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Student Research Symposium 2019

Georgia Southern University

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STUDENT RESEARCH SYMPOSIUM 2019



GEORGIA SOUTHERN
UNIVERSITY

STUDENT SCHOLARS SYMPOSIUM

ARMSTRONG CAMPUS

Student Union

Wednesday, April 24, 2019
ORAL PRESENTATIONS

Art	Ballroom A	10:10–11:55 a.m.
Biology	Ballroom C	9:15–10:50 a.m.
Chemistry and Biochemistry	Ogeechee Theater	1:25–3:10 p.m.
Computer Science	Ballroom B	11:45 a.m.–12:05 p.m.
Curriculum, Foundations and Reading	Ballroom A	9:35–9:55 a.m.
	Skidaway Room	4–5 p.m.
Diagnostic & Therapeutic Sciences	Ballroom C	12:20–1 p.m.
Geology & Geography	Ballroom A	9:15–9:35 a.m.
Health Policy & Community Health	Ballroom C	10:50–11:10 a.m.
Health Sciences & Kinesiology	Ballroom C	11:25 a.m.–12:05 p.m.
History	Ballroom B	12:20–2:05 p.m.
Literature	Ballroom A	12:20–2:05 p.m.
Mathematics	Ballroom B	9:15–9:55 a.m.
Middle & Secondary Education	Ogeechee Theater	3:40–5:20 p.m.
Moot Court Argument Simulation	President's Dining Room	11:25 a.m.–12:05 p.m.
Music	Ogeechee Theater	9:15–9:55 a.m.
Physical Therapy	Ballroom C	1–2:25 p.m.
Political Science	Ogeechee Theater	10:10–11:10 a.m.
Psychology	Ogeechee Theater	11:25 a.m.–12:25 p.m.
Rehabilitation Sciences	Ballroom C	2:30–3:10 p.m.
Sociology & Anthropology	Ballroom B	10:10–11:10 a.m.
Writing & Linguistics	Ballroom A	2:10–2:30 p.m.

Thursday, April 25, 2019
POSTER PRESENTATIONS

Poster Session 1	Ballrooms	9:30–10:45 a.m.
Keynote Address	Ogeechee Theater	11 a.m.–12 p.m.

Synergistic Success Stories: A Conversation Exploring Faculty/Student Research Collaboration

College of Science and Mathematics: *Dr. Sara Gremillion and Mr. Demetrius Hurst*

College of Arts and Humanities: *Prof. Chris Cartright and Ms. Lauren Crisp*

College of Behavioral and Social Sciences: *Dr. Andrew Bulla and Ms. Hafsa Junaid*

College of Engineering and Computing: *Dr. Felix Hamsa-Lup and Mr. Coby Wissing*

Moderated by Dr. Amy Potter

Poster Session 2	Ballrooms	12:30–1:45 p.m.
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APRIL 24, 2019

ORAL PRESENTATIONS

Symbols:

**=Graduate Student

*=Honors Project

=Grant Recipient

+ =Georgia Power Scholar

PRESIDENT'S DINING ROOM

Moot Court Argument Simulation

11:25 a.m.–12:05 p.m.

Neal Schulze, Timothy Miller, Alyson Ryan, Dean Hicks,
Moot Court Simulation. Mentor: Chris Tecklenburg,
Political Science and International Relations

BALLROOM A

Geology and Geography

9:15–9:35 a.m.

9:15–9:35 a.m.

**Linnea Ryan, *Beyond the Wars on the River: An Analysis of the Historical Markers in Savannah, Georgia*. Mentors: Amy Potter, Meimei Lin, Geology and Geography

Curriculum, Foundations and Reading

9:35–9:55 a.m.

9:35–9:55 a.m.

**Robyn Dailey, *Integrating Culturally Relevant Texts to Build Relationships, Increase Motivation and Improve Reading Achievement*. Mentor: Anne Katz, Curriculum, Foundations and Reading

Art

10:10–11:55 a.m.

10:10–10:30 a.m.

Chance Everette, *Video Games as Interactive Art History*. Mentor: Kasie Alt, Art

10:30–10:50 a.m.

Maya Malins, *Bill Viola's The Crossing and Buddhist Self-Immolation*. Mentor: Kasie Alt, Art

10:50–11:10 a.m.

Pamela Reynolds, *Mosaics: Art or Craft?*
Mentor: Kasie Alt, Art

11:15–11:35 a.m.

*Bethany Panhorst, *Granite Sculpture in America*.
Mentor: John Jensen, Art

11:35–11:55 a.m.

Bri Daniels, *The Female Nude*. Mentor: Bridget Conn, Art

Literature

12:20–2:05 p.m.

12:20–12:40 p.m.

Frankie Jackson, *Challenging Star Wars: How The Last Jedi Borrows from Kurosawa*.

Mentor: Karen Hollinger, Literature

12:40–1 p.m.

*Ben Cela, *Merging Film and Literary Conventions to "Make New" William Faulkner's As I Lay Dying*.

Mentor: Amanda Konkle, Literature

1–1:20 p.m.

*Necole T. Deloach, *Defining Ourselves: A Selection of Black, Immigrant, Women Authors on Identity*. Mentor: Hapsatou Wane, Literature

1:25–1:45 p.m.

Cassidy McCarthy, *The Powerful Women of the Odyssey*.

Mentor: Christopher Baker, Literature

1:45–2:05 p.m.

*Rebecca Thiele, *Religion in Westeros: Ritualistic to Realistic*. Mentor: Carol Jamison, Literature

Writing & Linguistics

2:10–2:30 p.m.

2:10–2:30 p.m.

Erica Cribbs, *The Tea on Beyonce's Lemonade*. Mentor: Christopher Cartright, Writing and Linguistics

BALLROOM B

Mathematics

9:15–9:55 a.m.

9:15–9:35 a.m.

Tim Eller, *Constructing Supersingular Elliptic Curves*.
Mentor: Duc Huynh, Mathematics

9:35–9:55 a.m.

*Justin Cash, *Counting Domino Tilings*. Mentor: Tricia Brown, Mathematics

Sociology & Anthropology

10:10–11:10 a.m.

10:30–10:50 a.m.

[^]Alexis Eanes, *Confronting Micro- and Macro-Aggression at a Historical White Institution in the South*. **Mentor: Alicia Brunson, Sociology and Anthropology**

10:50–11:10 a.m.

Miyanla Brockington, *Strategies of Success: Black Students' Suggestions for Increasing Retention and Graduation Rates*. **Mentor: Alicia Brunson, Sociology and Anthropology**

Computer Science

11:45 a.m.–12:05 p.m.

11:45 a.m.–12:05 p.m.

[^]Adrian Pizano, *Smart City, Smart Campus: Current Status and Future Research Direction*. **Mentors: Hongjun Su, Hong Zhang, Computer Science**

History

12:20–2:05 p.m.

12:20–12:40 p.m.

^{*}Lily Sanders, *Early Islamic Conquests in Jerusalem and Iberia*. **Mentor: Jason Tatlock, History**

12:40–1 p.m.

Alyssa Danos, *Reconciliation to Restoration: France and Germany's Creation of a Unified Europe*. **Mentor: Olavi Arens, History**

1–1:20 p.m.

Alyssa Saldivar, *Recording and Interpreting Savannah's Maritime Cultural Landscape*. **Mentor: Kurt Knoerl, History**

1:25–1:45 p.m.

David Robles, *American Identity and the "Lost Battalion" in World War I*. **Mentor: Allison Belzer, History**

1:45–2:05 p.m.

Kelly Vislocky, *The Last Perspective of a Dying Empire: Understanding Emperor Franz Joseph I and Austria-Hungary in World War I*. **Mentor: Allison Belzer, History**

BALLROOM C

Biology

9:15–10:50 a.m.

9:15–9:35 a.m.

Rowan Christensen, *DNA methylation as a molecular mechanism that affects behavior in differing environments*. **Mentor: Aaron Schrey, Biology**

9:35–9:55 a.m.

[^]Nicole Scheuermann, *Interpersonal Interactions in a Course-Based Undergraduate Research Experience at Primarily Undergraduate Institutions*. **Mentor: Sue Dechenne-Peters, Biology**

10:10–10:30 a.m.

^{*}Grace Powers, Kyle Hinton, Cicely Payne, Nicole Scheuermann, Michael Saint-Jean, *Stimulation of the Zebrafish Cholinergic System induces Phosphorylation of GSK3 β and ERK1/2 in the Telencephalon of the Adult Zebrafish (*Danio rerio*)*. **Mentor: Robert Mans, Biology**

10:30–10:50 a.m.

[^]Brian Kohler, GA. **Mentors: Jennifer A. Zettler, Traci L. Ness, Biology**

Health Policy & Community Health

10:50–11:10 a.m.

10:50–11:10 a.m.

Jackie Mesenbrink, *Expression and Characterization of Epstein-Barr Virus Encapsidation Proteins*. **Mentor: Dziyana Nazaruk, Health Policy & Community Health**

Health Sciences & Kinesiology

11:25 a.m.–12:05 p.m.

11:25–11:45 a.m.

^{**}Kaitlyn Stanfield, Cheyenne Quindara, Jordan Richardson, *Effective Presentation for Healthcare Strategy*. **Mentor: Janet Buelow, Health Sciences and Kinesiology**

11:45 a.m.–12:05 p.m.

^{***}Ashley Jacob, Puneet Ahluwalia, Taylor Fletcher, Keith Bly, *The Need for Health Information in Senior/Disabled Living Centers*. **Mentor: Janet Buelow, Health Sciences and Kinesiology**

Diagnostic & Therapeutic Sciences

12:20–1 p.m.

12:20–12:40 p.m.

***Tiffany Hong, Na'eemah Massey, Karrington McAfee, Karissa Rucker, *The Use of Handheld Portable Ultrasound in the Medical Field*. Mentor: Myka Bussey–Campbell, Diagnostic and Therapeutic Sciences**

12:40–1 p.m.

Grace Crain, Savannah Barnett, Taylor Gunthorp, *High-Intensity Focused Ultrasound as an Alternative to Traditional Treatments for Tumors*. Mentor: Myka Bussey–Campbell, Diagnostic and Therapeutic Sciences

Physical Therapy

1–2:25 p.m.

1–1:20 p.m.

****Katie Jones, Alexis Gonzalez, Delicia Bell, *Effects of Education, Taping and Stretching on Forward Head Posture and Muscular Trigger Points*. Mentors: Haley Worst, Nancy Henderson, Andi Beth Mincer, Physical Therapy**

1:20–1:40 p.m.

****Kendall Korte, Erin Moore, Paige Patrick, *A Comparison of the Effects of High-Intensity Interval Training (HIIT) on Lower Extremity (LE) Muscular Power*. Mentors: Frank Glenn, George Davies, Physical Therapy**

1:45–2:05 p.m.

****Hayley Abell, Hannah Lawson, Alyssa Martinek, Bradley Seuntjens, *Unilateral Ratios of Shoulder Muscles and Correlation to a Seated Shot Put Test*. Mentors: George Davies, Bryan Riemann, Physical Therapy**

2:05–2:25 p.m.

****Savanna Gladue, Michelle Halladay, Jordan Brown, Matthew Swafford, *Comparison of Mobilization Techniques Using 30-Versus 60-Second Treatment Sessions In First-Year Doctor of Physical Therapy (DPT) Students And Retention Testing of First-Year DPT Students*. Mentors: Frank Glenn, George Davies, Haley Worst, Physical Therapy**

Rehabilitation Sciences

2:30–3:10 p.m.

2:30–2:50 p.m.

****James Rowe, Hunter Lewis, Dixie Edalgo, *The Effects of Eccentric Loading Compared to Static Stretching and Control on Hamstring Flexibility*. Mentors: Nancy Henderson, Haley Worst, Ryan Decarreau, George J. Davies, Rehabilitation Sciences**

2:50–3:10 p.m.

****Chandler Fogarty, Zach Gretsich, Kyle Marlow, Ross Morris, *Torque Steadiness Measurements of the Shoulder in Normal Subjects and Subjects with Shoulder Pain*. Mentors: George Davies, Bryan Riemann, Frank Glenn, Rehabilitation Sciences**

OGEECHEE THEATER

Music

9:15–9:55 a.m.

9:15–9:35 a.m.

Eliza DeRienzo, *Vivaldi at the Ospedale della Pietà*. Mentor: Robert Harris, Music

9:35–9:55 a.m.

Bryan J. Bell, *J. S. Bach's Last Decade and the "Art of Fugue"*. Mentor: Robert Harris, Music

Political Science

10:10–11:10 a.m.

10:10–10:30 a.m.

Chakita Durden, *Asia, the U.S. and Their Future*. Mentors: Dan Skidmore–Hess, Nalanda Roy, Political Science and International Relations

10:30–10:50 a.m.

Norah Godbee, *Congressional Response to Environmental Issues*. Mentor: Lara Wessel, Political Science and International Relations

10:50–11:10 a.m.

Alyssa Idahosa, *Pleasure to Pain: How Porn Hurts Him, Her and Everyone Involved*. Mentor: Lara Wessel, Political Science and International Relations

Psychology

11:25 a.m.–12:25 p.m.

11:25–11:45 a.m.

****Hafsa Junaid, **Monique Benjamin, Talia Wind, *Increasing Steps in Sedentary College Students with Self-Monitoring and Social Feedback*. Mentors: Andrew Bulla, Psychology Dziyana Nazaruk, Health Policy and Community Health**

11:45 a.m.–12:05 p.m.

Thea Smith, Maria Victoria Lee, Nicholas Laczko, Elizabeth Jacobs, *Comparing the Effectiveness of Discrete Trial Training and Frequency-Building Instruction on Measures of Fluency*. Mentors: Andrew Bulla, Jennifer Wertalik, Psychology

12:05–12:25 p.m.

^*Mary Kate Moore, *Lasting Happiness: A Randomized Controlled Trial Approach to Influencing Wellbeing*. Mentor: Stephen Johnson, Psychology

Chemistry and Biochemistry

1:25–3:10 p.m.

1:25–1:45 p.m.

Minh Anh Nguyen, *Strategies toward Combating Antimicrobial Resistance through Small Molecule Efflux Pump Inhibitors*. Mentor: Sarah Zingales, Chemistry and Biochemistry

1:45–2:05 p.m.

Raven Dean, *Synthesis of Flavonols for CO₂ Release*. Mentor: Sarah Zingales, Chemistry and Biochemistry

2:05–2:25 p.m.

Shabrina Jarrell, *Design and Synthesis of Amino flavonols as M1 mAChR Agonists to Treat Alzheimer's Disease*. Mentor: Sarah Zingales, Chemistry and Biochemistry

2:30–2:50 p.m.

^Austin Bolay, Hunter Bourdon, Henry Salvo, *Characterization of Poly (Aspartic Acid) Hydrolase-1 Using Structure Guided Mutational Analysis*. Mentor: Mitch Weiland, Chemistry and Biochemistry

2:50–3:10 p.m.

^Chelsea N. Miller, *The Preparation and Analysis of Copper Benzoate and Pyridine N-oxide Complexes*. Mentor: Clifford Padgett, Chemistry and Biochemistry

Middle and Secondary Education

3:40–5:20 p.m.

3:40–4 p.m.

Monique Ellis, *Utilizing Question-Driven Project-Based Learning Techniques in a Sixth-Grade Research Classroom to Promote Abstract Learning that is a Necessary Foundation for Research*. Mentor: Rebecca Wells, Middle and Secondary Education

4–4:20 p.m.

Allison Gladin, *Understanding Freshmen Adjustment to High School*. Mentor: Rebecca Wells, Middle and Secondary Education

4:20–4:40 p.m.

Caryn Nelson, *Using Academic Language to Enhance Student Understanding of Difficult Science Concepts in the High School Biology Classroom*. Mentor: Rebecca Wells, Middle and Secondary Education

4:40–5 p.m.

Lindsay Norcross, *Investigating the Use of Individual Student-Nurtured Plant Specimens (ISNPS) as a Tool for the Promotion of Self-Efficacy in the Secondary Science Classroom*. Mentor: Rebecca Wells, Middle and Secondary Education

5–5:20 p.m.

Lorna Smith, *Utilizing Game Strategies to Increase Student Participation and Learning in 8th-grade Physical Science*. Mentor: Rebecca Wells, Middle and Secondary Education

SKIDAWAY ROOM

Curriculum, Foundations and Reading

4–5 p.m.

4–4:20 p.m.

**Taylor Schultz, *Integrating Prior Knowledge and Schema to Develop Students' Reading Comprehension Skills*. Mentor: Anne Katz, Curriculum, Foundations and Reading

4:20–4:40 p.m.

**Judy Armstrong, *An Action Research Study: Strategic Comprehension Strategies to Foster Student Success*. Mentor: Anne Katz, Curriculum, Foundations and Reading

4:40–5 p.m.

**Leslie Wilson, *Adventures in Content-Area Math and Literacy Integration*. Mentor: Anne Katz, Curriculum, Foundations and Reading

APRIL 25, 2019

POSTER SESSION 1

9:30-10:45 a.m.

Symbols:

**=Graduate Student

*=Honors Project

=Grant Recipient

=Georgia Power Scholar

1. **Juliann Roman**, *Examination of Plant Phenology Changes in Local Native and Non-native Plants*. **Mentor: Michele Guidone, Biology**
2. **^Mihir Patel**, *Quantifying Microplastic Pollution in Marsh Habitats*. **Mentor: Michele Guidone, Biology**
3. **Madison Logan**, *Rainfall Interception by the Marsh Plant *Spartina alterniflora**. **Mentor: Michele Guidone, Biology**
4. **Clay Blanton**, *Growth of *Smilax Bona-nox* in Different Soil Mediums*. **Mentor: Michelle Guidone, Biology**
5. **Mackenzie McCauley, Colton Allgood**, *Effect of Nicotine on the Adult Zebrafish Brain*. **Mentors: Keri Mans, Robert Mans, Biology**
6. **^Katelyn Cook, Sarah Kistner**, *Identifying Different *Wolbachia* Strains through Multilocus Sequence Typing (MLST)*. **Mentor: Scott Mateer, Biology**
7. **Kayla Padgett, Zaria Graham**, *Bacterial Composition in Unhatched Loggerhead Sea Turtle Eggs*. **Mentors: Jennifer Brofft Bailey, Kathryn Craven, Biology**
8. **Andrien Wilson, Sierra Bartlett**, *Characterization of the Bacterial and Fungal Cloacal Microbiome in Nesting Loggerhead Sea Turtles Using a PCR-based, Non-Culturing Method*. **Mentors: Jennifer Brofft Bailey, Kathryn Craven, Biology**
9. **Elise Georgeff**, *Quantifying Methods of Tracking Vessel Use Over Gray's Reef National Marine Sanctuary*. **Mentor: Kathryn Craven, Biology**
10. **Dulce Gonzalez, Gabrielle D'Alessandro, Amy Barrett**, *Effect of Obesity on Cognitive Function in Mice: Role of Ephrin-B2*. **Mentor: Mohammed Abdelsaid, Biomedical Sciences, Mercer University and Traci Ness, Biology**

11. **Kyra Wong, Brianna Davis**, *Survey of Local Blue Crabs for *Hematodinium perezii* Prevalence*. **Mentor: Jennifer Brofft Bailey, Biology**
12. **Michelle C. Baldwin, Brian Kohler, Ariel Joy Lipat, Mierra C. Robinson, Keith M. Morgan II**, *Monsters Inside Me: The Prevalence of an Obligate, Internal Parasite in Paper Wasps*. **Mentors: Jennifer A. Zettler, Traci L. Ness, Biology**
13. **Theresa Nguyen, Olisa Lewis, Miranda Smith, Hannah Taylor**, *Insect Body Farm: Determining the Role of Dismembered Insects in an Ant Fungal Garden*. **Mentors: Jennifer Zettler, Sara Gremillion, Biology**
14. ***Hannah Taylor, Olisa Lewis, Miranda Smith, Theresa Nguyen, Mary, Mary, Quite Contrary**, *Where Do Your Beetle Parts Go?* **Mentors: Jennifer Zettler, Sara Gremillion, Biology**
15. ***Demetrius Hurst, Genesis Caiza, Gianni Larkins**, *Home is Where the Microbes Are. Investigations of the Microbial Flora Housed in Colonies of the Fungal Farming Ant *Cyphomyrmex**. **Mentors: Sara Gremillion, Jennifer Zettler, Biology**
16. ***Miranda Smith, Daniella Ray**, *Obtaining DNA Directly from Fungal-infected Leafspots of Peanut*. **Mentor: Sara Gremillion, Biology**
17. **Mike St. Jean, Grace Powers, Kyle Hinton, Cicely Payne, Nicole Scheuermann, Cameron Ochoa, Seth Andrews, Jousephine Araya, Hunter Sheffield**, *Ex vivo Activation of Cholinergic Receptors Activates ERK 1/2 and Inhibits GSK 3-beta in the Telencephalon of Adult Zebrafish*. **Mentor: Robert Mans, Biology**

Chemistry and Biochemistry

18. **Shanelle Dillon**, *Preparation of Diamino Crosslinked Poly (Aspartic Acid) Polymers*. **Mentor: Brandon Quillian, Chemistry and Biochemistry**
19. **^Joseph Bazemore**, *Preparation of a Viable Olefin Hydroarylation Ruthenium Catalyst Supported by Bis(pyrazolyl)acetate* **Mentor: Brandon Quillian, Chemistry and Biochemistry**
20. **Amari McDonald, Miranda Smith**, *Antioxidants in Basil*. **Mentors: Suzanne Carpenter, Richard Wallace, Chemistry and Biochemistry**

21. **Ryan Gallaher**, *The Expression and Purification of Full Length Nox1*. **Mentor: Nicole Davis, Chemistry and Biochemistry**
22. **^Hunter Bourdon, Austin Bolay**, *Poly(Aspartic Acid) Hydrolase-1: Expression, Purification, Crystallization and Structure Determination*. **Mentor: Mitch Weiland, Chemistry and Biochemistry**
23. **^Tarah Yared, Shelby M. Mcmanus**, *Characterization of Poly(aspartic acid) hydrolase-2: Expression, Purification and Crystallization*. **Mentor: Mitch Weiland, Chemistry and Biochemistry**
24. **^Chelsea N. Miller**, *Development of an Guided-Inquiry Based Undergraduate Laboratory Module: The Preparation & Analysis of Copper (II) Sulfate Crystal Formations*. **Mentors: Catherine MacGowan, Ryan Groom, Chemistry and Biochemistry**
25. **^Maria Kauz, Christine Mendez-Childers**, *Computational Studies of Bis-phosphinimine NCN-Pincer Nickel(II) Complexes*. **Mentor: Walter E. Turner II, Chemistry and Biochemistry**

Computer Science

26. **^Coby Wissing, Parker Towery**, *Web-based X3D Real-time Data Visualization for Autonomous Wireless Sensor Data*. **Mentors: Felix Hamza-Lup, Hongjun Su, Computer Science**

Diagnostic and Therapeutic Sciences

27. **Clint Van Der Linden, Myranda Wilson, VanEsser Sitton**, *The Importance of Further Research in Small Cell Lung Cancer*. **Mentor: Laurie Adams, Diagnostic and Therapeutic Sciences**
28. **Jacey Folsom, Donna Cross, Uwem Etuk**, *Prostate Cancer*. **Mentor: Laurie Adams, Diagnostic and Therapeutic Sciences**
29. ***Sara Kuehn, Bailey Boyd**, *Treatment Options for Brain Metastases*. **Mentor: Laurie Adams, Diagnostic and Therapeutic Sciences**
30. **Aleigha McDaniel, Robert McGhee, Gregory Holland**, *Breast Cancer: Invasive Ductal Carcinoma*. **Mentor: Laurie Adams, Diagnostic and Therapeutic Sciences**

Mathematics

31. **Nadou Lawson**, *Angle Optimization, Movie Screen, Integer Solutions*. **Mentor: James Brawner, Mathematics**
32. ***Amelia Farrell**, *Analysis of Stock Price Using the Black-Scholes Equation*. **Mentor: Dawit Denu, Mathematics**

Physical Therapy

33. ****Stephanie Miller, Spencer Calhoun, Jessica Prince, Maria Sapp**, *Fall Risk in the Essential Tremor Population*. **Mentors: Kathleen Schaefer, James Karns, Physical Therapy**

Psychology

34. ***Erin Serface, Sydney Doneghy**, *The Effects of Public Perception of Anthropomorphism and Willingness to Provide Aid for Conservation for Endangered and Non-endangered Species Based on Familiarity*. **Mentor: Erin Frick, Psychology**
35. **Josie McKenzie, Amber Reagan, Mark Redman, Stephen Willis**, *"Tracking" the Relationship between Retention and Visual attention in PowerPoint Presentations*. **Mentors: Joshua Williams, Nancy McCarley, Psychology**
36. **^Ky'Aria Moses**, *Teaching Statistics with Screencast Technology and Celebrity Admiration Research Findings*. **Mentors: Joshua Williams, Nancy McCarley, Psychology**
37. **Maria Victoria Lee, Briana Jasper**, *Psychology Students Perceptions of Physics*. **Mentor: Joshua Williams, Psychology**
38. **Alice Ionescu**, *He Wouldn't Think I'd Look As Good In Those Jeans*. **Mentor: Wendy Wolfe, Psychology**
39. **Daniel Crafton, Jack O' Connor, Carly Moore**, *Time to Sweat the Small Stuff: Focusing on Math Tool Skills to Increase Math Fact Fluency*. **Mentor: Andrew Bulla, Psychology**
40. ****Kira Breen**, *Generalization of Larger Geometrically Symmetrical Enclosure Without the Use of Sight*. **Mentor: Jonathan Roberts, Psychology**

41. *Caleb Burnett, Kira Breen, Kevin White, Tara Van Kleeef, *Generalization of Smaller Geometrical Enclosure Without the Use of Sight*. Mentor: Jonathan Roberts, Psychology
42. *Tara Van Kleeef, Caleb Burnett, *Assessment of Spatial Navigation Through Juxtaposition of Textural Cues*. Mentor: Jonathan Roberts, Psychology
43. *Kevin White, Kira Breen, James Burnett, Tara Van Kleeef, *Generalization of Larger Geometrically Symmetrical Enclosure Without the Use of Sight*. Mentor: Jonathan Roberts, Psychology
44. *^+Mary Kate Moore, *Perception: A Historical Examination of George Berkeley's Impact on Multimodal Theory*. Mentors: Joshua Williams, Nancy McCarley, Psychology
45. Sydney Doneghy, Erin Serface, *The Effect of Animal Attractiveness vs. Unattractiveness on Public Support for Conservation Efforts of Endangered Species*. Mentor: Erin Frick, Psychology
46. *Megan O'Connor, Madison Logan, Briana Jasper, Maria Lee, Jordan Barnes, *Determining Food Preference in a Loggerhead Sea Turtle (Caretta, caretta)*. Mentors: Erin Frick, Andrew Bulla, Psychology

Sociology and Anthropology

47. ^Raymond Phipps, *A Glimpse into the Lives of Urban Enslaved Persons in Antebellum Savannah*. Mentor: Kara Bridgman Sweeney, Sociology and Anthropology

APRIL 25, 2019 POSTER SESSION 2 12:30-1:45 p.m.

Symbols:

**=Graduate Student

*=Honors Project

=Grant Recipient

+ =Georgia Power Scholar

Art

1. Chance Everette, *Felting Methods and Sound Design*. Mentor: Rachel Green, Art

Biology

2. ^Rajvi Dave, Rowan Christensen, *A Transient Receptor Potential Ion Channel is Involved in the Chlamydomonas reinhardtii CO2 Concentrating Mechanism*. Mentor: Marylou Machingura, Biology
3. Courtney Gest, *Investigating the Seasonal Variation of Water Quality for an Aquaponics System*. Mentor: Heather Joesting, Biology
4. *Annelise Kim, *Study of Morphological Changes in Hydrocotyle Bonariensis in Response to Abiotic Stressors*. Mentor: Heather Joesting, Biology
5. Olivia Roddenberry, Jamielee Adams, *Evaluating the Productivity of Arugula and Bibb Lettuce in Response to Air Circulation in Freshwater Aquaponic Grow Beds*. Mentor: Heather Joesting, Biology
6. Faith Loggins, *Identifying Genetic Elements that are Methylated Differently in Response to Wildfires*. Mentor: Aaron Schrey, Biology
7. Karim Chouhaita, *DNA Methylation Variation among Introduced House Sparrows*. Mentor: Aaron Schrey, Biology
8. Sana Omar, *Course-Based Research Increase Content Knowledge and Analytical Skills in Introductory Biology Course Lab*. Mentor: Sue Dechenne-Peters, Biology

Chemistry and Biochemistry

9. Kevin Zeiglar, *Site Directed Mutagenesis of Green Fluorescent Protein*. Mentor: Nicole Davis, Chemistry and Biochemistry
10. Taylor Hood, *Incorporation of Biologically Susceptible Disulfide Linkages in the Backbone of Peptide Nucleic Acid*. Mentor: Nathaniel Shank, Chemistry and Biochemistry
11. Andrew Martin, *Creating Molecular Handles from Synthetic Mimics of DNA*. Mentor: Nathaniel Shank, Chemistry and Biochemistry
12. Nouran Ahmed, *The Synthesis of Hybrid Compounds Containing an Efflux Pump Inhibitor and Antifungal Drug*. Mentor: Sarah Zingales, Chemistry and Biochemistry

13. Daniel Josey, *What's Really in Your E-cigarette? An Analysis of Over-the-counter Disposable CBD Vape Pens*. Mentor: Sarah Zingales, Chemistry and Biochemistry

Communication Sciences

14. Michelle Licari, Madison McCabe, *The Name Game: Comparing Treatments for Impaired Naming in Individuals with Aphasia*. Mentor: April Garrity, Communication Sciences and Disorders
15. Caitlin Chamberlain, Erin Standley, *Constraint Induced Aphasia Therapy vs. Group Language Therapy: A Comparison*. Mentor: April Garrity, Communication Sciences and Disorders
16. Haley Cook, Rebecca Smeak, *Effective Treatments for Cognitive Communication Deficits in Adults with Right Hemisphere Brain Damage*. Mentor: April Garrity, Communication Sciences and Disorders
17. Kristi Sagona, Kristin Moore, *A Systematic Review of Two Word-Finding Treatments in Persons with Aphasia Characterized by Anomia*. Mentor: April Garrity, Communication Sciences and Disorders
18. Breianna Maggard, Alexandra Allen, *It's the Twenty-First Century — Technology in Dementia Interventions Can Be Beneficial*. Mentor: April Garrity, Communication Sciences and Disorders
19. Shelby Griffin, Cecilia Ciaccia, *Functional Conversation Intervention in Right Hemisphere Disorder Populations*. Mentor: April Garrity, Communication Sciences and Disorders
20. Elizabeth Kwok, Vanessa Volz, *Taking a Closer Look: A Comparison of Cognitive Stimulation and Reminiscence Therapy*. Mentor: April Garrity, Communication Sciences and Disorders
21. Sabria Roberson, Melissa Shih, *A Comparison of Constraint-Induced Aphasia Therapy and Semantic Feature Analysis*. Mentor: April Garrity, Communication Sciences and Disorders
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Diagnostic and Therapeutic Sciences

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24. Sylvana Lheureux, Monique Wright, Kayla Ehl, *The Importance of Quality Assurance when Assessing Ultrasound Systems*. Mentor: Myka Bussey-Campbell, Diagnostic and Therapeutic Sciences
25. *Maggie Dunn, Danielle Cohen, Dulce Cruz, *The Use of Ultrasound in the Detection of Cervical Cancer*. Mentor: Myka Bussey-Campbell, Diagnostic and Therapeutic Sciences
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29. **Ben Phillips, *Influence of Community Engagement on Retention of First-Time College Freshmen*. Mentor: Lydia Cross, Education Prep

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30. **Hafsa Junaid, *Examining the Relationship between Spirituality and Quality of Life in College Students*. Mentor: Tilicia L. Mayo-Gamble, Health Policy & Community Health

Health Sciences and Kinesiology

31. Amanda Fernandez, Darell Parker, Stephan Corcho, Sean Langan, *Effect of Acute Low-Dose Capsaicin Supplementation on Skeletal Muscle Contractile Function*. Mentor: Gregory Grosicki, Health Sciences and Kinesiology

Physical Therapy

32. **Kendall Korte, Erin Moore, Paige Patrick, A Comparison of the Effects of High-Intensity Interval Training (HIIT) on Lower Extremity (LE) Muscular Power. Mentors: Frank Glenn, George Davies, Physical Therapy

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Psychology

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36. ^Kayla Capeles, "Mad Skills:" Skills-Based Syllabus and Course Results in Favorable Student Perceptions of Course, Instructor and Their Skill Sets. Mentor: Virginia Wickline, Psychology
37. Maria Victoria Lee, Briana Jasper, Megan O'Connor, Jordan Barnes, Madison Logan, *Color Me Wild! Assessing Color Preference in a Loggerhead Sea Turtle*. Mentors: Andrew Bulla, Erin Frick, Psychology
38. Sarah DesLauriers, Ky'aria Moses, *PowerPoint Spelling Errors, Information Retention and Perceived Instructor Professionalism*. Mentors: Joshua Williams, Nancy McCarley, Psychology

39. Alice Ionescu, Sarah DesLauriers, Amber Reagan, Ariyana Smith, *An Experimental Study of the Effect of Real vs. Manipulated Photo Exposure on Social Media Posting Behavior and Body Dissatisfaction in College Women*. Mentor: Wendy Wolfe, Psychology

40. Madison Logan, Megan O'Connor, *Like Mother Like Daughter: Similarities in Behavioral Patterns between Bottlenose Dolphin Mothers and Calves*. Mentor: Erin Frick, Psychology

41. *Megan O'Connor, Madison Logan, *Age-related Development of Personality-based Behavioral Patterns in Calf-cohorts of Bottlenose Dolphins (Tursiops truncatus)*. Mentor: Erin Frick, Psychology

42. Jordan Barnes, Morgan Duff, *A Comparison of the Effects of Two Variations of SAFMEDS in an Introductory Undergraduate Behavior Analysis Course*. Mentors: Jennifer Wortalik, Andrew Bulla, Psychology

43. ^Morgan Duff, Elizabeth Kersey, Talia Wind, Nicholas Laczko, Jordan Barnes, *Evaluating Fluent Performance of Daily Living Skills*. Mentors: Jennifer Wortalik, Andrew Bulla, Psychology

44. ^+Mary Kate Moore, *An Examination of Kant's Innate Categorical Synthesis*. Mentor: Christopher Robinson, Psychology

Rehabilitation Sciences

45. **Katie Jones, Alexis Gonzalez, Delicia Bell, *Effects of Education, Taping, and Stretching on Forward Head Posture and Muscular Trigger Points*. Mentors: Haley Worst, Nancy Henderson, Andi Beth Mincer, Rehabilitation Sciences
46. **Jackson Cervi, Sydney Askew, Nick Holley, Rachael Lacey, *The Effects of Visual Feedback on Lumbar Spinal Mobility in Subjects Without Low Back Pain*. Mentors: Andi-Beth Mincer, Haley Worst, Heather Lorden, Rehabilitation Sciences
47. Mackenzie Jeffries, Felicia Ashley, *Person-Centered Versus Family-Centered Care for Individuals with Dementia*. Mentor: April Garrity, Rehabilitation Sciences
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