



SCHOLAR SHOWCASE

UNIVERSITY OF SOUTH CAROLINA AIKEN

14 April 2023

Schedule of Events

Capstone Art Exhibition – Etherredge Center Gallery

All day

Humanities Oral Sessions – SAC Mezzanine

1:00 pm

Honors Symposium Session – SAC Mezzanine

3:00-5:00 pm

Poster Sessions – Student Activity Center Gym

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

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

Session 2 (even numbers) – 1:00 pm – 2:30 pm

Humanities Oral Session – SAC Mezzanine

- 1:00-1:15** **Food baby: A short story**
Paige Singer mentored by Dr. Andrew Geyer
- 1:15-1:30** **Dracula from fear to fluff: Representation of the Gothic vampire**
Justise Wright by Dr. Matt Miller

Honors Symposium Talks – SAC Mezzanine

- 3:00-3:15** **Pre-existing conditions of color: Infectious disease and access to healthcare in South Carolina**
Sophie Meredith mentored by Dr. Andy Dyer
- 3:15-3:30** **Nursing instructor knowledge and teachings regarding antimicrobial resistance and antibiotic stewardship**
Rebekah Jollie mentored by Dr. Mary Gaffney
- 3:30-3:45** **Effects of nursing incivility and lateral violence in the clinical setting on nursing students' self-esteem**
Anissa Baksh mentored by Dr. Mary Gaffney
- 3:45-4:00** **Introducing isotope discovery**
Joseph Johnson mentored by Bill Wabbersen
- 4:00-4:10** **Break**
- 4:10-4:25** **A reading of "To Bethesda"**
Hunter Daniels mentored by Dr. Drew Geyer
- 4:25-4:40** **The influence of vaccine literacy on college aged students' acceptance of Covid-19 vaccines**
Ashlynn Sweat mentored by Dr. Mary Gaffney
- 4:40-4:55** **Perceptions and practice of arts education in early childhood**
Chloe Towne mentored by Dr. Tim Lintner

Capstone Art Exhibition – Etherredge Center Gallery

Artists:

Alanna Jendraszek

Brielle Bullock

Candace Amaker

Dwalyan "Dre" Bull

Jackelyn Gomez

Makala Price

Mary Lentz

Natalie Prouty

Ravyn Ce'mone Mitchell

Russell Cole Smith

Sahura Henry

Summer Haymans

Gallery Artist Talks will be 12:00 pm on April 19th

Poster Sessions – Student Activity Center Gym

Poster 1 - SRTE critical spare parts database

Doryan Broadwater and Ethan Lea mentored by Dr. Bethany Fralick

Poster 2 - Filemon game

Jamel Addahoumi mentored by Dr. Hala Strohmier

Poster 3 - Transfer pump selection for SRS liquid waste tanks

Isaiah Wells Holland and Thomas Burke mentored by Dr. Bethany Fralick

Poster 4 - Google Forms to Google Calendar scheduling add-on

Adam Buchanan and Eliyana Pearl Brown mentored by Dr. Yilian Zhang

Poster 5 - Introducing isotope discovery

Joseph Mark Johnson mentored by Dr. Bill Wabbersen

Poster 6 - Leveling up: How nation states leverage cyber ops to even the playing field

Jason Ford mentored by Dr. Halla Strohmier Berry

Poster 7 - Savannah River Nuclear Solutions digitalized procedures

Noah Vanderhoff and Rahmat Adejumo mentored by Dr. Bethany Fralick

Poster 8 - Theorizing possible criteria for affecting far-transfer in games

Michael Alexander Garland mentored by Dr. Anne Poplin

Poster 9 - Developing automation for security operations streamlining

Joshua Yates and Siddhesh Sunil Anikhindi mentored by Dr. Bethany Fralick

Poster 10 - Literature review of thermal hydraulic performance using mini-channels and various flow types

Anthony Longobardo mentored by Dr. Titan Paul

Poster 11 - Active-site residues involved in the interaction of 2,4'-dihydroxyacetophenone dioxygenase with its substrate

Zephanae Liis, Olivia Nation, and Noah Parr mentored by Dr. Kenneth Roberts

Poster 12 - Identifying optimal HEK293T housekeeping genes for qPCR

Martina Louise Bryant mentored by Dr. William Jackson

Poster 13 - Determining if the bases adjacent to the *mPing* element impact transposition

Monica Elizabeth Colon-LaBorde mentored by Dr. C. Nathan Hancock

Poster 14 - Studying the transposition mechanism of the *mJing* miniature inverted repeat transposable element in yeast

Megan Collins mentored by Dr. Nathan Hancock

Poster 15 - Cloning pro-apoptotic BimL into an HIV-dependent expression plasmid

Abigail Taylor mentored by Dr. William Jackson

Poster 16 - Controlling reporter gene expression using three HIV-1 regulatory elements

Kaitlynn Cook mentored by Dr. William Jackson

Poster 17 - ADHD medicine in the brain

Brooke Wroten mentored by Dr. Alexandra Roach

Poster 18 - Generation of desmosomal cadherin mutants in zebrafish

Conner Entzminger mentored by Dr. April DeLaurier

Poster 19 - Performance strategy: The effects of exercise in ALS patients

Marcus Bethea mentored by Dr. Brian Parr

Poster 20 - Inducing cell death in a HIV-dependent manner

Andrew P. Gregory mentored by Dr. William Jackson

Poster 21 - Close, but not close enough: Social media representations of muscularity on creatine attitudes and body image in young adult male bodybuilders

Sarah Porcha-Konjikusic mentored by Amanda Waymer

Poster 22 - A proposed study of impaired cognitive processes: The effects of sleep deprivation on memory

Kylie Alexis Haynes mentored by Dr. Alexandra Roach

Poster 23 - Attention*

Zoe Horne mentored by Dr. Alexandra Roach

Poster 24 - The impact of sustained attention tasks and acute exercises on attention

Ian M. Hoffman mentored by Dr. Alexandra Roach

Poster 25 - Surviving the Spanish Flu of 1918: Observing the shift from young to old victims 10 years later

Kalesia Allen mentored by Dr. Andrew Dyer

Poster 26 - Homology-based optimization of the *Pong* transposase protein

Zara Lacera mentored by Dr. C. Nathan Hancock

Poster 27 - A change of heart: Comparisons of the depression and boom period

Jordan Brown mentored by Dr. Andrew Dyer

Poster 28 - Analyzing histone deacetylase-1 (hdac1) and lysine (K)-specific demethylase 1A (kdm1a) mutant zebrafish

Maddison McCall mentored by Dr. April DeLaurier

Poster 29 - Little Debbie broke my heart: Heart attacks in men and women in the era of processed foods.

Alea Atkinson mentored by Dr. Andrew Dyer

Poster 30 - Cloning the eGFP gene into an HIV-dependent expression plasmid

Jadynn E. McMahon mentored by Dr. William Jackson

Poster 31 - Who knew pneumonia best: Pneumonia deaths in the 1920s and 1950s

Miles Hunter Kellems mentored by Dr. Andrew Dyer

Poster 32 - Investigating the role of RNA Polymerase V in *mPing* excision site repair

Kaili Renken mentored by Dr. C. Nathan Hancock

Poster 33 - Deaths by infectious disease in Aiken and Edgefield County in 1920

Brandon Paradise mentored by Dr. Andrew Dyer

Poster 34 - Using a dual siRNA expression plasmid to inhibit HIV replication

Christine Sanderson mentored by Dr. William Jackson

Poster 35 - Gender and mortality: A study of Edgefield and Greenville Counties

Bailey Parr mentored by Dr. Andy Dyer

Poster 36 - Identifying yeast genes that modify *mPing* transposition

Kaeleigh Seigler mentored by Dr. C. Nathan Hancock

Poster 37 - Everyone dies alone- well not everyone: The difference in access to doctors based on race

Kylee M. Wheat mentored by Dr. Andrew Dyer

Poster 38 - Cloning of pro-apoptotic Bak into pcDNA3

Ryan Anthony Tuttle mentored by Dr. William Jackson

Poster 39 - Chaos in the early 60s: Comparing accidental deaths in Lexington & Aiken counties from 1960-1965

Rebecca Dawn Brazell mentored by Dr. Andrew Dyer

Poster 40 - Testing the ability of PUMA to induce cell death in HEK293T cells

Hannah Vallejo mentored by Dr. William Jackson

Poster 41 - Death race: Comparison of pneumonia deaths in Colleton County

Kasheyonna David mentored by Dr. Andrew Dyer

Poster 42 - The effect of secularization theory

Evahnee Elise Sweeney mentored by Mr. Ron Johnson

Poster 43 - Rise and fall of infectious diseases: Deaths before and after the introduction of antibiotics

Kimara Davis mentored by Dr. Andrew Dyer

Poster 44 - Marine microfossils and estuarine health: Benthic Foraminifera from North Inlet, SC

Riley Campbell mentored by Dr. Kelly Gibson

Poster 45 - The wonders of medicine: The introduction of antibiotics to tame infectious diseases

Tanashia Jones mentored by Dr. Andrew Dyer

Poster 46 - Physical and sensory characteristics of chocolate chip cookies produced with black, brown, and white rice flour: A mixed methodology

Iris Hatchett mentored by Dr. Anne Poplin

Poster 47 - Increased inequality: Comparing men and women diagnosis pre and post 19th amendment ratification

Marcus Mastellone mentored by Dr. Andrew Dyer

Poster 48 - The effect of exercise of dementia

Ireona Brooks mentored by Dr. Brian Parr

Poster 49 - Pre-existing conditions of color: Infectious disease and access to healthcare in South Carolina

Sophie F. Meredith mentored by Dr. Andrew Dyer

Poster 50 - The affect of COVID-19 on physical child abuse

Victoria E. Deathearge, Jaden Norris and Delaney Marcuccilli mentored by Dr. Mary Gaffney

Poster 51 - A dark and depressing disaster: Age at death in young working adults in Aiken county during the mid to late great depression

Thomas S. O'Banion mentored by Dr. Andrew Dyer

Poster 52 - Nasogastric tube proper verification method

Corey Gamache, Jennifer Montoya and Ashlyn Hill mentored by Dr. Mary Gaffney

Poster 53 - The haunted homes of Aiken: Suicide rates and the Mental Health Act of 1952

Emmett J. Walden mentored by Dr. Andrew Dyer

Poster 54 - The efficacy of open vs. closed endotracheal suctioning in the occurrence of VAE
Kysha Ashley Gause, Avery Blake Reeves and Lora J. Beauford mentored by Dr. Mary Gaffney

Poster 55 - The effects of exercise on Parkinson's Disease
Micah Brewer Jr. mentored by Dr. Brian Parr

Poster 56 - Students with eating disorders in K-12 schools
Skylar Faith Talton mentored by Dr. Melissa Martin

Poster 57 - Exercise and epilepsy: A review of the literature
Alexis Brianna Washington mentored by Dr. Brian Parr

Poster 58 - Effectiveness of therapeutic targeted hypothermia post-cardiac arrest
Sophia Hoffman, Hayley Martin and Courtney Young mentored by Dr. Mary Gaffney

Poster 59 - Relationship between measured and calculated vo2 at maximal exercise
Savanna Jane Waters mentored by Dr. Chris DeWitt

Poster 60 - Medication error reduction
K. Heidi Leaden, Khanh Chu, Aliyah Marie Shealy and Cheryl Harrison mentored by Dr. Mary Gaffney

Poster 61 - Grip strength and sports performance in competitive master weightlifters
Dillon Slater Wolford mentored by Dr. Andrew Hatchett

Poster 62 - The use of early warning scores
Katherine Lewis, Persepolis Hemingway and Ashley Pierce mentored by Dr. Mary Gaffney

Poster 63 - The effect of exercise on stroke prevention and recovery
Baker W. Yarnell mentored by Dr. Brian Parr

Poster 64 - Nursing student mental health, resilience, and coping
Carmela Malin, Caroline Martin and Diavian Johnson mentored by Dr. Mary Gaffney

Poster 65 - Conscious and unconscious thoughts
Daylan Abney mentored by Dr. Alexandra Roach

Poster 66 - Pulse oximetry accuracy
Di'Auna Patrice Robinson, Lance Davidson and Laiken Corley mentored by Dr. Mary Gaffney

Poster 67 - The effect of comorbid OCD and MDD on memory
Kylie Alyssa Brady mentored by Dr. Alexandra Roach

Poster 68 - Yoga's effect on academic self-concept in high achieving high school students in respect to the student's anxiety levels: A quasi-experimental study

Emma Lynn Thompson-Landrum mentored by Dr. Anne Poplin

Poster 69 - Meditation & attention

Gabrielle Brown mentored by Dr. Alexandra Roach

Poster 70 - The effects of stress and anxiety on working memory

Rebecca Dawn Brazell mentored by Dr. Alexandra Roach

Poster 71 - Daydreaming

Amber Coleman mentored by Dr. Alexandra Roach

Poster 72 - Cognitive processes

Brenda Florido mentored by Dr. Alexandra Roach

Poster 73 - Cultural impact on the processing of visual cues

Katelyn Danner mentored by Dr. Alexandra Roach

Poster 74 - The effects of chewing gum on attention and working memory

Gracie R. Holsenback mentored by Dr. Alexandra Roach

Poster 75 - The effects of anxiety on decision making.

Loren N. Eubanks mentored by Dr. Alexandra Roach

Poster 76 - Pet the pain away: Do therapy dogs mitigate pain perception

Madison Lindsey mentored by Dr. Alexandra Roach

Poster 77 - Breaktime: On the screen or on paper?

Joshua Daniel Greene mentored by Dr. Alexandra Roach

Poster 78 - Personality's influence on false memories

Cheyenne Myers mentored by Dr. Alexandra Roach

Poster 79 - Representativeness and availability heuristic in patients with delusions

Evan M. Hutto mentored by Dr. Alexandra Roach

Poster 80 - Alcohol and memory

Finn Napier mentored by Dr. Alexandra Roach

Poster 81 - Analyzing facial emotional recognition in patients with prosopagnosia

Kenzie Kight mentored by Dr. Alexandra Roach

Poster 82 - Word length effects on memory and age

Cheyenne Navarro mentored by Dr. Alexandra Roach

Poster 83 - Repercussions of selective & divided attention

Kelsie Storey mentored by Dr. Alexandra Roach

Poster 84 - Can ADHD symptoms be linked to brain anatomy

Anna Newton mentored by Dr. Alexandra Roach

Poster 85 - Using social emotional lessons focused on social and relationship skills to improve collaboration in the 8th grade science classroom

Dawn B Valentine mentored by Dr. Bridget Coleman

Poster 86 - Attentional bias on body image

Annabelle Roever mentored by Dr. Alexandra Roach

Poster 87 - An interdisciplinary exploration of the Renaissance for middle school

Isaiah Reid Gillian and Terrance Lee Williams mentored by Dr. Deborah McMurtrie

Poster 88 - Effects of anxiety and depression on memory

Kiara Shackelford mentored by Dr. Alexandra Roach

Poster 89 - Using music to teach math in middle school

James David Walsh mentored by Dr. Bridget Coleman

Poster 90 - How color affects learning in men and women

Brittany Simmons mentored by Dr. Alexandra Roach

Poster 91 - The influence of breath training on symptoms associated with depression

Harry Lee Hill mentored by Dr. Andrew Hatchett

Poster 92 - Long-term smoking vs. memory

Arionna Singleton mentored by Dr. Alexandra Roach

Poster 94 - Hard times, good times: Homicide rates and economic fluctuations

Daniel Tyler Kvachuk mentored by Dr. Andrew Dyer

Poster 96 - Impact of social media usage on the academic performance of academically accelerated high school students

Joab Stephen Brown mentored by Mr. Ron Johnson

Poster 98 - Impact of Schizophrenia in K-12 schools

McKenzie Linn Lott mentored by Dr. Melissa Martin

Poster 100 - Gamification's effect on student attitudes

Joseph Nwachukwu mentored by Dr. Anne Poplin

Poster 102 - Impact of students with suicidal behaviors in K-12 schools

Nicholas Varda mentored by Dr. Melissa Martin

Poster 104 - The effects of tempo and valence on cognitive performance: A correlational study

Luke Vincent mentored by Dr. Anne Poplin

Poster 106 - Cheerleading stereotyping and media: A mixed method study

McKenna Hope Davis mentored by Dr. Anne Poplin



**Center for
Research Excellence**

University of South Carolina Aiken

Thank you to the following for making this day possible:

Scholar Showcase Organizing Committee

Dr. Bill Jackson

Dr. C. Nathan Hancock

Dr. Jeremy Culler

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Center for Research Excellence

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USCA Office of Academic Affairs