

University of South Carolina Aiken

12 April 2024

Schedule of Events

<u>Poster Sessions – Student Activity Center Gym</u>

Poster Hanging - 9:00 am - 10:00 am

Session 1 (odd numbers) - 10:00 am - 11:30 am

Poster Hanging - 1:00 pm - 2:00 pm

Session 2 (even numbers) – 2:00 pm – 3:30 pm

<u>Humanities Oral Sessions – SAC Mezzanine</u>

Session 1 - 10:00 am

Session 2 – 2:00 pm

<u>Honors Symposium Session – SAC Mezzanine</u>

Session 1 - 3:15 pm

Humanities Oral Sessions - SAC Mezzanine

<u>Session 1 – 10:00 am – 11:15 am</u>

10:00-10:15 Exploring Race and Gender Via Film: Pushout as an Example

Robert John Kamphaus, Jr. mentored by Dr. Melencia Johnson

10:15-10:30 Girl Hood: The Tale of Two Girls' Delinquency

Jon'tasia Ford mentored by Dr. Melencia Johnson

10:30-10:45 Exploring Positive and Negative Parental Attachment and Its Effect on Rehabilitation Through Girlhood

Ryan Goldman mentored by Dr. Melencia Johnson

10:45-11:00 Exploring Acceptance/Belonging and Authority/Power: An Analysis of Honeytrap (2014)

Kirsten Davis mentored by Dr. Melencia Johnson

11:00-11:15 Exploring Gang Affiliation and Peer Influence: An Analysis of Honeytrap

Peyton Reece Theuerl mentored by Dr. Melencia Johnson

Session 2 - 2:00 pm - 3:00 pm

2:00-2:15 South Carolina Through the Revolutionary War: A Digital Humanities Project

Addisen Alvanos and Kaylie Lewis mentored by Dr. Todd Hagstette

2:15-2:30 The Golem's Journey in Chabon's *The Amazing Adventures of Kavalier & Clay*: A Digital Humanities Project

Rachel Eubanks mentored by Dr. Matt Miller

2:30-2:45 Trail of Bones: Hauntology and Determinism in Cormac McCarthy's Blood Meridian

Hunter Martin mentored by Dr. Julie Wise

2:45-3:00 Got Milk?: Tiller's Mommy Issues in Chang-Rae Lee's *My Year Abroad*

Aybrianna Williams mentored by Dr. Matt Miller

<u>Honors Symposium Session – SAC Mezzanine</u>

<u>Session 1 – 3:15 pm – 4:15 pm</u>

3:15-3:30 Fathers Early Caregiving Intentions and Later Child Reports on Their Involvement

Katelyn Danner mentored by Bridget Cho

3:30-3:45 An Assessment of Running Position Across Four Conditions

Logan G Scruggs mentored by Andrew Hatchett

3:45-4:00 Early Life Adversity, Parental Anger, and Child Psychopathology

Hannah Olivia Waterman mentored by Brianne Coulombe

4:00-4:15 Hyacinths and Liar's Sins - How the Immaterial and Material Haunt Each Other in T.S. Eliot's "The Waste Land"

Nicholas Conan Riveglia mentored by Julie Wise

<u>Poster Sessions – Student Activity Center Gym</u>

Poster 1 - Analyzing the effect of BimL overexpression on HeLa cell viability
Holly A Taylor mentored by William Jackson

Poster 2 - Integrating observations of Alleghanian plutonism, thrust faulting, lithospheric delamination, and the final closure of the Rheic Ocean in the Carolinas and Georgia

Anthony Anderson mentored by Allen Dennis

Poster 3 - Cloning Pro-Apoptotic PUMA Into A HIV-Dependent PlasmidVivica Tamia Birt mentored by William Jackson

Poster 4 - What's up with these eggs?: A closer examination of unhatched eggs in Eastern Bluebirds

Mary Elizabeth Beard mentored by Michelle Vieyra

Poster 5 - Investigating the effect of NHP6A protein on mPing transposition in yeast

Kaili Renken mentored by C. Nathan Hancock

Poster 6 - Exercise and ADHD

Triniti Kelly mentored by Brian Parr

Poster 7 - Developing hyperactive cargos for targeted mPing insertion Madison Lynn Hamlin mentored by Nathan Hancock

Poster 8 - Exercise and Parkinson's Disease: A Review of the LiteratureWilliam Cruz Kizer mentored by Brian Parr

Poster 9 - Analysis of Cas9 targeted *mPing* **insertion in yeast** Megan Collins mentored by C. Nathan Hancock

Poster 10 - Effects of Memes on Political Misinformation BelievabilityShawn Forth mentored by Amanda Waymer

Poster 11 - Investigating Transposition Activity: Functional Analysis of the Zea maize Mariner 20 element

Keith J Nelson mentored by Charles Hancock

Poster 12 - Adolescents' Perceptions of the Impacts of Venting in their Virtual Social Circle

Sakura Suri mentored by Amanda Waymer

Poster 13 - Modular Blogging Platform

Scott Rostron, Austin Walter, Onan Chew mentored by Amanda Warren

Poster 14 - Drinking in Jim Crow Graniteville

Carson Perry Umbarger mentored by Heather Peterson

Poster 15 - Double Trouble: Age of Death in Aiken and Charleston in 1940Cindy Lin mentored by Andrew Dyer

Poster 16 - Vietnam Veterans Oral History Project: From Aiken to the Library of Congress

Luke Aldridge mentored by Sarah King

Poster 17 - Cardiovascular Deaths Among Men and Women: Age at Death

Emilee Sue Schiffhauer mentored by Andrew Dyer

Poster 18 - Equine Assisted Psychotherapy: An Experimental Therapy

Sam Keats mentored by Bridget Cho

Poster 19 - Child mortality in pre-antibiotic vs antibiotic era

Kya Dye mentored by Andy Dyer

Poster 20 - Hearing Color: Usability in Sonification

Madison Coffman mentored by William Johnson

Poster 21 - Color Wars: Average life span of women of color in 1930's & 1970's Jasmine Kitchings mentored by Andrew Dyer

Poster 22 - Diversity & Degree Status, Career Defining or Career Limiting: Studying the Impact of Racial Background & Education Level on Career Aptitude

Myliyah Bogans, Nkosi Gaddy, Dalton Graves, Tyler Johnson, Rylee Knox, Reagan Leonard, Mika Mayo, Johneisha McWilliams, Gemma Osbon, Olivia Pall, Jayla Richardson, Abigail Walton mentored by Carl Ciccarelli

Poster 23 - Knocking Out Pneumonia: A Fight Against Flu and Pneumonia Related Deaths

Melissa Cheadle mentored by Andrew Dyer

Poster 24 - Buffalo Soldiers: Waging War on the Depiction of African AmericansChristian Reagin mentored by Heather Peterson

Poster 25 - Death is a Killer: The Average Age at Death of Adults in 1929 and 1955. Mallory Skinner mentored by Andrew Dyer

Poster 26 - An Android App: Discrete Math in Your Hands

Soumik Debjit Mitra mentored by Rao Li

Poster 27 - Cardiovascular Disparities: Age of death of African Americans vs Whites in the 1920s and 1960s.

Sheena JaMya Stanley mentored by Andy Dyer

Poster 28 - Modular Blogging Platform

Scott Rostron, Austin Walter, Onan Chew mentored by Amanda Warren

Poster 29 - African American History, Culture, & Art: An Interdisciplinary Unit Isaiah R Gillian mentored by Deborah McMurtrie

Poster 30 - CCIA AND GEN-CYBER

Aditya Santosh Bhosle, Isaiah Ervin, Omkar Sameer Naik mentored by Hala Strohmier

Poster 31 - Teaching Students about Bi-Polar Mania

Afton Channell Smith mentored by Melissa Martin

Poster 32 - Fly Myrtle

David Gomez and Brandon Payero mentored by Hala Strohmier

Poster 33 - Attention-Deficit/Hyperactivity Disorder in Students

Kaylee Ann Little mentored by Melissa Martin

Poster 34 - ISO Requirement Similarity Tool (IRST) Prototype

Isaac Hutto, Winston Asher, Dalton Todd mentored by Halla Strohmier

Poster 35 - Implementation of technological tools in special education classrooms

McKenzie Lott mentored by Melissa Martin

Poster 36 - Assessing the Accuracy of AI Detection Tools

Tyler Green and Grant Callowat mentored by Hala Strohmeir

Poster 37 - The Effects Anxiety Can Have On Students: Under a Special Education Lense

Skylar Nicole Shirey mentored by Melissa Martin

Poster 38 - Effect of Surface Roughness and Oxidation on Contact Angle for Heat Transfer Applications

Crystal I Garcia Quinones mentored by Titan Paul

Poster 39 - Implementation of Technology in Special Education Classroom

Skylar Faith Talton mentored by Melissa Martin

Poster 40 - Effects of Mixing Time on Nanofluid Viscosity

Anthony Longobardo mentored by Titan Paul

Poster 41 - Exploring ICS/SCADA Network Vulnerabilities

Aaryan R Londhe, Brian J Kram, Ronit A Pawar mentored by Hala Strohmier

Poster 42 - Chip's Phone Safety Adventures

Jonathan Edward Walker Jr. and Jeffrey Scott Hall Jr. mentored by Amber Dobbs

Poster 43 - Assessing the Efficacy of Jailbreak Prompts: A Study on Content Restrictions in ChatGPT

Dylan Murzello and Yash N Dasri mentored by Hala Strohmier

Poster 44 - Comparative Study of Pressure Prop of Nanoparticle Enhanced Ionic Liquids (NEILs) with Traditional Heat Transfer Fluids (HTFs)

Truman Brabham mentored by Titan Paul

Poster 45 - Dish Antenna Positioning System

Anthony Monaco and Caleb Waldrop mentored by Neil Miller

Poster 46 - Identifying the causative mutations underlying a dwarf soybean phenotype

Sam Burns mentored by Nathan Hancock

Poster 47 - Malware Analysis

Abdur Rahman Khan mentored by Chris Clark and Hala Strohmier

Poster 48 - siRNA-mediated inhibition of HIV-1 regulatory functions

Christine Sanderson mentored by William Jackson

Poster 49 - Bold, Feminine Minds: The Fearless Women Who Shaped Mathematical History

Sam Burns mentored by Mohammed Hailat

Poster 50 - Analyzing the effect of tBid overexpression on cell death

Jadynn McMahon mentored by William Jackson

Poster 51 - SRNL Remote Manipulator in High Rad Environment

Katelyn Alexandria Wilhite, Damian Whitt, Anouch Thomas James Wherle, Crystal Ivette Garcia Quinones mentored by Bethany Fralick

Poster 52 - Testing if overexpression of pro-apoptotic Bax induces cell death

Martina Louise Bryant mentored by William Jackson

Poster 53 - Improved Removal System for Strip Effluent Coalescer Media

Anthony Longobardo, Marvin Valentine, Zachery Wilson mentored by Bethany Fralick

Poster 54 - Determining the role of phf21aa and phf21ab in model for Potocki-Shaffer Syndrome in Zebrafish

Day'Lyn McKinnis mentored by April DeLaurier

Poster 55 - Submersible Transfer Pump Selection for SRMC Radioactive Waste Tanks

Michelle Corral, Zachary Woody, Cameron Huston mentored by Bethany Fralick

Poster 56 - Determining the role of tbx5a and tbx5b in development of zebrafish

James Harry Saxon IV mentored by April DeLaurier

Poster 57 - DWPF Off-Gas Flammability Study

Travis Farrell, Clay Beam, Isaiah Carbajal, Adam Krissinger mentored by Bethany Fralick

Poster 58 - Determining the role of Hdac1, Kdm1a, and Zmym2 in development of zebrafish

Sophia Danielle Ready mentored by April DeLaurier

Poster 59 - Security Awareness in Higher Education

Dakota Jones, Maggie C Heinbaugh, Caroline N Peace mentored by Chris Clark

Poster 60 - Influenza Deaths Among Men and Women: Age at Death in Greenville and Hampton Counties

Allison Green mentored by Andrew Dyer

Poster 61 - Exercise and Parkinson's Disease

Anna Grace Addy mentored by Brian Parr

Poster 62 - Sex, Race, and Infant Death

Alec J Lee mentored by Andrew Dyer

Poster 63 - Resistance Training and Cognitive Function

Kapono Lafayette mentored by Brian Parr

Poster 64 - Why do African-Americans Die Younger than Caucasians?

Caitlin Shirey mentored by Andrew Dyer

Poster 65 - The Effect of Exercise on Depressive Symptoms in Patients with Chronic Illness

Joseph E Riveglia mentored by Brian Parr

Poster 66 - Bye-Bye Bacteria: Did the introduction of antibiotics benefit everyone equally?

Me'Doña Summers mentored by Andrew Dyer

Poster 67 - The Effect of Exercise on Anxiety

Savannah Goff mentored by Brian Parr

Poster 68 - The Progress of the USC Aiken Bluebird Nestbox Trail

Quinn Schreiber, Emory Owen, Alyssa Godfrey mentored by Michelle Vieyra

Poster 69 - ST-Segment Depression in 3 lead vs. 12 lead EKG on Males and Females

Dillon Slater Wolford mentored by Chris DeWitt

Poster 70 - Exploring Issues of Privilege in Family History

Jessica Pierce Lawson mentored by Deborah McMurtrie

Poster 71 - Heading Towards Home: The Importance of the NLB and Baseball to the African American Community of Graniteville

Chesler Daniel Mathis mentored by Heather Peterson

- Poster 72 Decreasing Absenteeism and Increasing Attendance with Mrs. Bell Stephanie Bell mentored by Bridget Coleman
- **Poster 73 Asphalt Over Graniteville: Dividing a Black Community**Simon P Berry mentored by Heather Peterson
- **Poster 74 Building a Thinking Classroom in the Math Lab**Amy C Kule mentored by Bridget Coleman
- Poster 75 Outside the Family: Black Mill Workers in Graniteville Amy Herring mentored by Heather Peterson
- **Poster 76 Characteristics of Effective Nursing Preceptors**Gabrielle Hoover, Kiana Davis, Kendra Bouknight mentored by Mary Gaffney
- Poster 77 Getting Old Hurts: The average age of death in Aiken County, South Carolina in 1915 and 1960

Caden Combs mentored by Andrew Dyer

- **Poster 78 Early Rehabilitation Impact on Arthroplasty**Sheila K Torres, Savannah Dederscheck, William Eaves mentored by Mary Gaffney
- **Poster 79 How the Barbie movie affects gender expectations**Genesis M Allen mentored by Amanda Waymer
- **Poster 80 The Effectiveness of Cannabinoids in Chronic Pain Management** Avery Arico, Georgia Gray, Amaya Walker mentored by Jean Pawl
- Poster 81 Fishing App

Grant Hulland David Welcher mentored by Hala Strohmier

Poster 82 - Hospital Resource Scarcity: Clinical Decision Making: COVID-19 Pandemic

Terri Zummach, Shelby Enevoldsen, Jordan A Stovall mentored by Jean Pawl

Poster 83 - VetVoice Capstone Presentation

Hayden Comer, Aaron Karius, Jaymee Kambel mentored by Hala Strohmier

Poster 84 - Nurse Staffing and its Effects on Patient Outcomes

Jacob Nathaniel Corey, Kayla Carter, Madison P Mercer mentored by Mary Gaffney

Poster 85 - Use of Social Networks in Higher Education

Praisely Vinson, Blake Strawhorn, Jayde McKinney mentored by Hala Strohmier

Poster 86 - Incretin-based therapies and their adverse effects

Angela Calonia, Ashley Wheeler, Heidi Gyselinck mentored by Mary Gaffney

Poster 87 - Scheduling Tool Application

Sophie Rose Lyon mentored by Hala Strohmier

Poster 88 - Cardiometabolic Risk in Children

Alexandria Yger, Miranda Rose Parham, Luke Furtick mentored by Mary Gaffney

Poster 89 - Exploring Machine Learning and AI in Academia

Vincent T Langner, Fardeen Mohamed, Ethan Wood mentored by Hala Strohmier

Poster 90 - Palliative Care Effect on Emergency Department Utilization

Brett Corliss, Alyssa Buckmon, Taylor Jameson mentored by Mary Gaffney

Poster 91 -Differentiating the Role of Acetaminophen on Cognitive and Affective Pain Empathy

Tyler Robbins mentored by Laura Swain

Poster 92 - Cardiac Rehabilitation

Bridget Boyleston, Sadie Mckay, Destiny Burns mentored by Mary Gaffney

Poster 93 - Optimization of the Pong Transposase Protein

Zara Lacera mentored by C. Nathan Hancock

Poster 94 - Opioid Overdose Kit Accessibility

Carrington Brooke Harris, Kaitlyn Stone, Kinsley Mullins mentored by Mary Gaffney

Poster 95 - Understanding the effects of combined loss of tbx5a and tbx5b genes in zebrafish development

Jumanah Al-Soudi mentored by April DeLaurier

Poster 96 - Does childhood obesity contribute to the worsening of childhood asthma?

Hailey Evans, Avigai Reyes, Alyssa Hughes mentored by Mary Gaffney

Poster 97 - The Hunger Games: Child Mortality by Infectious Disease in Charleston and Baltimore Counties

Cassidy Eckles mentored by Andrew Dyer

Poster 98 - Lower Back Injuries in Nursing

Shiolin Cymia Raiford, Jessica Montoya, Morgan Holmes mentored by Mary Gaffney

Poster 99 - Accident-Prone: The correlation of accident-related deaths between sex and ethnicity.

Toby Slade Hall mentored by Andrew Dyer

Poster 100 - The Importance of Education: Graniteville and Aiken

Emma Chartier mentored by Heather Peterson

Poster 101 - Dissonant, colored heartbeats pulsing to the other world: Exploring the inequalities in white and colored child mortality during the Great Depression compared to the peak year of the economic boom of the 1940s

Charles Vazquez mentored by Andrew Dyer

Poster 102 - Dust and Scales: The Story of Adam Retold

Chesler Daniel Mathis mentored by Elizabeth Georgian

Poster 103 - Cradle to Grave: Childbirth-Related Deaths in Aiken and Charleston Before and After Modern Medicine

Victoria Fort mentored by Andrew Dyer

Poster 105 - Poverty Related Stress and Imposters Syndrome Among Young AdultsLeanna Byrnes Bryant mentored by Bridget Cho

Poster 106 - Bilinguals Influencing Bilingual Education

Jessica Ramirez-Granados mentored by Amanda Waymer

Scholar Showcase Organizing Committee:

Dr. Bill Jackson

Dr. C. Nathan Hancock

Dr. Jeremy Culler

Dr. Michele Harmon

Dr. Matthew Miller

Dr. Michelle Vieyra

Technical Assistance

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Center for Research Excellence

USCA Office of Academic Affairs