Armstrong Student SCHOLARS Symposium

APRIL 18–19, 2018
Student Union
Armstrong Campus
Georgia Southern University
### Wednesday, April 18, 2018

#### KEYNOTE & POSTER SESSIONS

**KEYNOTE ADDRESS**

Dr. Anastasia Lin  
**Mapping Opportunities in Undergraduate Research**  
Ogeechee Theatre  
10:30–11:30 a.m.

<table>
<thead>
<tr>
<th>Session</th>
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<tr>
<td>Functional Morphology</td>
<td>President’s Dining</td>
<td>11 a.m.–12:15 p.m.</td>
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<tr>
<td>COLA RA Panel</td>
<td>Skidaway</td>
<td>12:30–1:30 p.m.</td>
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<tr>
<td>Lunch</td>
<td>Student Union</td>
<td>11:30 a.m.–1:30 p.m.</td>
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<tr>
<td>Poster Session 1</td>
<td>Ballrooms</td>
<td>12–1:30 p.m.</td>
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<td>Poster Session 2</td>
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<td>2–3:30 p.m.</td>
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<td>Poster Session 3</td>
<td>Ballrooms</td>
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<tr>
<td>Faculty UR Workshop with Dr. Lin</td>
<td>Ogeechee Theatre</td>
<td>1:30–2:30 p.m.</td>
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<tr>
<td>Get involved! Researcher &amp; Mentor Panel</td>
<td>President’s Dining</td>
<td>2–3 p.m.</td>
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<tr>
<td>History</td>
<td>Ogeechee Theatre</td>
<td>9:30–10:50 a.m.</td>
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<tr>
<td>Languages, Literature and Philosophy</td>
<td>Ballroom B</td>
<td>1:10–3:20 p.m.</td>
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<tr>
<td>Mathematics</td>
<td>Ballroom C</td>
<td>4:15–4:55 p.m.</td>
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<tr>
<td>Moot Court Argument Simulation</td>
<td>Ogeechee Theatre</td>
<td>3–4:15 p.m.</td>
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<tr>
<td>Nursing</td>
<td>Ballroom A</td>
<td>2:30–4 p.m.</td>
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<tr>
<td>Panel: Europe in the High Middle Ages</td>
<td>President’s Dining</td>
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<td>Panel: Norman Rule in England Panel</td>
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<td>Poster Session 4 (HIST 2000)</td>
<td>Ballroom Hallway</td>
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<tr>
<td>Psychology</td>
<td>Ballroom C</td>
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<tr>
<td>Rehabilitation Sciences and Physical Therapy</td>
<td>Ballroom A</td>
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<tr>
<td>University Writing Awards</td>
<td>Tybee</td>
<td>2–3:30 p.m.</td>
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### Thursday, April 19, 2018

#### POSTER & ORAL SESSIONS

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<td>Art, Music and Theatre</td>
<td>Ballroom A</td>
<td>9:30 a.m.–12 p.m.</td>
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<tr>
<td>Biology</td>
<td>Ballroom C</td>
<td>9:30–9:50 a.m.</td>
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<td>Chemistry and Physics</td>
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<td>Criminal Justice, Social and Political Science</td>
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April 18, 2018
ORAL & POSTER PRESENTATIONS

PRESDENT’S DINING ROOM

Functional Morphology Oral Presentations
11:00-12:15
Mentor: Austin Francis, Jr.

SKIDAWAY ROOM

Research Assistant Panel
12:30-1:30
Hannah Bryan, Eliza DeRienzo, Andrew Dierking, Rebecca Thiele, & David Woods Moderator: Allison Belzer

*^=Grant Recipient  ^=Grant Recipient  *=Honor’s Project  *=Honor’s Project  ^=Georgia Power Scholar

POSTER SESSION 1
(12-1:30 P.M.)

1. ^Chaienne Tucker, A Community Literacy Partnership around Kwame Alexander’s the Playbook: 52 Rules to Aim, Shoot, and Score in this Game Called Life. Mentors: Anne Katz & Lynn Roberts
2. **Katherine Baker, We Need Diverse Books: A Children’s Literature Analysis. Mentor: Anne Katz
3. **Caitlin Macon, Children’s Literature through a Hispanic Lens. Mentor: Anne Katz
4. **Ashley Stroud, Reading Assessment Tools. Mentor: Anne Katz
5. Alexia Jenkins, See Yourself in the Text: A Diverse Children’s Literature Analysis. Mentor: Anne Katz
7. Caleb Branham & Pierce Graves, Current Influenza Epidemic in Georgia. Mentor: TimMarie Williams
8. **Jacquelyn Mesenbrink, **Darnel Howlett & **Neal Modi, Evaluating the Effects of the Cancer Preventing Vaccination. Mentor: McKinley Thomas
10. **Victoria Hearn, **Tequan Dorsey & **Elizabeth Abiouro, Evidence Based-Review of the Prescription Opioid and Hepatitis C Syndemic Among Young People Who Inject Drugs. Mentor: McKinley Thomas
11. ^Hafsa Junaid & Andrea Delgado, Diabetes in Georgia. Mentor: TimMarie Williams
15. **Morgan Peterson & **Bryan Newsome, Analysis of Ambient Air Pollution Monitoring and the Effects on Urban Population Health: A Systematic Literature Review. Mentor: Sara Plaspohl
16. **Christina Cook & **Jacelyn Crumley, Interventions Aimed at Increasing Vegetable Consumption for Adults and Adolescents: An Evidence-Based Review. Mentor: Sara Plaspohl
18. **Adriana Scurry & **Erin Smarr-Allen, Barriers to Vaccination in Children 19 to 35 in the United States. Mentor: Sara Plaspohl
19. **Grant Voyles & **Khatiga Nasir, Mental Health Issues in Elderly Ages 60 and Over. Mentor: Nandi Marshall
20. **Latoriya Young, Poverty: The Hopeless Effect on High School Graduation Rates. Mentor: Sara Plaspohl
22. **Lunie Beal, Evidence-Based Behavioral and Social Factors of Colorectal Cancer Screening in African-American Men, ages 50 and older. Mentor: Sara Plaspohl
25. **Tequan Dorsey, Preventive Measures Among Obese Children and Adolescents: Comparison of Interventions. Mentor: Sara Plaspohl
27. **Steven Williams & **Kelli Rouser, The Association Between Bullying and Suicide Amongst Adolescents. Mentor: Sara Plaspohl
29. **Akeya Sanders, Proposed Program: Comprehensive Sexual Health Education for Public School Students in Chatham County, Georgia Aged 12-19 years old. Mentor: Nandi Marshall
31. **Tevin Duncan, Benefits of Resistance Training in Undergraduate Males. Mentor: Sara Plaspolih
32. **Kimberly Thomas & **Jeffery Finney, Health Disparities Among Black MSM and HIV/AIDS. Mentor: Sara Plaspolih
33. *Stacie Sims, The Effects of Regular Exercise on the Stress Levels of College Students. Jeffrey Harris
37. Jillian Heck, Corinne Salle, Cierra Drake, & Yirline Rojas, The Use of Sonography to Assess Intrauterine Devices (IUDs). Mentors: Myka Bussey-Campbell & Yvonne Zakrzewski
39. Clark Evans, Aaliyah Miles, & Hannah Vulgamore, Beauty is Skin Deep, so is Melanoma. Mentor: Pamela Cartright
40. Emily Shepherd, Lauren Biles, LeeAnna Harn, & Haley Watson, Glioblastoma Multiforme: A Review. Mentor: Pamela Cartright
42. *Ella Davis, Effective Traumatic Brain Injury Treatments for Military Personnel. Mentor: Casey Keck
43. **Sydney Boyum, Exploring the Segmentals and Suprasegmentals in Individuals with Foreign Accent Syndrome. Mentor: April Garrity
44. **Madison Howell & **Victoria Hadden, Impeding the onset of dementia: The role of modifying lifestyle choices versus refraining from adapting lifestyle behaviors. Mentor: April Garrity
45. **Jaycelyn Jones & **Bobbie Sue Maiorano, Breaking Bad: Treating TBI Related Executive Dysfunction in Inmates. Mentor: April Garrity
47. **Carley Bunch & **Taylor Hill, The Improvement of Language in Individuals with Aphasia: Does the Intensity Level of Constraint-Induced Language Therapy determine Client Success. Mentor: April Garrity
50. **Caroline Braun, Increasing communication competence in individuals with non-fluent aphasia: A comparison of no tech and high tech AAC interventions. Mentor: April Garrity

POSTER SESSION 2
(2–3:30 P.M.)

1. **Jackie Mesenbrink & **Darnel Howlett, Socioeconomics Status & Hesitancy: Barriers to infant vaccination in the United States. Mentor: Sara Plaspolih
3. **Elizabeth Abiorno, **Anyfa Hanna, & **Lubov Gladkova, Children Exposed To Secondhand Smoke. Mentor: Sara Plaspolih
4. Delaney Dusch, Fauvism and Color Psychology. Mentor: Raymond Gaddy
10. "Gayla Herbert, Preliminary Research For Economic Impacts Of Post-Disaster Gasoline Prices. Mentor: Michael Toma
13. "Linnea Ryan, Out of Sight, Out of Mind: Examining Gender Representation in Savannah’s Historical Markers. Mentor: Amy Potter
14. Amber Neagley, Urbanization of Savannah, GA within the Last Decade and the Impacts on the Coast. Mentor: MeiMei Lin
15. Sarah Bohall, Strategy choice, mastery motivation, and the emergence of infant hand preference. Mentor: Joshua Williams
17. Angelica Cullen, Susana Shiner, & Justin Phillips, Note taking in college: What students note may foster immediate retention. Mentors: Joshua Williams & Nancy McCarley
20. "Kimberly Prescott, "Kelly Marden, Thea Smith, "Daniel Crafton, & "Mary-Kate Moore, Comparative decision making of rats amid varying methodologies. Mentor: Rebecca Rayburn-Reeves
22. "Mary-Kate Moore, An analysis of PowerPoint learning with spelling errors on relevant and irrelevant words. Mentors: Joshua Williams & Nancy McCarley
24. Ky’Aria Moses, "Sarah DesLauriers, Keyla Gonzalez, Catherine Simmons, & Marcus Walker, PowerPoint Spelling Errors, Information Retention, and Instructor Professionalism. Mentors: Joshua Williams & Nancy McCarley
26. "Marissa Dardozi & "Nicole Batalini, Quality Care for Individuals with Dementia: A Comparison Between Resources in the United States and in Developing Countries. Mentor: April Garrity
28. "Hafsa Junaid & Kiana Brown, Active learning by teaching: Improving student confidence and skills in statistics via use of Camtasia video technology. Mentor: Joshua Williams
30. Brooke Nichols, Exploring the Relationship Between Handholding Behaviors and Dominance. Mentor: Joshua Smith
31. Daniel Samuel, Hand preference as infants learn to reach. Mentor: Joshua Williams
34. Chabryia Henley, The Impact of Sensorimotor Experience and the Emergence of Hand Preference in Infants. Mentor: Joshua Williams
35. "Nicholas Wright & Cornequa Reynolds, Effects of action on perception: Directionality and prior sports experience. Mentor: Joshua Williams
37. "Michael Underwood, Multi Robot Tracking using Open CV image processing libraries for C++. Mentor Ashraf Saad
39. Anderson Duong, MATLAB Graphical User Interfaces (GUIs) for Thermodynamics. Mentor: Priya Goeser
POSTER SESSION 3
(4-5:30 P.M.)


2. "Mary Kate Moore, "Thea Smith, "Daniel Crafton, & "Kelly Marden, Learning and behavior: The relationship between egocentric cues and memory in a spatial midsession reversal task. Mentor: Rebecca Rayburn-Reeves


4. "Brian Kohler, Prevalence Of Wolbachia In Local Populations Of Cockroaches In The Southeastern US. Mentor: Jennifer Zettler


7. "Justin Anuskiewicz, DNA methylation of Channel Catfish in Dammed Rivers. Mentor: Aaron Schrey


10. "Mukti Patel & "Sierra Bartlett, Comparison of extraction kits for generation of high concentration and quality DNA from sea turtle cloacal fluid samples. Mentors: Jennifer Broff Bailey & Kathryn Craven

11. "Dulce Gonzalez, Epigenetic Variation in the Florida Scrub Lizards. Mentor: Aaron Schrey


15. "Lydia Peavy, DNA Methylation Patterns in Florida Sand Skink in Response to Wildfire. Mentor: Aaron Schrey


18. Megan Petty, Christopher Lee, & ^Jonathan Pope, Potential functionality of the xanthophyll cycle in the sand dune herb Hydrocotyle bonariensis. Mentor: Heather Joesting


22. "Katelyn Cook, Screening of specific genes for the Wolbachia endosymbiont from local mosquito populations. Mentor: Scott Mateer

23. "Mary Carpenter & "Kyle Awalt, Behavior and Biochemical Aspects of Learning and Memory in Danio rerio. Mentors: Keri Mans & Robert Mans


26. Iva Scepanovic, Seasonal multi-year survey of mud snail density and shell size at three Savannah, GA sites. Mentor: Michele Guidone
27. Ansley Osborne, Epigenetic Variation in the Florida Sand Skink. Mentor: Aaron Schrey
29. Chelsea Miles, Courtney Gest, Laurel Williams, & Angel Shumake, Let’s talk about sex baby: Can morphometric measurement of hatching diamondback terrapins accurately predict sex by using principal component analysis? Mentor: Kathryn Craven
30. Chelsea Miles, Kyra Wong, & Sierra Bartlett, How Much Is That Turtle In The Window? The Real Cost of Doing Student Research. Mentor: Kathryn Craven
31. Cicely Payne & Kyle Hinton, Ex vivo activation of cholinergic receptors inhibits GSK-3β in the telencephalon of adult zebrafish. Mentor: Robert Mans
32. Chelsea Miller, The Preparation and Analysis of Copper(II) Sulfate Crystal Formations: An Undergraduate Laboratory Curriculum Development Project. Mentor: Catherine MacGowan
33. Kenneth Richardson, Design and Synthesis of BQCA Analogs for Alzheimer’s Disease Research. Mentor: Sarah Zingales
34. Maria Huynh, Determining if NOXO1 Binds to RIP1. Mentor: Nicole Davis
35. Katey Smith, Serina Davenport, & Ariana Vargas, Biocatalysis: Investigating the reaction profile of amine dehydrogenase. Mentor: Brent Feske
36. Hunter Bourdon, Identifying Human Perforin Chimera Expression Conditions to Elucidate a Second Membrane Interacting Region. Mentor: Mitch Weiland
37. Brandon Campbell, Incorporation of biologically susceptible disulfide linkages in the backbone of peptide nucleic acid. Mentor: Nathaniel Shank
40. Raksha Smith, Quality Control of Beer Through Detection of MBT. Mentors: Sarah Gray & Sarah Zingales
41. Minh Nguyen, Antibacterial and Anticancer Activity of (2-Pyridinyl)methylene)-1-tetralone Chalcones. Mentor: Sarah Zingales
42. William Hister, Biodegradation of poly(aspartic acid): An introductory biochemistry laboratory exercise. Mentor: Mitch Weiland
43. Donna Rucker, Autonomous sensor development for aquatic carbon measurements. Mentor: Sarah Gray
45. Stefani Moyer, Developing a Green Microwave Synthesis of Polylactic Acid. Mentor: Nathaniel Shank
46. Skyler Pitts, Synthesis of a 2,6-Bis(tricyclohexylphosphenimino)benzene Nickel(II) Complex and its Reactivity with Dichloromethane. Mentor: Gary Guillet
47. Andrew Martin, Creating Molecular Handles from Synthetic Mimics of DNA. Mentor: Nathaniel Shank
48. Anthony Petrillo, Preparation and Characterization of Copper(II) Flavone and Bis(Pyrazolyl) Derivatives. Mentor: Brandon Quillian
49. Michael Kelly, Preparation of 7-Oxanorbornene Derivatives as Monomers for ROMP. Mentor: Sarah Zingales
50. Staci Johnston & Phuong Nguyen, Synthesis of enamine resistant substrates for an Amine Dehydrogenase library. Mentor: Brent Feske

April 19, 2018

ORAL & POSTER PRESENTATIONS

- Graduate Student
- Honor’s Project
- Grant Recipient
- Georgia Power Scholar

PRESIDENT’S DINING ROOM

Panels

Forging a Kingdom: Norman Rule in England, 1066-1135
9:30-11:00

Europe in the High Middle Ages, c.1095-1348
11:30-1:00
Daniel Smith, The Crusades: Heavenly or Worldly Warfare?; Benjamin Okoro, Richard the Lionheart vs. Saladin: The Legacy of the Third Crusade; Lily Sanders, Medieval Florence’s Economy and the Black Death; Mentor: James Todesca

Get Involved! Researcher and Mentor Panel
2:00-3:00
Michele Guidone, Biology; Gary Guillet, Chemistry; Meimei Lin, Geography; Nancy McCarley, Psychology; Jane Rago, LLP; Ashraf Saad, Computer Science
Moot Court Argument Simulation
3:30-4:00
Neal Schulze, Michael Miller, Tammy Mooren, Zachary Gruder, Mentor: Chris Tecklenburg

**Katelyn Hill, Savannah & 1:30-1:50 Bryan Davies**

**Lindsey, Chris, Josh & 1:10-1:30 Bryan Davies**

**Mentor: Elise Harris, Mentor: Bridget Conn**

**Elise Harris, People of the Squares: Hand Coloring Savannah. Mentor: Bridget Conn**


**11:00-11:20: Darian Merritt, Bulk Loading Film for Multiple Exposure. Mentor: Bridget Conn**

**Eliza DeRienzo, Beethoven and the Enlightenment: The Inspiration Behind Revolutionary Music. Mentor: Robert Harris**

**11:40-12:00: Elise Harris, Shoot. Print. Tint. Mentor: Bridget Conn**

**Nursing**
12:30-1:10
**Courtney Sanderlin, Disturbed Sleep Patterns Due to Stress Related to Nursing School: A Correlation Study at Armstrong State University. Mentor: Kathy Morris**

**12:50-1:10: DeAnna Hillery, A Gurvits Syndrome Case Study. Mentor: Gina Crabb**

**Rehabilitation Sciences and Physical Therapy**
1:10-4:50
**Josh Smith, Lindsey Armstrong, Chris Hobbs, Kendall Koballa, Closed Chain vs Open Chain Plyometrics in the Upper Extremity. Mentors: George Davies & Bryan Riemann**

**Savannah Houck, Krysten Hill, & Katelyn Duckworth, The Relationship of Lower Extremity Muscular Tightness with Footstrike Patterns in Recreational Runners. Mentors: Haley Worst, Nancy Henderson, & George Davies**

**Chris Campos, Will Bullard, Madison Houck, & Fred Martin, Effects of Exercise Induced Fatigue of the Shoulder Musculature on Upper Extremity Function. Mentors: George Davies, James Karnes, & Bryan Riemann**


**Brittany Spaid, Laura Sullivan, Max Langevin, Effects of Fatigue on Footstrike in Recreational Runners. Nancy Henderson, Haley Worst, & George Davies**

**Carly Mathis, A Study in Cultural Competence. Mentor: April Garrity**

**Allison Kratzer, Jared Hanna, Matt Hassig, Roberto Aviega, Unilateral Knee Ratios Correlation Between Sargent Vertical Jump Test, Handheld Dynamometry Testing and Isokinetic Testing. Mentors: George Davies, Frank Glenn, & Bryan Riemann**


**Joshua Morales, Clay Austin, Lindsey Minick, A comparison of the effects of HIIT training on lower extremity power—Spirit MUI100 upright cycle ergometer vs. Spirit MRI100 recumbent cycle ergometer. Mentor: Frank Glenn**


**Ballroom B**

Languages, Literature, and Philosophy  
9:30-12:30

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<td>9:50-10:10</td>
<td>*<em>Sierra Diemer, <em>Drowning in Possibility</em>: Commonplace Metaphors and the Existing Pool of Knowledge Surrounding Aquatic Safety Education</em>. Mentor: Annie Mendenhall</td>
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<td>12:10-12:30</td>
<td>Morgan Anderson, Antoine Arnauld on Saint Anselm's Views on Salvation. Mentor: Julie Swanstrom</td>
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**Criminal Justice, Social, & Political Science**  
1:10-2:50

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<td>Kaley Maricle, <em>The Importance of Archeology (through example of the Kiah House)</em>. Mentor: Laura Seifert</td>
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<td>1:30-1:50</td>
<td>Paul Ferdinand, <em>Turkey vs. The West</em>. Mentor: Nalanda Roy</td>
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<td>1:50-2:10</td>
<td>Timothy Eller, <em>Preparing For an Ethnography of Alternative ED Treatments</em>. Mentor: Virginia Estabrook</td>
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**Ballroom C**

Biology  
9:30-9:50

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<td>**Nicholas Moore, <em>&quot;Light&quot; Sleeping: The Effects of Chronic Sleep Deprivation on Zebrafish</em>. Mentor: Keri Mans</td>
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<td>*Andrew Dye, <em>Gravity and Uncertainty in the Quantum Universe</em>. Mentor: Jeffery Secrest</td>
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<td>10:50-11:10</td>
<td>**Andrew Goetz, <em>Examination of the Evolution of Extra Dimensional Universes</em>. Mentor: Jeffery Secrest</td>
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<td>*Ariana Vargas, <em>Asymmetric Reductive Amination using Amine Dehydrogenase</em>. Mentor: Brent Feske</td>
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Psychology  
12:30-1:50

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<td>*Christina Nelson, *Kimberly Prescott, &amp; *Sarah DesLauriers, <em>Decision-making Based on Work Effort and Distance</em>. Mentor: Rebecca Rayburn-Reeves</td>
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<td>12:50-1:10</td>
<td>*Thea Smith, *Daniel Crafton, &amp; *Kimberly Prescott, <em>Effects of Physical Effort on Decision Making in Rats</em>. Mentor: Rebecca Rayburn-Reeves</td>
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<td>1:10-1:30</td>
<td>Angelica Cullen, <em>Learning to identify relevant information on PowerPoints: The impact of Conscientiousness and feedback type</em>. Mentors: Joshua Williams &amp; Nancy McCriley</td>
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<td>1:30-1:50</td>
<td>**Mary Kate Moore, <em>George Berkeley and Multimodal Perception: Forgotten influences on modern perspectives</em>. Mentors: Joshua Williams &amp; Nancy McCriley</td>
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2:00-2:20
Chanukya Badri, Ayman Bagabas, & Donald Hinton, 
Construction of Elliptic Curves Using Fibonacci Prime Numbers. Mentor: Duc Huynh

2:20-2:40
Rosina Campbell & Keely Hughes, Solutions to Linear Differential Equations having Infinite Monomial Galois Group. Mentor: Sabrina Hessinger

2:40-3:00

OGEECHEE THEATRE

HISTORY
9:30-10:50

Daniel Smith, Heavenly or Worldly Warfare. Mentor: Jason Tatlock

9:50-10:10
Grace Powers, Secular and Religious Medicine in Ancient Civilizations. Mentors: Christopher Hendricks & Jonathan Roberts

10:10-10:30

10:30-10:50
Jesus Miguel de Alba, Nature and Nurture: Urbanization’s influence on student academic achievement, GA. Mentor: MeiMei Lin

Faculty UR Workshop!
3:00-4:15
Dr. Anastasia Lin, Scaffolding Undergraduate Research: From the First Year to Graduation and Beyond

Education
4:15-4:55

**Sharia Davis, The Effects of Racism on African Americans’ Education in America. Mentor: Regina Rahimi

4:35-4:55
Britton Hammel-Cobb, Lauren Kelly, Kaitlyn Demirjian, & Charlton Riegner. Gamification of the Science Classroom: An Investigation of the Use of an Online Gaming Platform to Improve Student Performance. Mentor: Rebecca Wells

BALLROOM HALLWAY

HISTORY 2000 POSTER SESSION
3:30-4:45

1. Elizabeth Ossi, Food Deserts in America. Mentor: Carol Linskey
2. LaQuandra Bundage, Is Dark Chocolate “Really” Unhealthy? Mentor: Carol Linskey
3. Tyia Causey, A comparison between American and Asian Processed Snacks. Mentor: Carol Linskey
4. Tatyana Coleman, Cheesy Eating. Mentor: Carol Linskey
5. Kaitlin Beaudoin, Harmful Effects of Nonbiodegradable Plastics. Mentor: Carol Linskey
7. Tu Pham, The Wonder World of Hotdog. Mentor: Carol Linskey
8. Sydney Echols, Energy Drinks in the US. Mentor: Carol Linskey
### Poster Session 1 Index
(Alphabetical by First Author Last Name)

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