF INMATES

Allie Holbrook

THE RELATIONSHIP BETWEEN CAPITAL PUNISHMENT AND DETERRENCE THEORY

Ella DeVries

THE STATE OF SENTENCING: EXAMINING THE DISPARITY OF MALE AND FEMALE SENTENCES

Brandon Kilby, Mentor: Dr. Stu Batchelder

PANEL N: PLACES AND PERSPECTIVES

Nesbitt 3212 | Moderator: Maci Tucker

ACTIVISM AND ADVOCACY FOR APPALACHIA: THE WOMAN WHO DEVELOPED APPALACHIAN STUDIES

Emilyn Slemons, Mentor: Dr. Barry Whittemore

TIME AND PLACE: TEMPORALITY AND DIASPORA IN JIA QING WILSON-YANG'S SMALL BEAUTY Bethany Adams, Mentor: Dr. Cameron Crawford

TOUCHING THE UNTOUCHED: TOUCH AND AFFECT IN ARUNDHATI ROY'S THE GOD OF SMALL THINGS

Rebecca Payne, Mentor: Dr. Cameron Crawford

2:00 - 3:00 PM: POSTER SESSION #2

- 1. Detection of antibiotic resistant genes in northeast Georgia water | **Noemi Leal-Lara, Michelle Vo, and Shreyas Somashekar**. Mentors: Prof. Margi Flood, Dr. Jeanelle Morgan, and Dr. Swapna Bhat
- 2. Copy number variations in AKAP11 in patients diagnosed with bipolar I disorder associated with misfolding of protein and inability to bind to GSK3b | **Shabnam Rezai**. Mentor: Dr. Neal Lin
- 3. Exploring potential threats of antibiotic resistance in *Vibrio. spp* isolated from oysters on Georgia's coast

 | Alyssa Pold. Mentors: Dr. Dobrusia Bialonska, Dr. Paul Johnson, and Dr. Nancy Dalman
- 4. Effects of xanthotoxin on parasitoid-host systems in generalist herbivores *Trichoplusia ni* and *Chrysodeixis includens* parasitized by *Copidosoma floridanum* | **Wyatt McManus**, **Rediate Degu**, **Kaitlyn Timmons**, and **Eamon McDaniel**. Mentor: Dr. Evan Lampert
- 5. Risk Factors for Flea Infection for a Canine Population in Commerce, GA | Clare Garcia.

 Mentor: Dr. Evan Lampert
- 6. Immunolocalization of Two Inflammatory Chemicals (IL-1 and IBA1) in the Brain Tissue of Mice Exposed to E-Cigarettes | Jessica Cisneros Lerma, Adrian Kim, and Dominique Cunningham. Mentors: Dr. Cathy Whiting and Dr. Abby Meyer
- 7. Computational modeling, synthesis and enzymatic assay of terpenoid, phenol, and benzaldehyde derivatives as tyrosinase inhibitors | Dorothea Tecar, Kaitlyn Vick, and Hailey Pruitt.
 Mentors: Dr. Nicole Hollabaugh and Dr. Brynna Quarles
- 8. Elucidating the Effects of Artificial Lighting on African Mammal Behavior | **Lillian Hayes and Atticus Tomcho.** Mentor: Prof. Jessy Patterson
- 9. Evaluating the chronological distribution of late Pleistocene fossil-bearing localities in southeastern North America | Mary Dickens. Mentors: Dr. Christopher Seminack, Dr. Alfred J. Mead (GCSU), and Dr. David Patterson
- 10. Refinement of behavioral and locomotive data acquisition in caterpillars, through Python programing and 3D modeling software | Dylon Quiros and Giuseppe Casella. Mentors: Dr. Erin Barding, Dr. Margaret Smith, and Dr. Ryan Shanks
- 11. A preliminary evaluation of deer body size trends across Georgia | Michael Cole Carter and Sarah Holgate. Mentors: Dr. David Patterson, Dr. Erin Barding, and Dr. Michael Bender
- 12. Investigating the Effects of Urban Watershed Hydrology on Hybridization Rates | Rachel Boyer, Madison Callas, Lindsey Currie, Ryan Edge, and Madison Shiery. Mentor: Dr. Andrew Taylor
- 13. The University of North Georgia Herbarium: Preserving the Flora of North Georgia for Conservation and Teaching Purposes | Catherine Cook, Alicia Rodriguez, Debbie Carranza, Yalda Najafi, and Oneika Bigby



2:00 - 3:00 PM: POSTER SESSION #2

- 14. Ion Channels as Targets for Parasiticides: A Brief Review of Past, Present, and Future Directions | Mallory Mendenhall. Mentor: Dr. Josette Ricker
- 15. Zeolitic Imidazolate Framework Materials for Removal of Dye Pollution from Water | Tyler Simpson
- 16. Life Insurance Trends Pre- and Post-COVID-19: Insights from the Survey of Consumer Finances | **Kevin Terry**. Mentor: Dr. Ning Wang
- 17. The Star-Child: Adolescent Boyhood as Gender | Jackson Owen
- 18. Inflation 2023-2024 in Athens-Clarke and Oconee Counties, Georgia | **Abby Pickle** Mentors: Dr. Kelly Manley and Dr. Yongseung Han
- 19. Individual Difference Factors and Social Behavior | Ashleigh Sargent. Mentor: Shelley Aikman
- 20. George C. Spence, Sr.: The Man Who Would Profit from the Proposed Roswell Dam | Jennifer Hardy
- 21. Oral Histories of Enslaved Lifeways in the South Carolina Lowcountry | Lauren Bowman. Mentor: Dr. Robin O'Day
- 22. Fannie Harrell's Diary as a Representation of Women's Leisure in the Early Twentieth Century | **Asa Conroy**. Mentor: Dr. Melissa Schindler
- 23. Investigating the Use of Metacognitive Strategies in Reading Primary Scientific Literature | Sarah Miller. Mentor: Dr. Miriam Segura
- 24. How do researchers measure precrastination?: A literature review | **Steven Wilson**.

 Mentor: Dr. Inchul Cho
- 25. The Details are []: Connections Between TPAjax and PBSuccess | **David Revering.**Mentors: Dr. Tamara Spike and Dr. Victoria Hightower
- 26. Comparing the Mismatch Negativity of Musicians and Nonmusicians in a Melodic Memory Task | Christian Dale. Mentor: Dr. Troy Smith
- 27. For the Greater Good: The Concept of Necessary Evil in Horror Fiction | Herbert Thomas
- 28. Deciding on Sexting? Emerging Adult Risky Sex and Sexual Intention | **Eduardo Velazquez**, **Naydelin Trejo Martinez**, **Christian Dale**, **and Nancy Shafer**. Mentor: Dr. Efren Velazquez
- 29. Investigation of Rechargeable LED Lamp Circuitry Using Solar Power | Cayla Scott and Lillianna Marcum. Mentor: Dr. Ted Forringer
- 30. AI effect on UX design | Matt Gallups



CURCA would like to thank the following UNG students, faculty, and staff for making ARC 2024 possible:

The CURCA Administrative team: Diogo Pinheiro, Allison Grundel, Dawid Zajac, and Maci Tucker

Sarah Grace Glover, Allison Galloup, and the UNG libraries

ARC Planning Committee and Moderators:

Tyler Hagy, Tiffany Tran, Steffani Pass, Destani Fountain, Emilyn Slemons, Carson Teems, Jorge Romero, Ana Pozzi-Harris, Brynna Quarles, Ethan Belisle, Maci Tucker, Zachary Elison, Rana Gautam, Jeanelle Morgan, Julianne Reynolds, Lillie Holtzclaw, Victoria Hightower, David Patterson, Diogo Pinheiro (Chair)

ARC Best Paper and Best Poster Committee:

Diogo Pinheiro, Victoria Hightower, Matthew Horton, Alla Balueva, Ghulam Hasnain, Andrew Taylor

ARC Reviewers:

Rana Gautam, Andrew Jakiel, Brynna Quarles, Bibek Chand, Elissa Ferguson, Abby Meyer, Ghulam Hasnain, Matthew Horton, Michael Lanford, Alla Balueva, Rahul Shahni, Johanna Luthman, Evan Lampert, Efren Velazquez, Tony Zschau, Zachary Elison, Bhawani Sigdel Regmi, Cenate Pruitt, Bryan Dawson, Raphael Palermo dos Santos, Sam Rohrer, Tiffany Kearney, Victoria Hightower, and David Patterson

