

# 2018 URCA Conference Winners

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## Presentation Category Winners:

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## College Winners:

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## Presentation Category: Arts & Humanities

### First Place:

**Rhiannon Hein**

Mentor: Daniel Riches (A&S - History)

*Nationalist Sentiment in the Era of German Unification*

### Second Place:

**Meghan Poljak**

Mentor: Teri Henley (C&IS - Advertising and Public Relations)

*Public Relations Society of America Alabama Chapter: Developing an Ethical Logo*

### Third Place:

**Jennifer Fourroux, Kira Yancey**

Mentor: Christopher Lynn (A&S – Anthropology)

*Caregivers' Perspectives on the Human-Nonhuman Primate Relationship*

### Fourth Place:

**Sommer Hallquist**

Mentor: Rachel Stephens (A&S - Art and Art History)

*The Hallquist Trunk: A History of Norwegian Painted Chests and the Transfer of Norwegian Culture to America*

### Fifth Place:

**Emily Elia**

Mentor: Ana Corbalan (A&S - Modern Languages and Classics)

*Trauma and Dictatorships: Postmemory in Spanish and Argentinian Cinema*

## **Presentation Category: Business**

### **First Place:**

**Mike Finnegan, Connor Hollenbach**

Mentor: Paan Jindapon (C&BA - Economics, Finance and Legal Studies), Matthew Hampton (C&BA - Economics, Finance and Legal Studies)

*The Impact of Naloxone Accessibility on Opioid Overdose Rates*

### **Second Place:**

**Jordyn Kent**

Mentor: Chris Whaley (C&BA - Economics, Finance and Legal Studies)

*Star Wars: Rent-Seeking for Morningstar Ratings*

## **Presentation Category: Computer Science, MIS, Cybersecurity, & Statistics**

### **First Place:**

**Caroline Babbitt**

Mentor: David Hale (C&BA - Information Systems, Statistics and Management Science), Joanne Hale (C&BA - Information Systems, Statistics and Management Science)

*Evidence-Based Practices in System Development*

## Presentation Category: Education

### First Place:

#### Kira Wence

Mentor: Nathan Culmer (Community Health Sciences), Catanya Stager (Community Health Sciences)

*Evaluating Primary Care Medical Residents in Psychiatry Rotations: What's Important*

### Second Place:

#### Justin Crofoot

Mentor: Philip Westbrook (Education - Educational Leadership, Policy and Technology Studies), Elizabeth Wilson (Education - Curriculum and Instruction)

*No Child Left Behind Policy Critique*

### Third Place:

#### Erin Yepsen

Mentor: Stacy Hughey-Surman (Education - Educational Studies in Psychology, Research Methodology and Counseling), Elizabeth Wilson (Education - Curriculum and Instruction)

*The Financial Accessibility of Children's Museums in the US*

## Presentation Category: Engineering, Transportation, & Energy

### First Place (Tie):

#### Sydney Morales

Mentor: Luke Brewer (Engineering - Metallurgical and Materials Engineering), Tao Liu (Engineering - Metallurgical and Materials Engineering)

*Relationship between mechanical properties and microstructures of high pressure die casting AA383 alloy*

### First Place (Tie):

#### Jared Tubbs

Mentor: Andrew Dewar (A&S - New College), Todd Freeborn (Engineering - Electrical and Computer Engineering), Holland Hopson (A&S - New College)

Internal: Sonifying the Human Body

### Second Place:

#### Morgan Ross

Mentor: Greg Thompson (Engineering - Metallurgical and Materials Engineering), Chase Smith (Engineering - Metallurgical and Materials Engineering)

*Rapid Ultra-High Temperature Testing of TaC and HfC*

### Third Place:

#### Lauryn Woodyard

Mentor: Todd Freeborn (Engineering - Electrical and Computer Engineering), Memorie Gosa (A&S - Communicative Disorders)

*MATLAB software tool towards automated analysis of surface electromyography data to support clinical research of musculature activity during swallowing*

## Presentation Category: Health Sciences

### First Place:

**Kayleigh Meighan**

Mentor: Lesley Weaver (A&S - Anthropology)

*Disparities in Obstetric Care Experience Across Demographic Groups in Alabama*

### Second Place:

**Tomasz Gruchala**

Mentor: Alan Blum (Community Health Sciences)

*Digital Media Addiction: An Emerging Issue Among College Students*

### Third Place:

**Alex Huechteman**

Mentor: Alyssia Miller (A&S - Modern Languages and Classics)

*Community Needs Assessment of an Underserved Nicaraguan Population*

### Fourth Place:

**Lita Waggoner**

Mentor: Lori Turner (HES - Health Science)

*West Central Alabama AHEC: From High School to the Health Professions Pipeline*

### Fifth Place (Tie):

**Sara Kazyak**

Mentor: Amy Ellis (HES - Human Nutrition and Hospitality Management), Kristi Crowe-White (HES - Human Nutrition and Hospitality Management)

*Effects of Isoflavone Consumption on Risk Factors of Cardiovascular Disease in Post-Menopausal Women*

### Fifth Place (Tie):

**Victoria Lewis, Brittany Tretter**

Mentor: Michael Fedewa (Education - Kinesiology)

*DOMAIN-SPECIFIC CORRELATIONS BETWEEN PHYSICAL ACTIVITY INTENSITY AND CELL-PHONE ADDICTION IN COLLEGE STUDENTS*

### Sixth Place:

**Garrett Barnes**

Mentor: Seung Jung (HES - Human Nutrition and Hospitality Management), Yeon Shin (HES - Human Development and Family Studies), Alvin Niu (HES - Human Nutrition and Hospitality Management)

*Grocery Store Tour Increases Participants' Intentions to Purchase Fruits and Vegetables*

## Presentation Category: Life Sciences, Physical Sciences, Mathematics, & Water

### First Place:

**Joshua Goble**

Mentor: Kevin Kocot (A&S - Biological Sciences)

*The Biodiversity of Deep-Sea Icelandic Aplacophoran Molluscs*

### Second Place:

**Joline Hartheimer**

Mentor: Yonghyun (John) Kim (Engineering - Chemical and Biological Engineering), Shreyas Rao (Engineering - Chemical and Biological Engineering)

*Targeting Hyaluronan Interactions for Glioblastoma Stem Cell Therapy*

### Third Place:

**Donna Xia**

Mentor: David Dixon (A&S - Chemistry), Monica Vasiliu (A&S - Chemistry)

*Actinide Aqueous Hydrolysis Reactions: Initial Steps in Actinide Aggregation*

### Fourth Place:

**Matthew Cooper**

Mentor: Michael Steinberg (A&S - New College)

*Analyzing the Effect of Climate Change on Snow Leopard Habitat*

### Fifth Place:

**Taylor Perkins**

Mentor: Carolyn Cassady (A&S - Chemistry)

*Influencing Charge State Distribution of Biological Peptides via Electrospray Ionization Mass Spectrometry Using Chromium(III) Nitrate*

## Presentation Category: Social Sciences

### First Place:

#### Claire Manderfield

Mentor: Joan Barth (ISSR - Institute for Social Science Research)

*Gender Role Norms in High School Girls' Social Groups and STEM Interest*

### Second Place:

#### Alexis Winborne

Mentor: Darrin Griffin (C&IS - Communication Studies), Sevgi Gurbuz (Engineering - Electrical and Computer Engineering), Chris Crawford (Engineering - Computer Science), Ali Gurbuz (Engineering - Electrical and Computer Engineering)

*A Deaf centered approach to technological needs assessments for communicative assisted devices*

### Third Place:

#### McKenna McCracken

Mentor: Joan Barth (A&S - Psychology), Kelsey Chappetta (A&S - Psychology)

*Gender Differences In World of Warcraft*

### Fourth Place:

#### John Denton

Mentor: Bronwen Lichtenstein (A&S - Criminal Justice)

*Accept or Decline?: Deciding Factors in a Voluntary HIV Testing Program for Probationers and Parolees*

### Fifth Place:

#### Kylie Hopkins

Mentor: Bronwen Lichtenstein (A&S - Criminal Justice)

*Is Divorce Fair?: The Gender Dynamics of Property Disposition*

### Sixth Place (Tie):

#### Elizabeth (Ashley) Stinson, Melissa Sharpe

Mentor: Tricia Witte (HES - Human Development and Family Studies)

*Examining Limitations in Substance Use Treatment and Recovery Outcomes in Rural vs Urban Communities Across the United States*

### Sixth Place (Tie):

#### Melissa Sharpe

Mentor: Michael Fedewa (Education – Kinesiology), Rachel Sanders (Education – Kinesiology)

*Examining Predictors of Opioid Use in College Students*



# Capstone College of Nursing

## **First Place:**

### **Cassidy Kelley, Ambley Chambers**

Mentor: Memorie Gosa (A&S - Communicative Disorders), Olivia May (Nursing - Capstone College of Nursing)

*Defining Successful Feeding: An Evidence Based Systematic Review*

## **Second Place:**

### **Amira Aquino**

Mentor: Juan Lopez-Bautista (A&S - Biological Sciences), Gabriela Garcia-Soto (A&S - Biological Sciences)

*Acanthophora dendroides Harvey: a new record for the Atlantic Ocean*

## **Top Work in Progress Winner:**

### **Brooke Bambis**

Mentor: Ann Graves (Nursing - Capstone College of Nursing)

*A scoping literature review: Access to diabetes health services using Geographical Information Systems*

## College of Arts & Sciences-Fine Arts & Humanities

### **First Place:**

**Moon Yang**

Mentor: John Estes (A&S - English)

*Tracing Heath*

### **Second Place:**

**Abigael Furman**

Mentor: Dilin Liu (A&S - English)

*Great, Awesome, Terrific, and Fantastic: Analyzing the Lexical Semantic Change of a Set of Near Synonyms using Corpora*

### **Third Place:**

**Molly Buffington**

Mentor: George McClure (A&S - History)

*A Faith That Sings: Lutheran Liturgy as a Theological Tool in the Reformation*

## College of Arts & Sciences-Natural Sciences

### **First Place:**

#### **Abigail Rankin**

Mentor: Carla Atkinson (A&S - Biological Sciences), Brian van Ee (A&S - Biological Sciences)

*Nutrient Limitations and the Effects of Mussel Abundance on Primary Productivity in the Sipsey River*

### **Second Place (Tie):**

#### **Emma Neumann, Jack Houck**

Mentor: Michael McKain (A&S - Biological Sciences)

*Evolutionary Relationships of Blueberries and Their Relatives*

### **Second Place (Tie):**

#### **Lillian Vogelsong, Abigail Sisti, Allison Diamond**

Mentor: Michael Steinberg (A&S - Geography)

*Wrack Line Pollution on Belizean Barrier Islands*

### **Second Place (Tie):**

#### **Jacob Powell**

Mentor: Preethi Nair (A&S - Physics and Astronomy)

*The Importance of Mergers in the Growth of Galaxies*

### **Top Work in Progress Winner (Tie):**

#### **Benjamin Jones**

Mentor: Shan Zhao (A&S – Mathematics), Sheik Ullah (A&S – Mathematics)

*Improving Effectiveness of Time Splitting Methods for Electrostatic Analysis of Solvated Biomolecules*

### **Top Work in Progress Winner (Tie):**

#### **Grace Liu**

Mentor: Ann Graves (Nursing – Capstone College of Nursing)

*Geographical analysis of diabetes education services in Alabama*

### **Top Work in Progress Winner (Tie):**

#### **Neil Shimer**

Mentor: Timothy Snowden (A&S - Chemistry), Kyle Black (A&S - Chemistry)

*Exploration of Improved Preparations of Stereodefined Imidoyl Halides*

*Evolutionary Relationships of Blueberries and Their Relatives*

## College of Arts & Sciences-Social Sciences

### **First Place:**

#### **Nicholas Boehm**

Mentor: Will Hart (A&S - Psychology), Gregory Tortoriello (A&S - Psychology)

*Affective Reactions to Online Social Comparison in Vulnerable and Grandiose Narcissists*

### **Second Place:**

#### **Grace Parente**

Mentor: Jason Scofield (HES - Human Development and Family Studies), Catanya Stager (Education - Educational Studies in Psychology, Research Methodology and Counseling)

*Adults' Judgments of Contrasting Words*

### **Top Work in Progress Winner (Tie):**

#### **Angelina Jones**

Mentor: Fran Conners (A&S - Psychology)

*Cognitive Decline in Down Syndrome Adolescents and Adults*

### **Top Work in Progress Winner (Tie):**

#### **Lauren McGuire**

Mentor: Ian McDonough (A&S - Psychology)

*Encoding Activity in Sedentary versus Physically Active Jobs using fMRI*

## College of Communication & Information Sciences

### **First Place:**

#### **Jesse Tollison**

Mentor: Jeremy Butler (C&IS - Telecommunication and Film)

*Why Vine Died: A Deconstruction of Vine as an Artistic Social Media*

### **Second Place:**

#### **Madeline Hirschfield**

Mentor: Carol Mills (C&IS - Communication Studies)

*Political Discussions Within the Family: Examining Difficult Family Conversations*

### **Top Work in Progress Winner:**

#### **Mackenzie Pike**

Mentor: Darrin Griffin (C&IS - Communication Studies)

*Examining Power Through Nonverbal Communication in Professor's Online Profile Photos*

## College of Education

### **First Place:**

#### **Ross D'Entremont**

Mentor: Brenda Mendiola (Education - Educational Leadership, Policy and Technology Studies), Elizabeth Wilson (Education - Curriculum and Instruction), Mary Givens (Education - Educational Leadership, Policy and Technology Studies)

*Effects of the Alabama Accountability Act on Rural versus Urban Private Schools*

### **Second Place:**

#### **Rachel Remmes**

Mentor: Firat Soylu (Education - Educational Studies in Psychology, Research Methodology and Counseling)

*Structural Brain Features Associated with Autism in Children: a VBM Study*

### **Top Work in Progress Winner:**

#### **Jessica Bentley**

Mentor: Michael Fedewa (Education - Kinesiology)

*The Effect of Celiac Disease on Bone Health in Children and Adolescents: a Systematic Review and Meta-analysis*

## College of Engineering

### **First Place:**

#### **Morgan Ross**

Mentor: Greg Thompson (Engineering - Metallurgical and Materials Engineering), Chase Smith (Engineering - Metallurgical and Materials Engineering)

*Rapid Ultra-High Temperature Testing of TaC and HfC*

### **Second Place:**

#### **Dennis Parnell Jr.**

Mentor: Joshua Bittle (Engineering – Mechanical Engineering)

*Demonstrating a direct-injection constant-volume combustion chamber as a validation tool for chemical kinetic modeling of liquid fuels*

### **Top Work in Progress Winner:**

#### **Kyle Leonard**

Mentor: Chris Brazel (Engineering - Chemical and Biological Engineering)

*Characterizing the Toxicity of Ionic Liquids to Mammalian Systems*

## College of Human Environmental Sciences

### First Place:

#### **Amber Wesoloski, Emily Goldstein**

Mentor: Sherwood Burns-Nader (HES - Human Development and Family Studies), Jack Sykstus (HES - Human Development and Family Studies)

*Examining the Effectiveness of the Buzz in Pediatric Patients Undergoing an Injection*

### Second Place:

#### **Taylor Burns**

Mentor: Kristi Crowe-White (HES - Human Nutrition and Hospitality Management), Amy Ellis (HES - Human Nutrition and Hospitality Management)

*Knowledge and Intake of Nutrient-dense Dietary Patterns are Deficient among College Students*

### Third Place:

#### **Genevieve Smith**

Mentor: Shinae Choi (HES - Consumer Sciences)

*Mental Health of Full-time Aging Workers*

### Top Work in Progress Winner:

#### **D'Kota Wyatt**

Mentor: Dr. Maria Hernandez-Reif (HES - Human Development and Family Studies), Nahide Gungordu (HES - Human Development and Family Studies)

*Sleep and Cortisol Levels in Early Childhood*

## Culverhouse College of Commerce

### First Place:

#### **Cory Myers, Austin George**

Mentor: David Ford (C&BA - Management and Marketing)

*Socio-Economic Impact of West Alabama Non-Profits*

### Second Place:

#### **Harry Tenenbaum**

Mentor: Greg Bott (C&BA - Information Systems, Statistics and Management Science)

*Mobile Payment Adoption*

### Top Work in Progress Winner:

#### **Parker Wilgus**

Mentor: Mesut Yavuz (C&BA - Information Systems, Statistics and Management Science)

*The Traveling Governor Problem*