25th Annual EURēCA
EXHIBITION OF UNDERGRADUATE RESEARCH AND CREATIVE ACHIEVEMENT

CELEBRATING TWENTY-FIVE YEARS OF EXCELLENCE IN UNDERGRADUATE RESEARCH

April 19-23 2021
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Welcome to the University of Tennessee’s 25th annual Exhibition of Undergraduate Research and Creative Achievement (EURēCA). This event honors original and creative works completed by undergraduate students as the highlight of Research Week events and celebrations. The Office of Undergraduate Research and Fellowships coordinates this unique competition to encourage, support, and reward undergraduate participation in the campus research enterprise. Participating in campus research empowers students to produce original work, develop faculty mentoring relationships, enhance their resumes, and become more competitive when applying to graduate school. EURēCA continues to expand its opportunities to participate. This year’s event will be held in a virtual format due to the COVID-19 pandemic. We are proud of our students’ resilience during this time as they adjust to new, virtual formats. The diverse array of exhibits and performances highlights a broad range of endeavors and approaches, including both individual and collaborative efforts, as well as research produced both within and outside the classroom. Student research posters can be viewed in our online symposium at symposium.foragerone.com.

Awards are provided by colleges for college and divisional awards. The Office of Undergraduate Research recognizes student achievement across the colleges. This event would not be possible without the hard work of many individuals. We send a big thank you to our division representatives in organizing the participants from their areas and to our judges for all of their hard work in selecting this year’s winners.

We would especially like to thank each of you for taking the time to visit the event, engage with the students, and support the excellent undergraduate research and creative activity at the University of Tennessee, Knoxville. If you would like to become more involved in undergraduate research, I encourage you to take advantage of our enhanced institutional membership of the Council on Undergraduate Research as well as contact our office for information on how to get started.

Sincerely,

The University of Tennessee
Office of Undergraduate Research and Fellowships
Exhibition of Undergraduate Research & Creative Achievement

We are excited to be able to continue with EURēCA in virtual format again this year, allowing students to present their research to judges on the platform RocketJudge, as well as showcase their research posters and video presentation online at symposium.foragerone.com. Although the global COVID-19 pandemic has presented a challenging landscape, our students continued their pursuit of knowledge and creative works, and we are proud of their resilience and flexibility. Their research covers many different disciplines, from music to mechanical engineering to stock market studies, and are categorized into the following judging divisions:

- College of Architecture and Design
- College of Architecture and Design, School of Design
- College of Arts and Sciences, Humanities
- College of Arts and Sciences, Natural Sciences
- College of Arts and Sciences, Social Sciences
- College of Arts and Sciences, School of Music
- College of Arts and Sciences, Honors English 298
- College of Communication and Information
- College of Education, Health, and Human Sciences
- College of Nursing
- College of Social Work
- Haslam College of Business
- Herbert College of Agriculture
- Tickle College of Engineering
Exhibition of Undergraduate Research and Creative Achievement

2021 Division Representatives

Larry McKay
College of Arts & Sciences

Kristina McCue
College of Arts & Sciences, Honors English 298

Hollie Raynor
College of Education, Health, and Human Sciences

Tyler Wall
College of Arts & Sciences, Social Sciences

Koichi Yamamoto
College of Arts & Sciences, School of Art

Kevin Kit
Tickle College of Engineering

Jeremiah Johnson
College of Arts & Sciences, Natural Sciences

Tracy Moir-McClean
College of Architecture & Design

Brent Lamons
Herbert College of Agriculture

Elias Fernandez
College of Arts & Sciences, Natural Sciences

Cary Staples
College of Architecture & Design, School of Design

Bill Nugent
College of Social Work

Stefanie Ohnesorg
College of Arts & Sciences, Humanities

Suzie Allard
College of Communication and Information

Beth Meko
College of Communication and Information

Karen Messing
College of Nursing

Kathleen Thompson
College of Nursing

Thank you to all of our division representatives who put in countless hours to make this event a success!

Office of Undergraduate Research and Fellowships

Andrew Seidler
Director, Office of Undergraduate Research and Fellowships

Julianna Tullos
Interim Program Coordinator
Administrative Specialist
# Exhibition of Undergraduate Research and Creative Achievement 2021

## Schedule of Events

<table>
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<tr>
<th>Monday, April 19</th>
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<tr>
<td>4:45 p.m. – 5:00 p.m.</td>
<td>EURēCA Kickoff with Director Andrew Seidler and Vice Provost for Student Success Amber Williams Zoom</td>
</tr>
<tr>
<td>5:00 p.m. – 8:00 p.m.</td>
<td>Exhibition of Group A opens for judging and viewing RocketJudge</td>
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<tr>
<th>Friday, April 23</th>
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<tbody>
<tr>
<td>5:00 p.m.</td>
<td>EURēCA Awards Ceremony Zoom</td>
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</table>

We invite you to view the research posters from this year’s event at Symposium.foragerone.com
# The College of Architecture & Design

<table>
<thead>
<tr>
<th>#2 Morgan Doherty</th>
<th>#10 Zachary Orig</th>
<th>#16 Rachel White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major: Architecture</td>
<td>Major: Architecture</td>
<td>Major: Architecture</td>
</tr>
<tr>
<td>Faculty Mentor: Ambroziak, Brian Michael</td>
<td>Faculty Mentor: Akerman, Jennifer Alford</td>
<td>Faculty Mentor: Akerman, Jennifer Alford</td>
</tr>
<tr>
<td>Project Title: BIOLUMINESCENCE</td>
<td>Project Title: Terra Incognita: Post-Traumatic Infrastructural Opportunism</td>
<td>Project Title: [dis]comfort on display</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>#3 Kari Essary, Aubrey Bader</th>
<th>#11 Katherine Pennington</th>
<th>#17 Nicholas Williams</th>
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</thead>
<tbody>
<tr>
<td>Major: Architecture</td>
<td>Major: Architecture</td>
<td>Major: Architecture</td>
</tr>
<tr>
<td>Faculty Mentor: Madl, Andrew</td>
<td>Faculty Mentor: Ambroziak, Brian Michael</td>
<td>Faculty Mentor: Davis, Marleen Kay</td>
</tr>
<tr>
<td>Project Title: Alta-ternaire: Investigating Frameworks for Ecological Restoration and Economic Development</td>
<td>Project Title: TERRITORIAL PARALLAX: An agricultural paradigm</td>
<td>Project Title: Knoxville Drone Transit Research</td>
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<tr>
<th>#5 Parker Greene</th>
<th>#12 Margaret Redding</th>
<th>#18 Courtney Apedaile</th>
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<tbody>
<tr>
<td>Major: Architecture</td>
<td>Major: Architecture</td>
<td>Major: Graphic Design</td>
</tr>
<tr>
<td>Faculty Mentor: Ambroziak, Brian Michael</td>
<td>Faculty Mentor: Akerman, Jennifer Alford</td>
<td>Faculty Mentor: Staples, Cary</td>
</tr>
<tr>
<td>Project Title: Curation of Spatial Moments</td>
<td>Project Title: Artifice Domesticity: Analyzing queer identity’s situation in the 21st century home</td>
<td>Project Title: Carnivore to Herbivore</td>
</tr>
</tbody>
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<thead>
<tr>
<th>#6 Walter Hall</th>
<th>#13 Jessica Rice, Deyn McCarty, Elizabeth Stolarski</th>
<th>#19 Michael Bloodworth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major: Architecture</td>
<td>Major: Architecture</td>
<td>Major: Graphic Design</td>
</tr>
<tr>
<td>Faculty Mentor: Ambroziak, Brian Michael</td>
<td>Faculty Mentor: Rose, James Richard</td>
<td>Faculty Mentor: Staples, Cary</td>
</tr>
<tr>
<td>Project Title: UTK Art Museum + Liberated From Storage</td>
<td>Project Title: Sequoyah Hills Park Community Center and Boathouse</td>
<td>Project Title: Confronting Eco-Nihilism through Immersive Storytelling</td>
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<tr>
<th>#7 DeMauri Mumphrey</th>
<th>#14 Nicholas Van Son</th>
<th>#20 Michael Bloodworth, Taylor Jefferson</th>
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<tbody>
<tr>
<td>Major: Architecture</td>
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<td>Major: Graphic Design</td>
</tr>
<tr>
<td>Faculty Mentor: Davis, Marleen</td>
<td>Faculty Mentor: Guerguis, Maged Samir</td>
<td>Faculty Mentor: Boyd, Karen</td>
</tr>
<tr>
<td>Project Title: Memory and Mourning: Multi-Level Research on Race, Religion, and Death</td>
<td>Project Title: Additive Manufacturing Applications: From Personal Protective Equipment to Sustainable Construction</td>
<td>Project Title: Exploring User Experiences through Montgomery 1960</td>
</tr>
</tbody>
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<th>#9 Brian Nachtrab</th>
<th>#15 Allison Ward</th>
<th>#21 Cadie Chapell</th>
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<tr>
<td>Major: Architecture</td>
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<td>Faculty Mentor: Akerman, Jennifer Alford</td>
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<td>Faculty Mentor: Staples, Cary</td>
</tr>
<tr>
<td>Project Title: A Nation is a Machine for Capital</td>
<td>Project Title: Re-Manufactured Identities</td>
<td>Project Title: Escaping the Herbaceous</td>
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# The College of Architecture & Design, School of Design

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<thead>
<tr>
<th>#18 Courtney Apedaile</th>
<th>#19 Michael Bloodworth</th>
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<tbody>
<tr>
<td>Major: Graphic Design</td>
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<tr>
<td>Faculty Mentor: Staples, Cary</td>
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<td>Project Title: Carnivore to Herbivore</td>
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<td>Major: Graphic Design</td>
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<td>Faculty Mentor: Boyd, Karen</td>
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</tr>
<tr>
<td>Project Title: Exploring User Experiences through Montgomery 1960</td>
<td>Project Title: Escaping the Herbaceous</td>
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</table>
# 22 Ryan Cook  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: VRhizosphere: Virtual Reality Exploration of The Changing Mycorrhiza

# 23 Riley Doty  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Plant Personalities

# 24 Brandon Gardner  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Below-Ground Community Builder

# 25 Anna Gorman  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: A Plant’s Perspective

# 26 Stephanie Green  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Sensory Garden: Equal Access

# 27 Addie-Grace Hopper  
Major: Graphic Design/Illustration  
Faculty Mentor: Staples, Cary  
Project Title: Growing Connections

# 28 Samantha Huang  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Stewardship: Inspiring Awareness of Invasive Plants

# 29 Taylor Kolnick  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: From Fungi to Fun Guys: The Interconnectedness of Earth’s Communities

# 30 Martha Ryan  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Fast Fashion

# 31 Madeleine Smith  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Exploration of Campus Environments

# 32 Casey Taylor  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Packaging and Our Environment

# 33 Allie Torres-Lopez  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Food Independence Through Sustainable Gardening in Urban Cities

# 34 Jaylin Witherspoon  
Major: Graphic Design  
Faculty Mentor: Staples, Cary  
Project Title: Pollinators Are In Danger

# 35 Stephanie Bias, Bryceton Bible  
Major: Modern Foreign Lang/Literature  
Faculty Mentor: Gallmeier, Maria B  
Project Title: Engaging Students with Peer Mentoring and Discord

# 36 Aubrey Bader  
Major: German  
Faculty Mentor: Ohnesorg, Stefanie  
Project Title: BUGA-MA: Can a Festival bring Sustainable Urban Development to a City?

# 37 Graham Newport  
Major: History  
Faculty Mentor: Phillips, Denise  
Project Title: Gregory of Tours: A Lifetime of Influence

# 38 Colton Ragsdale  
Major: History  
Faculty Mentor: Block, Kristen Jean  
Project Title: Crafting History: Uncovering, Understanding, and Producing the Stories of Enslaved Women in Jamaica: 1751-1755

# 39 Sydney Selman  
Major: Political Science  
Faculty Mentor: Nicks, Robin Jean Gray  
Project Title: _Not That Bad_: Lessons Women Learn in a Rape Culture
#45 Konrad Szymanowski  
Major: College Scholars Program  
Faculty Mentor: Ohnesorg, Stefanie  
Project Title: Tschernobyl-am-Main: Cultural Depictions of Environmental Disaster in German Media

#50 James Buchanan  
Major: Chemical Engineering  
Faculty Mentor: Krishnan, Keerthi  
Project Title: Understanding ultrasonic vocalizations during mouse pup retrieval through a quantitative approach

#51 Allison Campbell  
Major: Biochem/Cellular/Molecular Bio  
Faculty Mentor: Goldman, Mitchell  
Project Title: The Diagnostic Dilemma of Shunt Malfunction and Statistical Analysis of Symptoms

#52 Mia Cantrell  
Major: Physics  
Faculty Mentor: Grzywacz-Jones, Katherine  
Project Title: Measuring the Properties of a Supersonic Gas Jet Target

#53 Midnight Carroll  
Major: Biochem/Cellular/Molecular Bio  
Faculty Mentor: Roberts, Daniel M  
Project Title: Investigating the Role of Calcium in the CML38-SGS3 Protein-Protein Interaction

#54 Jason Cornello, Lillian Mooney, Christopher Quizhpe, Tarek Atiya, Paula Pimiento  
Major: Chemical Engineering  
Faculty Mentor: Sharma, Bhavya  
Project Title: Development of Spectroelectrochemistry for Detection of Neurotransmitters

#55 Isabelle Dancer, Avery Wood  
Major: Chemistry  
Faculty Mentor: Sharma, Bhavya  
Project Title: Research and Development of Natural, Microemulsion Lotions and Spice Extracted Dyes

#56 Jessica DeCuyper, Nicholas Mucci  
Major: Microbiology  
Faculty Mentor: Goodrich-Blair, Heidi  
Project Title: Inhibition of nematode species by a small molecule produced by a bacterial symbiont

#57 Jenna Demeter  
Major: Biology  
Faculty Mentor: Bettaieb, Ahmed  
Project Title: Analyzing Sources of Nutrient Pollution in Baker Creek using Stable Isotope Tracers

#58 Jack Elliott  
Major: Geology and Environmental Stdy  
Faculty Mentor: Szynkiewicz, Anna  
Project Title: Analyzing Sources of Nutrient Pollution in Baker Creek using Stable Isotope Tracers

#59 Matthew Everett  
Major: Biochem/Cellular/Molecular Bio  
Faculty Mentor: Krishnan, Keerthi  
Project Title: Mild atypical subregion-specific perineuronal net expression in CDKL5 mutant mouse model

#60 Marie Franzen  
Major: Chemical Engineering  
Faculty Mentor: Kilbey, Michael  
Project Title: CHMA/MMA Copolymer Studies

#61 Katey Gibson  
Major: Biological Sciences  
Faculty Mentor: Roberts, Daniel M  
Project Title: Determining the selectivity of Type I and Type II pores in Nodulin 26 Intrinsic Proteins
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<tr>
<th>#</th>
<th>Name</th>
<th>Major</th>
<th>Faculty Mentor</th>
<th>Project Title</th>
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<tr>
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<td>Cory Hale</td>
<td>Ecology/Evolutionary Biology</td>
<td>Schilling, Edward</td>
<td>Arisaema triphyllum: a genetic evaluation of the subspecies relationships</td>
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<td>63</td>
<td>Leila Hennon</td>
<td>Neuroscience</td>
<td>Cooper, Matthew A</td>
<td>Exploring the Neurobiological Effects of Play Deprivation in Syrian Hamsters</td>
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<td>64</td>
<td>Elijah Hix</td>
<td>Chemistry</td>
<td>Vogiatzis, Konstantinos</td>
<td>Computational Study on a PEGylated Tin-Porphyrin Complex for Electrocatalytic Proton Reduction</td>
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<tr>
<td>65</td>
<td>Mackenzie Hooker, Conner Whitten, Matthew Jenkins</td>
<td>Neuroscience</td>
<td>Bailey, Constance</td>
<td>Populus - microbe interactions are influenced by Host Drought Tolerance and Environmental Stress</td>
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<tr>
<td>66</td>
<td>Morgan House</td>
<td>Biochem/Cellular/Molecular Bio</td>
<td>Labrador-San Jose, Mariano</td>
<td>Investigating the Liquid Phase Separation Properties of Insulator Proteins</td>
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<td>67</td>
<td>Thomas Hyde</td>
<td>Microbiology</td>
<td>Mikucki, Jill</td>
<td>Antarctic Microbes Exhibit Ability to Colonize Plant Tissue</td>
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<tr>
<td>69</td>
<td>Matthew Jenkins, Joshua King</td>
<td>Neuroscience</td>
<td>Cooper, Matthew A</td>
<td>Social dominance alters neural activity within a medial amygdala to bed nucleus of stria terminalis pathway.</td>
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<tr>
<td>70</td>
<td>Brandon Kristy</td>
<td>Plant Sciences</td>
<td>Cregger, Melissa</td>
<td>Exploring the Neurobiological Effects of Play Deprivation in Syrian Hamsters</td>
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<td>71</td>
<td>Katelyn Laughon, Brett Smith</td>
<td>Chemical Engineering</td>
<td>Vogiatzis, Konstantinos</td>
<td>Elucidation of Potential Fe(II) Tetracarbene Catalysts for Aziridination Reactions</td>
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<tr>
<td>73</td>
<td>Nicholas Legaux, Alicia Doerr, Justin Burroughs</td>
<td>Biochem/Cellular/Molecular Bio</td>
<td>Krishna, Keerthi</td>
<td>Understanding the Origin of Inclined Stromatolites</td>
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<tr>
<td>74</td>
<td>Will Leone</td>
<td>Psychology</td>
<td>Ganusov, Vitaly</td>
<td>Mycobacterium tuberculosis dynamics in individual granulomas of monkeys is constrained by host environment</td>
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<tr>
<td>75</td>
<td>Samuel Liske, Matthew Jenkins, Harry Pepper, Ariel Lathan</td>
<td>Neuroscience</td>
<td>Burghardt, Gordon M</td>
<td>Responses of Sibling Juvenile Eastern Garter Snakes (Thamnophis sirtalis) to Own, Conspecific, and Control Chemical Stimuli</td>
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<tr>
<td>76</td>
<td>Jonathan Lochner</td>
<td>Chemical Engineering</td>
<td>Bailey, Constance</td>
<td>Synthetic Biology and Enzymology of trans-Acyltransferase Polyketide Synthases from Bacillus Subtilis</td>
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<tr>
<td>77</td>
<td>Meher Memon</td>
<td>Biological Sciences</td>
<td>Park, Jae H</td>
<td>Identifying the Genomic Location of the P-transposable Element in Drosophila melanogaster via Molecular Approaches</td>
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<tr>
<td>78</td>
<td>Julian Nosarzewski</td>
<td>Geology and Environmental Stdy</td>
<td>Kah, Linda C</td>
<td>Unraveling the Paleozoic Ophiuroid Mystery: Identification of Mississippian Age Brittle Star (Ophiuroidea, Echinodermata) Vertebrae and Lateral Arm Plates from Disarticulated Ossicles</td>
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<tr>
<td>#81 Abdullah Salim</td>
<td>#82 Abigail Sallee</td>
<td>#83 Alexandra Scearce</td>
<td>#84 Olivia Schwamberger</td>
<td>#85 Eric Smith</td>
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<tr>
<td>Faculty Mentor: von Arnim, Albrecht G</td>
<td>Faculty Mentor: Lin, Jun</td>
<td>Faculty Mentor: Williams, Joseph Hill</td>
<td>Faculty Mentor: Roberts, Daniel M</td>
<td>Faculty Mentor: Szynekiewicz, Anna</td>
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<tr>
<td>Project Title: A Tissue Specific Transcriptomic, Proteomic and Phospho-proteomic Atlas of the Translational Machinery of Arabidopsis thaliana</td>
<td>Project Title: Longitudinal surveillance and characterization of Escherichia albertii in Wild Raccoons</td>
<td>Project Title: Petal length and style length comparison between island and mainland flowers</td>
<td>Project Title: A preliminary investigation of Arabidopsis factors required for the hypoxia induced autophagy response</td>
<td>Project Title: Assessing Environmental Processes Contributing to Sulfate Formation on Mars Using Antarctic Analogs</td>
</tr>
</tbody>
</table>
#97 Kevin Zeng, Jacob Wood  
**Major:** Biochem/Cellular/Molecular Bio  
**Faculty Mentor:** Park, Jae H  
**Project Title:** Molecular and Behavioral Characterization of Clock Mutant, Clk2284 and Clk2566, in Drosophila Melanogaster

---

#101 Blake Farrell  
**Major:** Psychology  
**Faculty Mentor:** Stuart, Gregory Lyal  
**Project Title:** Antisocial Personality Traits Link College Students’ Family of Origin Violence and Emotional Partner Abuse

---

#108 Avery Patterson, Rachel Maskin  
**Major:** Psychology  
**Faculty Mentor:** Welsh, Deborah P  
**Project Title:** The Effects of Authenticity and Social Support on Depression during the COVID-19 Pandemic

---

#98 Keri Burge  
**Major:** Anthropology  
**Faculty Mentor:** Janzen, Anneke  
**Project Title:** Exploring Early Colonial Foodways and Animal Husbandry Practices Through Zooarchaeology by Mass Spectrometry (ZooMS): Preliminary Results

---

#102 Mary Jensen, Alisa Garner  
**Major:** Psychology  
**Faculty Mentor:** Stuart, Gregory Lyal  
**Project Title:** Shorter Relationships at Risk for Sexting-Linked Intimate Partner Violence

---

#109 Owen Queen, Vincent Jodoin, Leigh Pearcy  
**Major:** Mathematics  
**Faculty Mentor:** Strickland, Christopher  
**Project Title:** Agent-Based Social Network Models of the Prescription Opioid Epidemic

---

#103 Margaret Lee  
**Major:** Sociology  
**Faculty Mentor:** Gellert, Paul Kenneth  
**Project Title:** TVA as a Public Corporation? Increasingly Neoliberal Governance and Declining Citizen Participation

---

#104 Peibo Li  
**Major:** Biology  
**Faculty Mentor:** Hwang, Woonjae  
**Project Title:** China’s Hainan Free Trade Port and its impact to the regional and global economy.

---

#105 Alexis McCraw  
**Major:** Psychology  
**Faculty Mentor:** Buss, Aaron Thomas  
**Project Title:** Enhancing Neural Activation of 3-Year-Olds During an Executive Function Task: An fNIRS Study of Executive Function Training

---

#106 Ashley Miller  
**Major:** Psychology  
**Faculty Mentor:** Buss, Aaron Thomas  
**Project Title:** Vocabulary Skills Predict Decision-Making

---

#99 Keri Burge, Katelynn Cox, Jarrett Burgess  
**Major:** Anthropology  
**Faculty Mentor:** Davis, Mary Charlesie  
**Project Title:** The Effect of Body Mass Index on Human Decomposition

---

#107 Elizabeth Cousins  
**Major:** Neuroscience  
**Faculty Mentor:** Allen, Kristy Elizabe  
**Project Title:** Are Cognitive Biases Associated with Anxiety and Temperament in a Community Sample? A Mobile Eye Tracking Study

---

#108 Avery Patterson, Rachel Maskin  
**Major:** Psychology  
**Faculty Mentor:** Welsh, Deborah P  
**Project Title:** The Effects of Authenticity and Social Support on Depression during the COVID-19 Pandemic

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#110 Clare Remy  
**Major:** Anthropology  
**Faculty Mentor:** Mundorff, Amy  
**Project Title:** Reconstructing the History of Koch Cemetery

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#111 Roland Rodriguez  
**Major:** Neuroscience  
**Faculty Mentor:** Cooper, Matthew  
**Project Title:** Androgen receptor expressing neurons in the medial amygdala facilitate stress resilience in dominant individuals

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#112 Erynne Turner, Rachel Maskin  
**Major:** Psychology  
**Faculty Mentor:** Welsh, Deborah P  
**Project Title:** Religiosity and Its Effects on Internalized Homonegativity

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#113 Jessica Wysor  
**Major:** Psychology  
**Faculty Mentor:** Lamer, Sarah A  
**Project Title:** You do what we think: The role of normative group beliefs in enacting gender bias
The College of Arts & Sciences, Visual and Performing Arts

#115 Thea Brannon, Tena Beard
Major: Art History
Faculty Mentor: Wood, Kelli
Project Title: Women on the Move

#116 Lauren Farkas
Major: Art
Faculty Mentor: Lyons, Beauvais
Project Title: The Vine Art Exhibition

#117 Alaina Lockhart
Major: Art
Faculty Mentor: Lyons, Beauvais
Project Title: Beauty & Bite

The College of Arts & Sciences, School of Music

#118 Jeremy Simmons, Caleb Cannon, Zachary Miller, Michael Wiley, Emily Martinez-Perez, Elise Campbell, Cait Lunsford, Brittany Alexander, Lane Thames
Major: Music, Stringed Instruments
Faculty Mentor: Herndon, Hillary
Project Title: Celebrating Diversity in String Music

The College of Arts & Sciences, Education, Health, and Human Sciences

#119 Tiarra Baker
Major: Mathematics
Faculty Mentor: Hodge, Lynn Liao
Project Title: How Much Homework is Appropriate to Assign?

#120 Jessica Beaven
Major: Nutrition
Faculty Mentor: Bettaieb, Ahmed
Project Title: Novel insights into the role of epoxygenated fatty acids in the adipogenesis of white and brown adipocytes.

#121 Payton Benko
Major: Kinesiology
Faculty Mentor: Coe, Dawn Podulka
Project Title: Observation of Physical Activity and the Development of Nature-Based Activity Components for the OSRAC-P

#122 Katelyn Bertou, Natasha Sims, Jonathan Conricode
Major: Mathematics
Faculty Mentor: Kirkpatrick, Yolanda
Project Title: Creativity Using Functions: Assessing Students Understanding of Functions Using Graphs

#123 Cody Blankenship
Major: Computer Science
Faculty Mentor: Hodge, Lynn Liao
Project Title: Next Level STEM

#124 Macy Burchfield, Alexandria Whitaker, Caleb Reimschisel, John Hussey
Major: Mathematics Education
Faculty Mentor: Kirkpatrick, Yolanda
Project Title: Strengthening Students’ Understanding Through Project Based Learning

#125 Sara Burnette
Major: Biological Sciences
Faculty Mentor: Chen, Jiangang
Project Title: Healthcare infrastructure, pandemic policies, and effectiveness: Lessons learned from India’s response to COVID-19

#126 Caroline Crocker
Major: Biological Science
Faculty Mentor: Meschke, Laurie L
Project Title: Applying a Positive Youth Approach to Adolescent Sexual Violence Prevention

#128 Allyssa Evans, Jacob Knight, Meghan Sliwa
Major: Chemistry
Faculty Mentor: Kirkpatrick, Yolanda
Project Title: Mission Mars: The Importance of Understanding Martian Exploration

#129 Olivia Garrett
Major: Neuroscience
Faculty Mentor: Porter, Jared Marak
Project Title: Basketball shooting accuracy in the WNBA is improved following the COVID-19 lockdown

#130 Nicholas Gill
Major: Biological Science
Faculty Mentor: Bettaieb, Ahmed
Project Title: Treatment with Zyflamend Improves Insulin Signaling in Skeletal Muscle Cells
The College of Nursing

#139 Nesma Abdelnabi, Gracie Baker-Hogan, Amanda Schmidle, Gavin Blakely
Major: Nursing
Faculty Mentor: Green-Laughlin, DelLyndia
Project Title: The Effects of Delaying First Bath Time on Hypothermia, Breastfeeding Initiation, and Skin Integrity

#140 Hannah Anderson, Holly Del Bucchio, Anna Klepzig, Meredith Myers
Major: Nursing
Faculty Mentor: Kiernan, Jason Micheal
Project Title: Improving clinical outcomes with provider mental health training

#141 Katie Andrzejewski
Major: Nursing
Faculty Mentor: Anderson, Deonna Verniece
Project Title: The Effect of Hand-Hygiene Education on School-Aged Children

#142 Savanna Atkinson
Major: Nursing
Faculty Mentor: Harper, Amanda Blayne
Project Title: Effects of Stress Relief Education on Burnout Levels in Daycare Teachers

#143 Jillian Baker, Skyler Mease, Megan Brinkley
Major: Nursing
Faculty Mentor: Swift, Shelia
Project Title: Preventative Oral Care Education for Children at Thrive Lonsdale Community

#144 Bridget Barrett, Camryn Ford
Major: Nursing
Faculty Mentor: Elliott, Lizanne Munson
Project Title: The Effect of Art on Nutrition Education

#145 Madison Bixler
Major: Nursing
Faculty Mentor: Spurgeon, Marcia McAllister
Project Title: Effectiveness of Teaching 911 Safety Education to Young Children in SHADES After School Program

#146 Gabriela Black
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: Effectiveness of Teaching 911 Safety Education to Young Children in SHADES After School Program

#147 Mary Bosson, Sarah Hodges, Madison Cavalli, Kaitlyn Carmichael
Major: Nursing
Faculty Mentor: Abdoli, Samereh
Project Title: Effect of infant breastfeeding versus formula feeding for a minimum of one month on cognitive outcomes in early childhood
#148 Katharine Bossong  
Major: Nursing  
Faculty Mentor: Hebert, Susan Lynn  
Project Title: Providing Information in Spanish to the Patients of InterFaith Health Clinic and its Effect on Patient Participation

#149 Lauren Bradley, Mikayla Murphy  
Major: Nursing  
Faculty Mentor: Harper, Amanda Blayne  
Project Title: Measuring how Student Involvement in Social Media Affects Organizational Engagement and Charitable Giving

#150 Anne Brames, Katherine Turner  
Major: Nursing  
Faculty Mentor: Mixon, Melanie C  
Project Title: Effect of Medical Play on Understanding of Hospital Environment by Adolescents

#151 Allie Brown, Lauren Caradine, Emily Dermis, Barklee Loflin  
Major: Nursing  
Faculty Mentor: Green-Laughlin, DeLyndia  
Project Title: Mechanically Ventilated Pediatric Patients Receive Little to No Physiological Benefit from Normal Saline Instillation Prior to Endotracheal Suctioning: A Literature Review

#152 Meredith Burgin  
Major: Nursing  
Faculty Mentor: Helton, Sally M  
Project Title: The Effects of Basic Instructional Videos on Adults with Intellectual Disabilities

#153 Emilee Burton, Corinne Schapiro  
Major: Nursing  
Faculty Mentor: Acred-Natelson, Laurie Lu  
Project Title: COVID-19 Health Promotion for People Experiencing Homelessness

#154 Allie Callaway  
Major: Nursing  
Faculty Mentor: Spurgeon, Marcia McAllister  
Project Title: Hand Washing in the Children in the Boys and Girls Club to Decrease Infection

#155 Grace Cambron  
Major: Nursing  
Faculty Mentor: Mixon, Melanie C  
Project Title: Vine School Health Clinic Open House

#156 Krista Cameron  
Major: Nursing  
Faculty Mentor: Thompson, Kathleen  
Project Title: Strategies for the College-aged Population to Reduce Risk Factors of Alzheimer’s Disease

#157 Mackenzie Cavnar, Lauren Irvine, Margaret Lavoie  
Major: Nursing  
Faculty Mentor: Smith, Jennifer Lynn  
Project Title: The Effects of Physical Activity on Depression Rates in Postpartum Women

#158 Linus Cho  
Major: Nursing  
Faculty Mentor: Thompson, Kathleen  
Project Title: Evaluating the Effectiveness of patient mental health resources usage shared by Sexual Assault Nurse Examiner

#159 Julia Clark, Josie Parsons, Juliana Foreman, Alex Gerkin  
Major: Nursing  
Faculty Mentor: Sagherian, Knar  
Project Title: The effect of restorative breaks on levels of sleepiness and fatigue in healthcare workers

#160 Paige Clark  
Major: Nursing  
Faculty Mentor: Thompson, Kathleen  
Project Title: Parental Knowledge of Aromatherapy

#161 Gracie Clayton  
Major: Nursing  
Faculty Mentor: Anderson, Deonna Verniece  
Project Title: Mobile Hand Hygiene for School Aged Children

#162 Hailey Cohen  
Major: Nursing  
Faculty Mentor: Acred-Natelson, Laurie Lu  
Project Title: EFFECTS OF EDUCATING ON AFFORDABLE REHABILITATION IN THE HOMELESS POPULATION

#163 Johnny Cole III, Megan Wander, Courtney Ballou, Jennifer Reagan  
Major: Nursing  
Faculty Mentor: Ozorio Dutra, Samia Valeria  
Project Title: Effectiveness of Yoga Programs Versus Standard Treatments on Pain Intensity and Pain Related Disability in Adults with Chronic Low Back Pain: A Literature Review
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<td>The effects of poor diet quality on depression in adolescents: A literature review</td>
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<th>Natalie Dowdy, Kristin Hoover, Margot Hewitt, Brittney Gibson</th>
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<th>Madison Ford, Pallavi Rao, Erin Caldwell, Claudia Dobronski, Abby Strakhov</th>
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<th>Ashley Foster, Jaime Hippe, Annie Nelson, Amy Dieu</th>
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<td>The Effect of Nurse-led Education on Breast Cancer Screening to Women at an Earlier Age</td>
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<td>#180 Tanner Franklin</td>
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<td>#181 Kelsey Fields</td>
<td>#187 Kasey Harvey, Sarah Klein, Emily Kizer, Kyla Suits</td>
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<td>#182 Emily Gaines</td>
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<td>#184 Zaria Hall</td>
<td>#190 Claire HayesPhoebe Grossman, Nicole Caponigro, Hana Burnett</td>
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<td>Project Title: Nonpharmacological Interventions Effect on Memory in Dementia Patients</td>
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<th>#205</th>
<th>Elise Kendrick, Taylor Turner, Ansley Johnson, Walaa Bahour, London Hendon, Samantha Marlow, Courtney Cremerius</th>
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<td>Major:</td>
<td>Nursing</td>
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<td>Adams, Cindi</td>
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<tr>
<td>Project Title:</td>
<td>Prior Knowledge and Education of First Aid Training in Young Girls</td>
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<th>#206</th>
<th>Kimberly Knorr, Maria Glower, Payton Lanier</th>
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<td>Borges, Sara</td>
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<td>Project Title:</td>
<td>The Effect of Online Learning on Student Retention Rates</td>
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<th>Logan Krussow</th>
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<td>Project Title:</td>
<td>Mental Health in Children of Incarcerated Parents: Impact of Providing Mental Health Information to those within the Amachi Program</td>
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<td>Project Title:</td>
<td>Impact of Telehealth on Mindfulness and Meditation for Cancer Patients</td>
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<td>Wyatt, Tami Hodges</td>
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<td>Project Title:</td>
<td>Asthma Friendly School Initiative Needs in Public Schools Across the State of Tennessee</td>
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<td>Project Title:</td>
<td>The Effects of Nutritional Education on Personal Diet Choices</td>
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<th>Mika Long</th>
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<td>Project Title:</td>
<td>Correlational Study Between Eating Disorders and Postpartum Depression Among Women Six Weeks Postpartum</td>
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<td>Project Title:</td>
<td>Impact of Teaching Study Techniques on Secondary Education Performance</td>
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<th>#213</th>
<th>Elizabeth Martin, Elissa Adams, Holly Mccomas, Dailey Davis</th>
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<td>Project Title:</td>
<td>The Effects of Various Interventions on the Cardiovascular Health of Obese Children</td>
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#214 Jordan Martin, Valerie Scura, Chelsea Artigliere, Lindsey Sexton
Major: Nursing
Faculty Mentor: Sagherian, Knar
Project Title: The Effects of Post-Discharge Home-Based Therapy on Speed Processing in Pediatric Patients with Acquired Brain Injury

#215 Jessica Mcchesney, Russell Cunningham, Kaitlyn Weeden, Lily Hopping
Major: Nursing
Faculty Mentor: Sagherian, Knar
Project Title: The Effect of Animal Assisted Therapy on Depression among Dementia Patients living in Nursing Homes

#216 Sarah Mccloud, Logan Hinch, Ellen Williams, Emma Seigmund
Major: Nursing
Faculty Mentor: Abdoli, Samereh
Project Title: Practical Resources for Effective Postpartum Parenting (PREPP) Compared to Other Interventions in Preventing Postpartum Depression (PPD)

#217 Abigail McCollough, Emily Adams
Major: Nursing
Faculty Mentor: Lakin, Brooke Nicole
Project Title: The Impact of Virtual Training on Virtual Volunteer Retention Among Volunteers at Hope Resource Center

#218 Margaret Mcconnell, Maggie Piazza, Madeline Grimes, Marissa Newman
Major: Nursing
Faculty Mentor: Abdoli, Samereh
Project Title: The Impact of Adding Music Therapy to Treatment Plans on Pain Management and Emotional Health in Pediatric Oncology Patients

#219 Kaitlyn Mckinney
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: The Effects of Educational Intervention on Nutritional Status and Healthy Eating Choices in Children

#220 Natalie Meade
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: How Coping Skills Developed in Nursing School Effect Burnout in the Transition to Practice

#221 Anna Mechley, Brianna Desjardins
Major: Nursing
Faculty Mentor: Bullard, Tammy Borden
Project Title: The Effects of Implementing an Organizational Planner on Academic Success of Low-Income High School Students

#222 Charly Medley
Major: Nursing
Faculty Mentor: Bullard, Tammy Borden
Project Title: The Effects of Positive Reinforcement on Behavior in School Aged Children

#223 Madelyn Meitin
Major: Nursing
Faculty Mentor: Kojima, Freddie Naoto
Project Title: The Relationship of Educational Resources on Wound Care and Bacterial Infections on Overall Health

#224 Heidi Middeke, Ali Kemar, Jaclyn Clark, Laurel Barrentine
Major: Nursing
Faculty Mentor: Harper, Amanda Blayne
Project Title: The Effects of Animal-Assisted Therapy on Anxiety Levels Among Children Living with Cancer During Chemotherapy

#225 Giovanna Miller, Spencer Hagan
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: Educational Wound Prevention and Treatment Class for People Experiencing Homelessness at Volunteer Ministry Center in Knoxville, Tennessee.

#226 Kayla Miller
Major: Nursing
Faculty Mentor: Kiernan, Jason Micheal
Project Title: Perceived Effects of Music on Mood and Focus for School-Aged Children in an Underserved population

#227 Margaret Miller, Madison Peret, Haley Benson, Katie Pendergast
Major: Nursing
Faculty Mentor: Ozorio Dutra, Samia Valeria
Project Title: Cognitive Improvement and Increased Quality of Life Among Dementia Patients When Utilizing Animal-Assisted Therapy

#228 Geoffrey Mills, Ellis Whinery
Major: Nursing
Faculty Mentor: Ozorio Dutra, Samia Valeria
Project Title: Effect of Progressive Muscle Relaxation on Reducing Anxiety in Cancer Patients Currently Undergoing Treatment
#229 Camryn Morais  
Major: Nursing  
Faculty Mentor: Brown, Kimberly McCaskill  
Project Title: Using Intermittent Dance Breaks to Improve Attention and Focus in Children Attending Shades of Development Afterschool Program

#230 Christopher Moriconi  
Major: Nursing  
Faculty Mentor: Acred-Natelson, Laurie Lu  
Project Title: The Effects of Digital Education: Patient Perception and Willingness to Wear a Mask and Perform Proper Hand Hygiene to Combat COVID-19 in an Integrative Primary Care Setting

#231 Sarah Morin, Taylor Mann, Ana Bridgeman, Lillian Sackleh  
Major: Nursing  
Faculty Mentor: Green-Laughlin, DeLyndia  
Project Title: Prenatal Exposure to Acetaminophen Linked to Development of ADHD in Offspring

#232 Sarah Moses, Rachel Lamphere  
Major: Nursing  
Faculty Mentor: Brown, Christina  
Project Title: Assessing the Effects of an Online Facebook Support Group for Women of Childbearing Age

#233 Sydney Mourges  
Major: Nursing  
Faculty Mentor: Burns, Libby  
Project Title: The Effects of Visual Hydration Tracking on Overall Oral Fluid Intake in Older Adults with Cognitive Impairments

#234 Maeve MulliganKayla Miller, Paige Clark, Emily Neillmark, Abigail Williams, Katherine Proctor  
Major: Nursing  
Faculty Mentor: Kiernan, Jason Micheal  
Project Title: Effects of Hand-Hygiene Education In School-Age Children

#235 Morgan Murray  
Major: Nursing  
Faculty Mentor: Elliott, Lizanne Munson  
Project Title: Effects of Social Media Outreach on Immunization Health Literacy

#236 Faith Mysliwiec  
Major: Nursing  
Faculty Mentor: Thompson, Kathleen  
Project Title: Perception of the Precious Prints Project® from Nurses who have Experienced the Death of Neonatal and Pediatric Patients

#237 Mikayla Nalley, Emily Malott, Vanessa Betancourt, Abigail Cavinee  
Major: Nursing  
Faculty Mentor: Smith, Jennifer Lynn  
Project Title: The Effects of Music Therapy on Adverse Drug Reactions Experienced During Chemotherapy in Adult Cancer Patients

#238 Ashlyn Nokes, Alexis Campbell, Brooke Jackson, Annika O'Neill  
Major: Nursing  
Faculty Mentor: Smith, Jennifer Lynn  
Project Title: Does the incorporation of acupuncture with Western Medicine improve the outcome for patients with chronic pain?

#239 Abigail Olson  
Major: Nursing  
Faculty Mentor: Anderson, Deonna Verniece  
Project Title: The Effect of a Mindfulness-Based Activity on Self-Reported within the Pediatric Population

#240 Paige Osterfeld  
Major: Nursing  
Faculty Mentor: Miller, Lynne Hill  
Project Title: The Effect of Cultural Competence Teaching on Nurses’ Confidence in Providing Bereavement Care to Culturally Diverse Families in East Tennessee

#241 Jessica Owen  
Major: Nursing  
Faculty Mentor: Hebert, Susan Lynn  
Project Title: Impact of Take Home Meal Kits on Self-care Habits on InterFaith’s Patient Population

#242 Mackenzie Owens, Olivia Hoyt, Meghan Wolfanger, Keegan Walker, Cierra Widener, Kelly Sasseen  
Major: Nursing  
Faculty Mentor: Tourville, Jennifer Gale  
Project Title: Education Impact on HCV and HIV Testing Rates Among Injection Drug Users

#243 Kailyn Phann  
Major: Nursing  
Faculty Mentor: Burns, Libby  
Project Title: The Effects of Mentoring Programs on the Outcomes of School Aged Children

#244 Gemma Pierce  
Major: Nursing  
Faculty Mentor: Griffith, Gail Ann  
Project Title: The Effects of Technology on Senior Citizens in Knoxville During COVID-19
#245 Emily Pooler  
Major: Nursing  
Faculty Mentor: Spurgeon, Marcia McAllister  
Project Title: Effectiveness of "Healthy Practices" Education on Elementary-Aged Children

#246 Jessica Rack  
Major: Nursing  
Faculty Mentor: Swift, Shelia Henson  
Project Title: The Effects of an Interactive, Educational Presentation on Headache Prevention Awareness in School-Aged Children

#248 Linnea Ramirez, Adam Lewis, Grant Holman, Alexander Hayes  
Major: Nursing  
Faculty Mentor: Ozorio Dutra, Samia Valeria  
Project Title: The Effect of Exercise on Older Adults with Dementia

#249 Ashley Riedy, Alexa Rebmann, Kristen Herold, Rebecca Gunter  
Major: Nursing  
Faculty Mentor: Rhoten, Travis Dwayne  
Project Title: The Effects of Social Media Use on Depression and Anxiety in High School Females

#250 Tavyn Santee, Sydney Gregg, Sarah Regener, Haley Persch  
Major: Nursing  
Faculty Mentor: Kiernan, Jason Micheal  
Project Title: EBP Project - In women with gestational diabetes, how does lactating affect the risk of developing type 2 diabetes postpartum?

#251 Savanna Scarbrough  
Major: Nursing  
Faculty Mentor: Thompson, Kathleen  
Project Title: Utilizing Educational Brochures on Diabetes Mellitus and Nutrition in the Homeless Population at Knoxville Area Rescue Ministries

#252 Amanda Shamp, Katelyn Mcbride, Chelsea Consollini, Yoo Jin Cho  
Major: Nursing  
Faculty Mentor: Sagherian, Knar  
Project Title: A Literature Review of the Positive Effects of Animal Assisted Therapy on Agitation of Older Adults with Dementia

#253 Dorothee Shaw-Wakeman, Lucia Zhang, Grace Massengill, Allyssa Little  
Major: Nursing  
Faculty Mentor: Bailey, Carrie  
Project Title: The effects of rotating shift work on menstrual cycle irregularities in female shift workers

#254 Taylor Sieverson  
Major: Nursing  
Faculty Mentor: Bishop, Edelyn Yvette  
Project Title: Effects of Education and Distribution of Naloxone on Overdose Rates in Knox County

#255 Jillian Simpson, Caitlyn Hintz, Brooke Paris, Catherine Heilman  
Major: Nursing  
Faculty Mentor: Ozorio Dutra, Samia Valeria  
Project Title: Literature Review of the Correlation Between Pregnant Women Consuming Alcohol and the Neonate Developing Symptoms of ADHD

#256 Emily Slater  
Major: Nursing  
Faculty Mentor: Griffith, Gail Ann  
Project Title: The Effects of Education About Infection Control Related to the COVID-19 Virus on the Knowledge Level of Middle Schoolers

#257 Marissa Sliwa  
Major: Nursing  
Faculty Mentor: Mixon, Melanie C  
Project Title: Implementing Education on Hand Hygiene in the Pediatric Population

#258 Peyton Smith, Claire Walker, Dayton Wagner, Major: Nursing  
Faculty Mentor: Meloy, Vikki  
Project Title: Male Role Model Influence on Growing Male Adolescents

#259 Samantha Smith, Radha Patel, Christopher Sheets, Tina Le  
Major: Nursing  
Faculty Mentor: Abdoli, Samereh  
Project Title: Prevention of Influenza in Children with use of hand hygiene

#260 Sydney Smith  
Major: Nursing  
Faculty Mentor: Anderson, Deonna Verniece  
Project Title: Effects of Nutritional Education on Food Choices

#261 Abbey Smithers  
Major: Nursing  
Faculty Mentor: Hebert, Susan Lynn  
Project Title: Would the Creation of an Employee Handbook Lead to Clear Expectations from Employees at the Ronald McDonald House of Knoxville?
#262 Juli Stanford
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: Birth Plans as Birth Education in the United States

#263 Ali Sullivan
Major: Nursing
Faculty Mentor: Bishop, Edelyn Yvette
Project Title: Do Young Adults with Close Family Experiencing Alzheimer’s Have Higher Depression Rates?

#264 Margaret Tasket
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: Differences Between College Males and Females’ Coping Mechanisms in Relation to the COVID Pandemic

#265 Vanessa Trefethen, Moriah Sims
Major: Nursing
Faculty Mentor: Elliott, Lizanne Munson
Project Title: Cherokee Health Systems’ Clinton Location Patient Population Percentage Who Registered for and Received the COVID-19 Vaccination Compared to the Cleveland Clinic’s Recommended Percentage for Herd Immunity

#266 Rachel Tudor
Major: Nursing
Faculty Mentor: Bishop, Edelyn Yvette
Project Title: Evaluation of Activity Involvement and Depression in the Windsor Gardens Geriatric Population

#267 Abigail Varner
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: Reward System Affecting Student Engagement

#268 Samantha Vawter, Mary-Katherine Kidney, Stacie Gaddis, Rebekah Brandon
Major: Nursing
Faculty Mentor: Abdoli, Samereh
Project Title: The effect of daily exercise on college student’s stress, anxiety, and depression levels

#269 Emma Vysoky
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: Pregnant Women with Asthma: Factors that Influence Their Decision to Continue or Discontinue Taking Their Medications

#270 Charlotte Wade
Major: Nursing
Faculty Mentor: Helton, Sally M
Project Title: Restrictive legislation for those serving developmental and physical disabled

#271 Lauren Warwick, Eva Huff
Major: Nursing
Faculty Mentor: Miller, Lynne Hill
Project Title: Effect of Automated Dispensing Systems on Partnering Facility Reporting Compliance

#272 Lindsay Webb, Nicole Wigent, Michael Darby, Shelby Moore
Major: Nursing
Faculty Mentor: Smith, Jennifer Lynn
Project Title: A Review of the Literature: The Effect of Diet Therapy on Symptoms of ADHD in School-aged Children

#273 Anna Weeks
Major: Nursing
Faculty Mentor: Swift, Shelia Henson
Project Title: Educating an Adolescent Population on the Effects of Social Media on Mental Health

#274 Maiya Welch, Lillie Cole, Carson Clinard, Megan Mcloughlin, Major: Nursing
Faculty Mentor: Kiernan, Jason Micheal
Project Title: The Effects of Music Therapy on Preterm Infants

#275 Morgan Wettengel, Abigail Baker, Megan Lime, Emma Clifton
Major: Nursing
Faculty Mentor: Smith, Jennifer
Project Title: Exercise and Postpartum Depression

#276 Addison White
Major: Nursing
Faculty Mentor: Swift , Sheila
Project Title: Importance of Nutritional Education in the Thrive Lonsdale Community

#277 Taylor Wills
Major: Nursing
Faculty Mentor: Accred-Natelson, Laurie Lu
Project Title: A Comparison of Pediatric Intravenous Complications between Non-Pediatric and Pediatric Hospitals

#278 Abigail Winterstein
Major: Nursing
Faculty Mentor: Brown, Mary Lynn
Project Title: Perceptions of Family-Initiated Rapid Response Teams
EURēCA 2021

The College of Social Work

#279 Margaret Zerfoss, Emily Boone
Major: Nursing
Faculty Mentor: Thompson, Kathleen
Project Title: The Use of Visual Aids in a Virtual Environment for Pillowcase Project Participants

#280 Jaime Zito, Olatayo Akindele, Madeline Tzianabos
Major: Nursing
Faculty Mentor: Sagherian, Knar
Project Title: Using Mindfulness-Based Stress Reduction in Interventions to Reduce Levels of Stress in Nursing Professionals: A Literature Review

#281 Breanna Berry
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: A comparison of survey satisfaction of families with family members who received hospice services in nursing facilities, with the survey satisfaction of families with family members who received hospice service at home.

#282 Elsie Crisp
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: The effect of distance learning developmentally with Head Start aged children

#283 Jessica Douglas
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: The Correlation Between Declining Mental Health and Premature Deaths in Relationship to the COVID-19 Pandemic

#284 Amelia Goodnight
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: Relationship between the Holistic Student Assessment and documented behavior reports

#285 Dorothy Martin
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: Effects of a Pandemic on Social Assistance Enrollment in Appalachian Tennessee Counties

#286 Diann Sarabia
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: Relationship between the Average Substantiated Cases of Child Abuse Before and After Quarantine

#287 Beth Sprowls
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: Periodicity in Mass Shootings

#288 Kenslee Thomas
Major: Social Work
Faculty Mentor: Nugent, Bill
Project Title: How were elementary-aged students affected by online learning?

#289 Alec Apostoaiei
Major: Economics
Faculty Mentor: Sims, Charles Boyd
Project Title: Exploring the Viability of Investment in Small Modular Nuclear Reactors (SMRs): Mitigating Climate Change through Advancements in Energy Generation

#290 Ashlyn Bowman
Major: Supply Chain Management
Faculty Mentor: Saunders, Lance Walter
Project Title: Committing to Carbon Neutral

#291 Taylor Boyer
Major: Marketing
Faculty Mentor: Noble, Stephanie Michelle
Project Title: KEY COMPONENTS TO AN IMPACTFUL PEER MENTORSHIP PROGRAM:

The Implementation of a Structured Mentorship Program within the Haslam College of Business

#292 Sophia Cowell
Major: Human Resource Management
Faculty Mentor: Munyon, Tim
Project Title: Effectiveness of Rotational Programs on Recent College Graduates

#293 Alexander Esposito
Major: Finance
Faculty Mentor: Puckett, Andy
Project Title: How the Covid-19 Pandemic Affected Municipal Bond Issuance in Large Metropolitan Statistical Areas
#294 Michaela Faunce
Major: Accounting
Faculty Mentor: Bruce, Don
Project Title: Major League Baseball’s Biggest Failure - The Competitive Balance Tax

#295 Shanice Garner
Major: Business Analytics
Faculty Mentor: Eldemire-Poindexter, Ashleigh
Project Title: Financial Literacy and First-generation, Low-income Undergraduates

#296 Alyssa Grissom
Major: Marketing
Faculty Mentor: Xiao, Yazhen
Project Title: Smart Home Coding

#297 Andrew Howard
Major: Supply Chain Management
Faculty Mentor: Grojean, Michael
Project Title: Do inclusivity and leadership’s effects on psychological safety impact one’s organizational commitment?

#298 Madison Hutts
Major: Supply Chain Management
Faculty Mentor: Saunders, Lance Walter
Project Title: E2E pharmaceutical distribution and reverse logistics for unused and/or expired drugs

#299 Joelle Jarjoura
Major: Business Analytics
Faculty Mentor: Wanamaker, Marianne H
Project Title: Immigrant Entrepreneurship and Job Creation in the U.S.: A Historical Analysis and Future Projection Model

#300 Heather McDonnell
Major: Marketing
Faculty Mentor: Bharadwaj, Neeraj
Project Title: The Story of Taking a Stand: How Brands have Impacted their Narratives when Taking a Stance Against Racial Injustice

#301 Maikel Mikael
Major: Supply Chain Management
Faculty Mentor: Willems, Sean Peter
Project Title: Case Study on Data Governance

#302 Payton Myers
Major: Business Analytics
Faculty Mentor: Tate, Wendy
Project Title: Supply Chain Decarbonization and the Reduction in Transportation Emissions

#303 Robert Oberholtzer
Major: Supply Chain Management
Faculty Mentor: Willems, Sean Peter
Project Title: Case Study on Program Purchasing Decisions for Automotive Manufacturers

#304 Kathryn O’Donnell
Major: Business Analytics
Faculty Mentor: Micheletto, Melinda Jo
Project Title: Profiling the Organic Consumer and The Change in Media Behavior for Organic Consumers Since 2012

#305 Ramsey Parker
Major: Marketing
Faculty Mentor: Noble, Stephanie Michelle
Project Title: Influencer Marketing Effects on Consumer Purchase Intention

#306 Matthew Seward
Major: Business Analytics
Faculty Mentor: Harris, Matt
Project Title: Flint, Michigan: What Went Wrong?

#307 Isaac Sheets
Major: Business Analytics
Faculty Mentor: Liu, Yuanyang
Project Title: Recession-Proofing Data Scientists

#308 Cassady Smith
Major: Marketing
Faculty Mentor: Hewett, Kelly
Project Title: How do Investments in Corporate Social Responsibility Activities Affect a Luxury Brand’s Market Value?

#309 Isabel Soldner
Major: Marketing
Faculty Mentor: Abell, Annika Kristin
Project Title: Artists on the Rise: An Exploration of the Role that Brand Collaboration Prestige Plays in the Development of Identification and Artist Attractiveness

#310 Aaron Stapleton
Major: Mathematics
Faculty Mentor: Liu, Chuanren
Project Title: Multi stock regression modeling for algorithmic trading

#311 Spencer Strei
Major: Supply Chain Management
Faculty Mentor: Tate, Wendy
Project Title: Value Driven Supply Chains – Are the values of a focal firm held throughout the entire supply network?

#312 Danielle Taylor
Major: Accounting
Faculty Mentor: Luna, LeAnn
Project Title: University Student Perceptions on Tax Complexity and Tax Compliance

#313 Jessica Thomas
Major: Supply Chain Management
Faculty Mentor: Tate, Wendy
Project Title: Supplier Diversity Programs Best Practices

#314 Steven Thompson
Major: Marketing
Faculty Mentor: Tate, Wendy
Project Title: Are Sustainable Companies Successful Companies?
#315 Jake Tolleson  
**Major:** Business Analytics  
**Faculty Mentor:** Letizia, Paolo  
**Project Title:** The Effect of Product Customization on Returns

#316 Mary Yagodich  
**Major:** Finance  
**Faculty Mentor:** Fauver, Larry Anthony  
**Project Title:** Getting Women on Board: Examining Boardroom Gender Diversity Reforms and Their Outcomes

## The Herbert College of Agriculture

#317 Elizabeth Baker  
**Major:** Biochem/Cellular/Molecular Bio  
**Faculty Mentor:** Zhuang, Jie  
**Project Title:** A Vertical Wetland Model For the City of Knoxville, Tennessee

#318 Rachel Baxter, Kyra Hokkanen  
**Major:** Animal Science  
**Faculty Mentor:** Trout Fryxell, Rebecca Tiffany  
**Project Title:** The occurrence and abundance of different tick species varies on companion animals across Tennessee (U.S.A.)

#319 Caleb Bratcher, Nathan Dowdy  
**Major:** Forestry  
**Faculty Mentor:** Yang, Sheng-I  
**Project Title:** Evaluation of Growth and Yield for White oak

#320 Dustin Del Moro  
**Major:** Plant Sciences  
**Faculty Mentor:** Walters, Kellie Jean  
**Project Title:** The effect of light intensity during hydroponic seedling production on yield and morphology of green and purple lettuce.

#321 Carissa Elonen, Sawsan Ammar  
**Major:** Microbiology  
**Faculty Mentor:** Gerhold Jr, Richard William  
**Project Title:** The effect of Oxyrase® in Dwyer's Media on Histamonas meleagridis growth

#322 Bryanna Fayne, Windy Soto-Gonzalez, Anastasia Feletka, Olivia Escher, Rebecca Rahn  
**Major:** Animal Science  
**Faculty Mentor:** Smith, Joseph Samuel  
**Project Title:** A Retrospective Investigation of the Clinical Safety of Ponazuril in Hospitalized Sheep, Goats, and other Small Ruminant Species

#323 Aliana Funderburk  
**Major:** Forestry  
**Faculty Mentor:** Yang, Sheng-I  
**Project Title:** Evaluation of Height-Diameter Relationships for White Oak in the Southeastern US

#324 Matthew Harley  
**Major:** Biology  
**Faculty Mentor:** Pantalone, Vince  
**Project Title:** The Effect of the Danbaekkong Gene on Soybean Quality Traits

#325 Emma Hessock  
**Major:** Animal Science  
**Faculty Mentor:** Moorey, Sarah E  
**Project Title:** Gene Expression and Function of In-vivo Derived Bovine Cumulus-Oocyte Complexes

#326 Meredith Hinson, Samantha Roberts, Emma Hessock, Casey Read  
**Major:** Animal Science  
**Faculty Mentor:** Moorey, Sarah E  
**Project Title:** Evaluating factors that influence the onset of puberty in beef heifers

#327 Jessica Kern  
**Major:** Animal Science  
**Faculty Mentor:** Miller, Deb  
**Project Title:** Infectious Pathogen Testing of Bobcat and Ocelot Populations in South Texas

#328 Alana Messier  
**Major:** Medical Laboratory Science  
**Faculty Mentor:** Zhuang, Jie  
**Project Title:** A mutualism redefined: the role of ant-produced chemicals on the plant pathogen Botrytis cinerea

#329 Alivia Nytko  
**Major:** Ecology/Evolutionary Biology  
**Faculty Mentor:** Zhuang, Jie  
**Project Title:** Perceptions of potential biosolid barrier solutions for agricultural use in Tennessee

#330 Matthew Reeder  
**Major:** Food Science  
**Faculty Mentor:** Dia, Vermont  
**Project Title:** Characterization of Proteins Isolated from Hempseed Hearts

#331 Casey Richards  
**Major:** Ecology/Evolutionary Biology  
**Faculty Mentor:** Hadziabd-Guerry, Denita  
**Project Title:** Conservation and Diversity Study of Endemic Tree, Mountain Stewartia (Stewartia ovata)
#333 Casey Ricketts  
Major: Food Science  
Faculty Mentor: Munafo, John Peter  
Project Title: Determining concentration of reference odorants for quantitative olfactory profile analysis of Chardonnay marc

#334 Samantha Roberts, Meredith Hinson, Emma Hessock, Casey Read  
Major: Animal Science  
Faculty Mentor: Moorey, Sarah E  
Project Title: Phenotypes and Plasma Metabolome Profiles to Predict Average Daily Gain in Heifers

#335 Raymond Senu  
Major: Biochem/Cellular/Molecular Bio  
Faculty Mentor: Staton, Meg  
Project Title: Exploration of Conserved Alternative Splicing Patterns in Different Prunus Species

#336 Sarah Singleton  
Major: Animal Science  
Faculty Mentor: Moorey, Sarah E  
Project Title: Novel Postpartum Reproductive Traits in Beef Cattle

#337 Sarah Warner  
Major: Food Science  
Faculty Mentor: D'Souza, Doris Helen  
Project Title: Reduction of Cronobacter sakazakii populations in buffer and reconstituted milk by ultraviolet light systems

#338 Morgan White  
Major: Environmental & Soil Sciences  
Faculty Mentor: DeBruyn, Jennifer Mary  
Project Title: Comparison of Remote Weather Station Temperature Data to Onsite Temperature Measurements during Human Decomposition

#339 Megan Wilson  
Major: Biological Science  
Faculty Mentor: Gray, Matt  
Project Title: Determining the Efficacy of Bacteria-Produced Antimicrobial Peptides in Inhibiting the Growth of Batrachochytrium salmonandrivorans in vitro

#340 Liberty Wood, Carissa Elonen, Eryn Watson  
Major: Biochem/Cellular/Molecular Bio  
Faculty Mentor: Gerhold Jr, Richard William  
Project Title: Prevalence and Detection of Parelaphostrongylus tenuis in East Tennessee

#341 Brianna Baxter, Abad Monroy, Lydia Berger, Zachary Brown  
Major: Biosystems Engineering  
Faculty Mentor: Tyner, John S  
Project Title: Food Waste Energy Extractor

#342 Michael Bethell, Melanie Moczadlo  
Major: Materials Science & Engineer  
Faculty Mentor: Advincula, Rigoberto Castillo  
Project Title: Optimization of 3D Printed Thermoplastic Polyurethane Elastomers

#343 Kassidy Boone, Naydia Peoples, Jenny Patel  
Major: Mechanical Engineering  
Faculty Mentor: Barker, Elizabeth Diana  
Project Title: Designing an Injectable Hydrogel to Treat Pediatric Medulloblastoma Tumor

#344 Benjamin Cruz, Colby Gillman  
Major: Biosystems Engineering  
Faculty Mentor: Chen, Jiajia  
Project Title: Solid-State Microwave Control and Data Collection System

#345 Hannah Davis  
Major: Chemical Engineering  
Faculty Mentor: Goenaga, Gabriel  
Project Title: Electrochemical characterization and EPR studies of TEMPO-based electrolytes for redox flow batteries

#346 Kelli Determan, Kenda Anderson  
Major: Electrical Engineering  
Faculty Mentor: McFarlane, Nicole  
Project Title: PCB Design for a Chaotic Encryption Cipher

#347 Jay Dharsandia, Elijah Rosenberg, Kaila Cleary, Carson Fessler, Cameron Davis  
Major: Nuclear Engineering  
Faculty Mentor: Grossbeck, Martin L  
Project Title: Prevention of Water Evaporation from a Spent Fuel Pool

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**The Tickle College of Engineering**

#341 Brianna Baxter, Abad Monroy, Lydia Berger, Zachary Brown  
Major: Biosystems Engineering  
Faculty Mentor: Tyner, John S  
Project Title: Food Waste Energy Extractor
EURēCA 2021

#348 Lauren Eccles
Major: Chemical Engineering
Faculty Mentor: Sickafus, Kurt Edward
Project Title: Investigating Solid-State Synthesis of the Feldspar Anorthite

#349 Henry Eigen
Major: Computer Science
Faculty Mentor: Sadovnik, Amir
Project Title: Adversarial Robustness by Learning Sparse Networks

#350 Kate Eikel
Major: Materials Science & Engineer
Faculty Mentor: Hu, Bin
Project Title: Investigating Methods for Obtaining Large 2-Dimensional Perovskite Single Crystals

#351 Gehrig Elkins
Major: Biomedical Engineering
Faculty Mentor: Reinbolt, Jeff
Project Title: Motion Tracking and Feedback Learning System

#352 Cole Franz, Noah Sloan, Kate Eikel, Kah Choong
Major: Materials Science & Engineer
Faculty Mentor: Sickafus, Kurt Edward
Project Title: High Temperature Vacuum Furnace for Replication of Chondrite Formation Conditions in Space

#353 Alexander Greenhalgh
Major: Materials Science & Engineer
Faculty Mentor: Keffer, David J
Project Title: Energy and Entropy of Defect Formation in Crystalline Solids

#354 Zakaraya Hamdan
Major: Electrical Engineering
Faculty Mentor: Crouch, Dustin Lee
Project Title: Bio-Integratable Sensor System for Endoprosthesis Design Validation

#355 Lily Hawk
Major: Chemical Engineering
Faculty Mentor: Goenaga, Gabriel
Project Title: Synthesis and characterization of oxygen reduction catalysts for alkaline fuel cells using kudzu leaves as the carbon support

#356 Ethan Haworth
Major: Computer Science
Faculty Mentor: Williams, Alex
Project Title: Classifying Reasonability in Retellings of Personal Events Shared on Social Media with /r/AmITheAsshole

#357 Ashley Haylett, Emilee Crocker, Logan Baldwin, Brandon Brimer
Major: Biosystems Engineering
Faculty Mentor: Abdoulmoumine, Nour
Project Title: Deer Carcass Mobile Incinerator

#358 Carson Helton, Tyler Corum
Major: Biomedical Engineering
Faculty Mentor: Duty, Chad Edward
Project Title: Fiber Length Analysis in Recycled Carbon Fiber Acrylonitrile-Butadiene-Styrene for Large Scale Additive Manufacturing

#359 Megan Hines
Major: Biomedical Engineering
Faculty Mentor: Crouch, Dustin Lee
Project Title: Preparation for Conducting a Study to Quantify the Moment About the Glenohumeral Joint and Evaluate the Safety of a Cable-Driven Shoulder Exoskeleton

#360 Gillian Holcomb
Major: Materials Science & Engineer
Faculty Mentor: Advincula, Rigoberto Castillo
Project Title: Optimization of Print Parameters and Investigation of Post Processing Techniques for 3D Printed PETG Parts

#361 Victoria Howard
Major: Mathematics
Faculty Mentor: Abel, Steven Matthew
Project Title: Rare Event Sampling in Bistable Reaction Networks

#362 Bryson Howell
Major: Computer Science
Faculty Mentor: Parker, Lynne
Project Title: Identification of Emergent Collaborative Behaviors in Multi-Agent Systems

#363 Nicholas Legaux
Major: Chemistry
Faculty Mentor: Advincula, Rigoberto Castillo
Project Title: Stereolithography 3D Printing of Copper/Polymer Nanocomposites

#364 Samantha Maness, Kennedy Waring, Jace Pittman, Alexander Richter
Major: Materials Science & Engineer
Faculty Mentor: Keffer, David J
Project Title: Characterization of Lignin-Based Reactive Membranes Suitable for Sustainable Energy Applications
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<tr>
<th>#365 Samantha Maness, Madeline Wimmer, Bowen Wagner, Robert Pack, Nadim Hmeidat</th>
<th>#370 Sarah Norris, Nathaniel Blaack, Daniel Mountain, Alexis Walsh</th>
<th>#376 Shelby Seifer, Amanda Joyner</th>
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<td>Major: Materials Science &amp; Engineer</td>
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<td>Faculty Mentor: Compton, Brett Gibson</td>
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<td>Project Title: Multifunctional Ultralightweight Syntactic Foam for Custom Architecting of Aircraft Radomes</td>
<td>Project Title: The Effects on the Virtualization of Undergraduate Engineering Team Projects due to COVID-19</td>
<td>Project Title: Designing a Dignified and Effective Meal Serving System For KARM</td>
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<td>#366 DeLaina McDonald</td>
<td>#371 Ankush Patel</td>
<td>#377 James Simmons</td>
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<td>Project Title: Development of a Surrogate Head Model for the Evaluation of Ventricular Catheter Performance</td>
<td>Project Title: Sense and Avoid via Neuromorphic Computing</td>
<td>Project Title: MalariaML: Predicting Clearance Using Random Forest Regression</td>
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<td>#367 Melanie Moczadlo</td>
<td>#372 Margie Peeler, Charles Webber, Jim Roebuck</td>
<td>#379 Robert Spurling</td>
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<td>Major: Materials Science &amp; Engineer</td>
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<td>Project Title: On the 3D Printing of Polypropylene (PP) and Post-processing Optimization of Thermomechanical Properties</td>
<td>Project Title: Gradual Rotary Adjustment for Sloped Surfaces (G.R.A.S.S)</td>
<td>Project Title: Entropy-Driven Phase Transitions in Complex Ceramic Oxides</td>
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<td>#368 Tyler Morris</td>
<td>#373 Naydia Peoples, Kassidy Boone, Jenny Patel</td>
<td>#380 Jordan Tibbits, Robert Spurling, Stephen Trewhitt, Vincenzo Musico</td>
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<td>Major: Biomedical Engineering</td>
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<td>Faculty Mentor: Reinbolt, Jeff</td>
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<td>Project Title: Development and Optimization of a Digital Hearing Aid to Increase Music Perception</td>
<td>Project Title: Structural and Rheological Analysis of Hydrogel for Local Pediatric Brain Tumor Drug Delivery</td>
<td>Project Title: Increasing the Durability and Service Lifetime of Neutron Scattering Sample Canisters through Mitigation of Diffusion Bonding Effects</td>
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<td>#369 Jacob Morton</td>
<td>#374 Vijay Rajagopal</td>
<td>#381 Kelsey Uselton</td>
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<td>Major: Materials Science &amp; Engineer</td>
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<td>Faculty Mentor: Zhuravleva, Mariya</td>
<td>Faculty Mentor: Abidi, Mongi A</td>
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<td>Project Title: Evaluating Codopants for Europium-Doped Potassium Strontium Iodide</td>
<td>Project Title: Effects of Degradation on Face Detectors</td>
<td>Project Title: Parameter Optimization for the Performance of a Reversible Fuel Cell</td>
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<td>#375 Sal Rohan Ramirez</td>
<td>#382 Matthew Valderrama, Rakesh Kamath, Logan White, Ryan Heldt</td>
<td>#383 Matthew Valderrama, Rakesh Kamath, Logan White, Ryan Heldt</td>
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<td>Major: Aerospace Engineering</td>
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<td>Faculty Mentor: Choo, Hahn</td>
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<td>Project Title: 3-D Printed PLA: Making a commonly brittle polymer elastic and ductile via annealment.</td>
<td>Project Title: Synchrotron x-ray radiography study on the effects of laser spot-melt parameters on melt pool dynamics in 15-5 and 17-4 PH SS alloys</td>
<td>Project Title: Synchrotron x-ray radiography study on the effects of laser spot-melt parameters on melt pool dynamics in 15-5 and 17-4 PH SS alloys</td>
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#383 Logan White, Ryan Heldt, James Lee, Winston Wright
Major: Materials Science & Engineer
Faculty Mentor: Rack, Philip D
Project Title: Using Combinatorial Sputtering to Investigate the Magnetic Properties of Ni-Fe-Cr Thin Films

#384 Colin Wikle, Matthew Smalley, Karli Palmer
Major: Electrical Engineering
Faculty Mentor: McFarlane, Nicole
Project Title: Integration of Sensors in Mannequins for Creating Artificial Drowning Victims

#385 Quinton Wright, Richard Gaddis, Katherine Gordon, Austin Houston
Major: Materials Science & Engineer
Faculty Mentor: Gilbert, Dustin Allen
Project Title: Development of a Free Surface Electrospinner for Respirator Applications

#386 Fuji Anday
Major: Biology
Faculty Mentor: Spirko, Robert L
Project Title: “A Choice: Retail or Classic College Dining.”

#387 Andrew Anderson
Major: History
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: The Undergraduate College Student View on the Viability and Effects of Third Parties in U.S. Politics

#388 Maci Allred
Major: Animal Science-Veterinary Medc
Faculty Mentor: Brouwers, Marcel
Project Title: The Pursuit of Truth: How Quantum Weirdness Demonstrates the Difficulties for Finding an Objective Truth Through Science

#389 Seoyoung An
Major: Computer Science
Faculty Mentor: Sheffield, Carrie Louise
Project Title: Are Girls Allergic to Algebra? The Impact of Gender Stereotypes on Students in STEM Fields

The College of Arts & Sciences Honors
English 298

#400 Cade Abbott
Major: Nuclear Engineering
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: Nuclear Energy: The Ideal Energy Production

#401 Mustafa Abdulhussein
Major: Biochem/Cellular/Molecular Bio
Faculty Mentor: Dean, Lance M
Project Title: English 298 Research Project: Purpose and Adherence of Greetings

#402 Dawson Adams
Major: Pre-Professional Programs
Faculty Mentor: Addicott, Randi Marie
Project Title: Study of Drug Patents and Economic Policy Regarding Pharmaceuticals

#403 Anhaar Ajaz
Major: Psychology
Faculty Mentor: Brouwers, Marcel
Project Title: Online Dating: The Future of Relationships

#404 Rawon Alfatlawi
Major: Chemistry
Faculty Mentor: Bannon, Brad
Project Title: Responsibilities of America: Should America Protect the Cultural Heritage of Iraq?

#405 Asal Alkuwaiter
Major: Undeclared
Faculty Mentor: Dean, Lance M
Project Title: The Arab American Identity

#406 Madeline Allen
Major: Nursing
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: Patient Noncompliance: The Ins and Outs of This Growing Issue

#407 Maci Allred
Major: Political Science
Faculty Mentor: Murphy, Samantha Ann
Project Title: School Dress Codes: Toxic Targeting and Psychological Effects

#408 Seoyoung An
Major: Computer Science
Faculty Mentor: Sheffield, Carrie Louise
Project Title: Are Girls Allergic to Algebra? The Impact of Gender Stereotypes on Students in STEM Fields

#409 Fuji Anday
Major: Biology
Faculty Mentor: Spirko, Robert L
Project Title: “A Choice: Retail or Classic College Dining.”

#410 Andrew Anderson
Major: History
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: The Undergraduate College Student View on the Viability and Effects of Third Parties in U.S. Politics

#411 Msgana Araya
Major: Chancellor’s Honors
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: Abstract for “America's Hidden Language of Anti-Immigrant Prejudice”

#412 Alex Austin
Major: Chancellor’s Honors
Faculty Mentor: Sheffield, Carrie Louise
Project Title: The Pursuit of Truth: How Quantum Weirdness Demonstrates the Difficulties for Finding an Objective Truth Through Science

#413 Piper Bailey
Major: Animal Science-Veterinary Medc
Faculty Mentor: Brouwers, Marcel
Project Title: The Effects of Gender Stereotypes on Female Farmers Prevalent in Agriculture

#414 McGwire Bains
Major: Business Administration
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: Speech Codes on Campus: A Solution to the Battle Between Freedom of Speech and Safety on College Campuses.
<table>
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<th>#415 Emily Becker</th>
<th>#422 Mackenzie Bond</th>
<th>#428 Abigail Brooks</th>
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<td><strong>Major:</strong> Marketing</td>
<td><strong>Major:</strong> Business Analytics/Statistics</td>
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<td><strong>Faculty Mentor:</strong> Murphy, Samantha Ann</td>
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<td><strong>Project Title:</strong> The Effect of Social Media on Political Division</td>
<td><strong>Project Title:</strong> Conspiracy and Social Media: How to Address the Spread of Misinformation Online</td>
<td><strong>Project Title:</strong> Impact of Police Officer Training</td>
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<td>#416 Jack Benkert</td>
<td>#423 Victoria Bowling</td>
<td>#429 Michael Broud</td>
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<td><strong>Major:</strong> Biology</td>
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<td><strong>Faculty Mentor:</strong> Addicott, Randi Marie</td>
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<td><strong>Project Title:</strong> The Affect of Money and Politics on a Patient’s Healthcare</td>
<td><strong>Project Title:</strong> Classroom Project Jordan Bowling</td>
<td><strong>Project Title:</strong> Marketing Plastics: Getting Consumers to Buy by Being a Good Person</td>
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<td>#417 Jules Bergman</td>
<td>#424 Isabel Boyd</td>
<td>#430 Joseph Brown</td>
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<td><strong>Major:</strong> Marketing</td>
<td><strong>Major:</strong> Mech/Aerospace/Biomed Engr</td>
<td><strong>Major:</strong> Biomedical Engineering</td>
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<td><strong>Faculty Mentor:</strong> Bannon, Brad Marie</td>
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<td><strong>Faculty Mentor:</strong> Gentry, Elizabeth Leigh</td>
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<td><strong>Project Title:</strong> Skydiving: Is the Risk Worth the Reward?</td>
<td><strong>Project Title:</strong> Push and Pull Factors for Women Pursuing STEM: A Qualitative Study</td>
<td><strong>Project Title:</strong> Addressing the Mental Health of Adolescents During the COVID-19 Pandemic</td>
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<td>#418 AJ Bettis</td>
<td>#425 Kendall Brady</td>
<td>#431 Emily Buckner</td>
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<td><strong>Major:</strong> English</td>
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<td><strong>Project Title:</strong> The Complexities of Two-Spirit: The Benefits of the Term and Interactions with Native and Queer Communities</td>
<td><strong>Project Title:</strong> The Great Depression of an Adolescent Mind: Psychotropic Therapy in the Mental Health of College Students</td>
<td><strong>Project Title:</strong> Teaching Black History in America: How the Country’s Education System is Failing Its Students</td>
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<td>#419 Kate Blankenship</td>
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<td><strong>Project Title:</strong> Mental Illness in the Asian American Community: Examining the Underutilization of Mental Health Services</td>
<td><strong>Project Title:</strong> Trump's Language and Influence on Social Media</td>
<td><strong>Project Title:</strong> Religious Influence on US Politics in the 21st Century</td>
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<td>#420 Michael Blomenberg</td>
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<td><strong>Major:</strong> Chemical Engineering</td>
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<td><strong>Faculty Mentor:</strong> Dean, Lance M</td>
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<td><strong>Project Title:</strong> Differing Emotional Reactions of College Students and Elders to the COVID-19 Pandemic</td>
<td><strong>Project Title:</strong> The Detrimental Effects of Parasocial Relationships on Teen’s Mental Health Through Usage of Video-streaming Services and Other Social Medias</td>
<td><strong>Project Title:</strong> The Affect of Transcendental and MBSR Meditation on Wellbeing</td>
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<td>#421 Ellen Bobo</td>
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#434 Elijah Callender  
**Major:** Mechanical and Aerospace Engr  
**Faculty Mentor:** Sheffield, Carrie Louise  
**Project Title:** Natural or Traditional: Understanding Two Treatments for Depression and Anxiety

#435 Scarlett Canada  
**Major:** English  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** iDepression: A Study into the Correlation of Social Media Use and Mental Illness

#436 Jacqueline Capron-Alcott  
**Major:** English  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Analyzing and Preventing Disparities in Autism Diagnosis Age and Treatment Access for Latino Families

#437 Sarah Carmichael  
**Major:** Lang, Comm, Humanities Educ  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Disney Projects the World: The Impact of Disney’s Portrayals of Cultures on People’s Perceptions of the World Around Them

#438 Cameron Carr  
**Major:** Biology  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** The Impact of Food on the Human Mind

#439 Giuliana Castillo  
**Major:** Economics  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Mitigating Economic Climate Change Effects in Low-Income Countries: Agriculture in Ethiopia

#440 Jason Catuncan  
**Major:** Biomedical Engineering  
**Faculty Mentor:** Spirko, Robert L  
**Project Title:** Impacts of Social Media on College Experience

#441 Jacob Cheney  
**Major:** Electrical Engineering  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** The Space Debris Issue

#442 Gracie Chiampas  
**Major:** Biochemistry  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Public Health’s Disregard for Women’s Health

#443 Caleb Cho  
**Major:** Computer Science  
**Faculty Mentor:** McCue, Kristina  
**Project Title:** Class Project English 298

#444 Maci Clark  
**Major:** Journalism/Electronic Media  
**Faculty Mentor:** Mackenzie, Scott Hutcheson  
**Project Title:** How Religious Language Impacts Politics

#445 Stella Clymer  
**Major:** English  
**Faculty Mentor:** Mackenzie, Scott Hutcheson  
**Project Title:** Socialism: An Intergenerational Study of a Loaded Term

#446 Gabriel Cobb  
**Major:** Biomedical Engineering  
**Faculty Mentor:** Murphy, Samantha Ann  
**Project Title:** The Effects of Climate Change on Coffee Production

#447 Kyra Cole  
**Major:** Chancellor’s Honors  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** What Generation Z’s Use of Trigger Warnings Tell Us About Generation Z

#448 Dalton Colvin  
**Major:** Mechanical and Aerospace Engr  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Japanese Internment Camps

#449 Eliza Conner  
**Major:** Biomedical Engineering  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Chronicle of a Prison Sentence Foretold: The Effect of Mental Health on Incarceration in the United States.

#450 Sarah Coutant  
**Major:** Biology  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Classroom Project

#451 Stephanie Craven  
**Major:** Marketing  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Implicit Bias in Policing: A Look at Bias-Reducing Training

#452 Mitchell Crockett  
**Major:** Chancellor’s Honors  
**Faculty Mentor:** Spirko, Robert L  
**Project Title:** How the American Youth Researches and Views the COVID Vaccine

#453 Natalie Dale  
**Major:** Management  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** Causes of Physical Attraction Between Young Adults
#454 Sophia Daniels
Major: Chancellor’s Honors
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: How are behavioral outcomes affect by the language of different economic classes

#455 Lauren Dial
Major: Biomedical Engineering
Faculty Mentor: Dean, Lance M
Project Title: The Effect of Social Media on College Aged Girls Body Image

#456 Duncan Dillman
Major: Engineering, Interdepartmental
Faculty Mentor: Spirko, Robert L
Project Title: COVID-19 Effect on Engineering Education

#457 Keegan Dolan
Major: Physics and Astronomy
Faculty Mentor: Bannon, Brad
Project Title: Tribalism in College Students Viewed Through Opinions on Superstitions

#458 Madaline Dople
Major: English
Faculty Mentor: Brouwers, Marcel
Project Title: The Allure in Spite of Controversy: The Motivations of Young Adults to Play Violent Video Games & Beliefs on the Impact of Violent Games on the Real World: A Qualitative Study

#459 Joshua Douden
Major: Mathematics
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: The Influence and Prevalence of A.C.A.B.

#460 Emily Ducharme
Major: Nursing
Faculty Mentor: Addicott, Randi Marie
Project Title: Why Living Organ Donor Compensation Should Be Legalized

#461 Anna Duff
Major: Sociology
Faculty Mentor: Dean, Lance M
Project Title: The influence of fathers on a man’s perspective on mental health.

#462 Drew Duncan
Major: Pre-Professional Programs
Faculty Mentor: Addicott, Randi Marie
Project Title: Abstract

#463 Isabelle Dunkelberger
Major: Psychology
Faculty Mentor: Bannon, Brad
Project Title: Back Pain Among College Students: Investigating Its Prevalence and Associated Risk Factors

#464 Elizabeth Duty
Major: Biomedical Engineering
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: The Continuity of African American Discrimination in the Field of Mathematics

#465 Ashleigh Dwyer
Major: Supply Chain Management
Faculty Mentor: Brouwers, Marcel
Project Title: Consequences of Innovation: The Harmful Effect of Social Media on Teenagers’ Mental Health

#466 Griffin Elder
Major: Computer Science
Faculty Mentor: Spirko, Robert L
Project Title: Studying the opinion of college students on the function of work in modern society.

#467 Katherine Emery
Major: Supply Chain Management
Faculty Mentor: Dean, Lance M
Project Title: Investing in the Social Media Sphere

#468 Dayton Enderson
Major: Biomedical Engineering
Faculty Mentor: Dean, Lance M
Project Title: Effects of Sports Participation on Child Development

#469 Thomas Ensley
Major: Nuclear Engineering
Faculty Mentor: Brouwers, Marcel
Project Title: Twitter in the Public Square: Content Moderation Policy in Focus

#470 Autumn Erwin
Major: Mech/Aerospace/Biomed Engr
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: The Ethicality and Effect of Advertisement Practices Used by the Animal Agriculture Field

#471 Olivia Escher
Major: Animal Science-Veterinary Medc
Faculty Mentor: Sheffield, Carrie Louise
Project Title: The Ethicality and Effect of Advertisement Practices Used by the Animal Agriculture Field

#472 Audrey Fairchild
Major: Chemical Engineering
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: White Supremacy and Racial Disparities in the American Medical Field: Analyzing the Impact of Systemic Racism to Improve Modern Medicine

#473 Mikayla Fantine
Major: Chemical and Biomolecular Engr
Faculty Mentor: Brouwers, Marcel
Project Title: The Impact of Mental Health Education on the Influence of the Mental Illness Stigma
#474 Allison Farley  
**Major:** Political Science  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** Misinformation Breeds: Emergency Contraception and the Sexual Education Crisis

#475 Leah Faupel  
**Major:** Interdisciplinary Programs  
**Faculty Mentor:** Murphy, Samantha Ann  
**Project Title:** Holocaust Education and its Impact on Antisemitism

#476 Lauren Favier  
**Major:** Design  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** “Liberal Indoctrination:” Fact or Fiction?

#477 Caleb Fisher  
**Major:** Electrical Engr & Computer Sci  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** Perceptions of Tarantino

#478 Caden Fluegge  
**Major:** Ecology/Evolutionary Biology  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** A Qualitative Study of Risk-Taking, its Origins, and Repercussions

#479 Sami Foley  
**Major:** Psychology  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** The Effects of the One Child Policy in China

#480 Jackson Foster  
**Major:** Journalism/Electronic Media  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Revisions to the Cloture Rule and the Filibuster to Create a More Efficient Senate

#481 William Frasher  
**Major:** English  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Does Literary History Accurately Reflect Real History?: How Literature’s Role in Cultural Memory Has Had a Negative Impact on Society

#482 Sarah Freels  
**Major:** Marketing  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** College Readiness

#483 Valerie Fung  
**Major:** Biology  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** The Truth about Comfort Women: How Rewritten History in Japanese Education Compares to American Teachings of Uncomfortable History

#484 Alyssa Gaskins  
**Major:** Nursing  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Schools, Climate Change, and Their Relationship

#485 Jack Gillespie  
**Major:** Psychology  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Keep Ya Head Up: Hip Hop and Social Movements Through Adversity

#486 Evan Gitto  
**Major:** Biomedical Engineering  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Overhyped and Underdeveloped: The Current State of Electric Vehicles

#487 Raina Goodwin  
**Major:** Nursing  
**Faculty Mentor:** Murphy, Samantha Ann  
**Project Title:** Analysis of the Effects of Social Media Use on the Self-Esteem of Young Women

#488 Ashlynn Green  
**Major:** Undeclared  
**Faculty Mentor:** Bannon, Brad  
**Project Title:** Social Media Influencers: What’s the Hype?

#489 Rylan Greene  
**Major:** Pre-Professional Programs  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Euthanasia and Ethical Dilemmas

#490 John Greene  
**Major:** Mech/Aerospace/Biomed Engr  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** How do College Students’ Listening Habits Affect Appreciation of Music?

#491 Andrew Gullahorn  
**Major:** Philosophy  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Safe Sex: How Countries can Protect their Sex Workers

#492 Isabelle Hamby  
**Major:** Civil and Environmental Engr  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** The Effects of Plastic Pollution Knowledge on Plastic Habits

#493 Kathryn Hamlin  
**Major:** English  
**Faculty Mentor:** Bannon, Brad  
**Project Title:** “Compassionate Corporations: Brand Activism and Its Authenticity”

#494 Sarah Harper  
**Major:** Pre-Professional Programs  
**Faculty Mentor:** Gentry, Elizabeth Leigh  
**Project Title:** Constitutional Duality: The Polarization of the United States Constitution in American Law
#495 Katherine Havranek
Major: Nursing
Faculty Mentor: Addicott, Randi Marie
Project Title: Racial Bias in Medical Education

#496 Stephen Hay
Major: English
Faculty Mentor: Dean, Lance M
Project Title: The Effect of an Increasing Average Age of Politicians on College Age Voters

#497 Charles Hayes
Major: Engineering Studies
Faculty Mentor: Murphy, Samantha Ann
Project Title: Working Towards the Mission to Mars

#498 Dawson Hazen
Major: English
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: The Analysis of Language and Its Impact on the Christian Church

#499 Alexandra Helms
Major: Psychology
Faculty Mentor: Mackenzie, Scott Hutcheson
Project Title: Analyzing the Complex Relationship between Religion and Conspiracism

#500 Parker Henderson
Major: Mechanical and Aerospace Engr
Faculty Mentor: Addicott, Randi Marie
Project Title: Is the Mormon Church a Cult?

#501 Greer Henry
Major: Psychology
Faculty Mentor: McCue, Kristina
Project Title: The Impact of Political Maneuvers on Social Media Misinformation in America

#502 Gillian Hertslet
Major: Biology
Faculty Mentor: Bannon, Brad
Project Title: Undergraduate Perceptions on the Ethicality of Eugenics in the Medical Field

#503 Elizabeth Hickman
Major: Nursing
Faculty Mentor: Sheffield, Carrie Louise
Project Title: English 298 Secondary Source Paper Abstract

#504 Katherine Hoover
Major: Accounting/Information Mgmt
Faculty Mentor: Sheffield, Carrie Louise
Project Title: Female Hysteria: How a Sexist Misconception Has Been Reclaimed for Feminist Purposes

#505 Sydney Hopper
Major: Undeclared
Faculty Mentor: Brouwers, Marcel
Project Title: The Influence of Crime Dramas on College Student Perceptions of Real Crime

#506 Sanaz Hossain
Major: Chancellor's Honors
Faculty Mentor: Dean, Lance M
Project Title: College Students’ Opinion on Covid-19 Vaccines

#507 Sidney Howell
Major: Marketing
Faculty Mentor: Dean, Lance M
Project Title: The Impact of Social Media on College-Age Girls’ Self Value and Presentation of Self

#508 Sarah Huang
Major: Electrical Engr & Computer Sci
Faculty Mentor: Brouwers, Marcel
Project Title: A Wake-Up Call: The Lurking Dangers of Lucid Dreaming

#509 Hannah Hubbuch
Major: Communication/Information
Faculty Mentor: Addicott, Randi Marie
Project Title: Social Media Stressors Abstract

#510 Madison Huffstutterm
Major: Psychology
Faculty Mentor: Bannon, Brad
Project Title: Is It Really Cheating: Views on Cheating in the Digital Age

#511 Keisha Hunsucker
Major: Chancellor's Honors
Faculty Mentor: Brouwers, Marcel
Project Title: The Impact of Echo-Chambers in Social Media

#512 Apiranee Iverson
Major: Chancellor’s Honors
Faculty Mentor: Murphy, Samantha Ann
Project Title: The Influence of Women’s Swimwear on Body Image Stereotypes in the modern American culture

#513 Rachel Ivy
Major: Biomedical Engineering
Faculty Mentor: Gentry, Elizabeth Leigh
Project Title: Cut, Bulk, Repeat: Research of Muscular Dysmorphia in Men

#514 Harrison James
Major: Mechanical and Aerospace Engr
Faculty Mentor: Dean, Lance M
Project Title: College Athletics and Student’s Success

#515 Madison Kalb
Major: Psychology
Faculty Mentor: Sheffield, Carrie Louise
Project Title: Gender Discrimination: An Analysis of The Effects of Religious Teachings About Women
#516 Joseph Kalla  
**Major:** Chemical and Biomolecular Engr  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** Technological Developments and Their Effect on Music Production

#517 Lawton Keeran  
**Major:** English  
**Faculty Mentor:** Murphy, Samantha Ann  
**Project Title:** Monetization of News Sites and the Spread of Fake News

#518 Erin Kelley  
**Major:** Psychology  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** The Legality and Practice of Euthanasia in Terminally Ill Patients

#519 Emily Kelley  
**Major:** Audiology/Speech Pathology  
**Faculty Mentor:** Mackenzie, Scott Hutcheson  
**Project Title:** How Language Affects Cult Growth

#520 Elizabeth Kemp  
**Major:** Biology  
**Faculty Mentor:** Murphy, Samantha Ann  
**Project Title:** Adverse Effects of Deforestation

#521 Sean Kiefer  
**Major:** Marketing  
**Faculty Mentor:** Sheffield, Carrie Louise  
**Project Title:** Contextualizing Social Media’s Effect on Presidential Elections

#522 Ellis Kim  
**Major:** Chancellor’s Honors  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Necessity or Desire for Cultural Assimilation: The Unveiled Perspectives of Asians in the U.S.

#523 Anderson King  
**Major:** Chemical and Biomolecular Engr  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Investigating the Causes and Motivations for Public Shaming and Ostracism in Modern Culture

#524 Jacob Klassen  
**Major:** Computer Science  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Higher education and political identity: The effect of schooling on political beliefs

#525 Jacob Knight  
**Major:** Chemistry  
**Faculty Mentor:** Sheffield, Carrie Louise  
**Project Title:** Game Night: How Board Games Can Be Applied to the Classroom to Benefit Education

#526 Kayla Koory  
**Major:** Biology  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** Examining the Effect of Age on Climate Change Anxiety and Action

#527 Adam Kreider  
**Major:** Art  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Proper Contempt: An Experiment on Global Views of Fringe Religions

#528 Aryan Kumar  
**Major:** Finance  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Misinformation and How it Contributes to Mob Mentality

#529 Camille Landstreet  
**Major:** Civil and Environmental Engr  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Fixing a Flawed Financial Aid System

#530 Haley Lansdon  
**Major:** Mech/Aerospace/Biomed Engr  
**Faculty Mentor:** Sheffield, Carrie Louise  
**Project Title:** Female Representation in Video Games and How It Affects Players

#531 Rachel Laribee  
**Major:** English  
**Faculty Mentor:** Murphy, Samantha Ann  
**Project Title:** The Potential Benefit of Counseling Therapy for Transgender High School Teens in the U.S.

#532 Samuel Lee  
**Major:** Finance  
**Faculty Mentor:** Bannon, Brad  
**Project Title:** "Are Chiropractors Practical"

#533 Christian Lee  
**Major:** Industrial Engineering  
**Faculty Mentor:** Dean, Lance M  
**Project Title:** Gen Z: Thoughts and Feelings Towards Nuclear Safety

#534 Remi Lehmen  
**Major:** Mech/Aerosp Engr/Engr Sci  
**Faculty Mentor:** Addicott, Randi Marie  
**Project Title:** Colonizing Mars: Future Ethical Problems

#535 Sarah Lerner  
**Major:** Psychology  
**Faculty Mentor:** Brouwers, Marcel  
**Project Title:** Modern Family: The Effect of Sibling Relationships on Psychosocial Development
<p>| #536 | Katelyn Lively | Major: Pre-Professional Programs | Faculty Mentor: Gentry, Elizabeth Leigh | Project Title: Creating the Coronavirus: Evaluating Human Interactions with Wildlife that Drive Zoonotic Diseases like COVID-19 |
| #537 | Isabel Long   | Major: Psychology               | Faculty Mentor: Dean, Lance M             | Project Title: The Effect of Screen Time on Sociability in 2020 |
| #538 | Natalia Loram| Major: Political Science        | Faculty Mentor: Spirko, Robert L          | Project Title: The Influence of Social Media on Political Opinion |
| #539 | Blythe Lundberg | Major: Civil Engineering      | Faculty Mentor: Murphy, Samantha Ann      | Project Title: A Climate Changed by Cows |
| #540 | Bryce Luttrell | Major: English                 | Faculty Mentor: Dean, Lance M             | Project Title: College Students On How Their Parents’ Affected Them: Major Edition |
| #541 | Isabelle Lux  | Major: Kinesiology/Recreat/Sport St | Faculty Mentor: Dean, Lance M       | Project Title: How Gender Stereotypes Affect Workouts of College Aged Girls |
| #542 | Anna Lynn     | Major: Psychology              | Faculty Mentor: Brouwers, Marcel          | Project Title: The Effects of televised News Outlet Biases Regarding Immigration on the Opinions of College Students in the United States. |
| #543 | John-Michael Lyons | Major: Human Resource Development | Faculty Mentor: Murphy, Samantha Ann       | Project Title: How can Americans Recover from a Failed Economy |
| #544 | Isabella Macher | Major: Mech/Aerospace/Biomed Engr | Faculty Mentor: Brouwers, Marcel         | Project Title: The Damaging Effects Advertisements Have on Women and How to Improve Them |
| #545 | Nicole Makaras | Major: English                | Faculty Mentor: Brouwers, Marcel          | Project Title: Hidden Figures: The Implications of Sexism on Women’s Academic Advancement within Higher Education |
| #546 | Eleanor Mancini | Major: Chancellor’s Honors     | Faculty Mentor: Mackenzie, Scott Hutcheson | Project Title: Who is a terrorist? |
| #547 | Margaret Marando | Major: English               | Faculty Mentor: Addicott, Randi Marie     | Project Title: Secondary Source Research Project |
| #548 | Avery Martin  | Major: Undeclared             | Faculty Mentor: Bannon, Brad             | Project Title: True Studies, True Crime: Investigating How a University Student’s Major Affects Their Interest in True Crime Media. |
| #549 | Caitlyn McCall | Major: Chancellor’s Honors    | Faculty Mentor: Spirko, Robert L          | Project Title: The Influence of American Education in the Opinion of Nuclear Power |
| #550 | Amelia Mccluskey | Major: Interior Architecture  | Faculty Mentor: Addicott, Randi Marie     | Project Title: The Interdependence of Drug Abuse and Human Abuse |
| #551 | Evan Mcfarland | Major: Biosystems Engr/Soil Science | Faculty Mentor: Addicott, Randi Marie | Project Title: Nonrenewable Energy’s Effect on Sustainability |
| #552 | Kara McNutt   | Major: Animal Science         | Faculty Mentor: Brouwers, Marcel          | Project Title: Overcoming our Differences: How Political Disagreements Effect Relationships |
| #553 | Cloey McWilliams | Major: English                | Faculty Mentor: Spirko, Robert L          | Project Title: Extraterrestrials in the Public’s Eyes |
| #554 | William Medlin | Major: English                | Faculty Mentor: Brouwers, Marcel          | Project Title: How Stress and Parental Pressure Manifests in Students and Affects Their Performance |
| #555 | Fredrick Melhorn | Major: Physics and Astronomy | Faculty Mentor: Sheffield, Carrie Louise | Project Title: The Future of Space Travel: Examining the Potential Ramifications on Human Society |
| #556 | Samuel Milejczak | Major: Mechanical and Aerospace Engr | Faculty Mentor: Sheffield, Carrie Louise | Project Title: The Dilemma of Engineering Ethics |
| #557 | Ezra Miller | Major: Anthropology | Faculty Mentor: Brouwers, Marcel | Project Title: Bye-Bye American Pie: Modern Perceptions of Male Virginity of Young Adults in the United States |
| #558 | Sarah Miller | Major: Mech/Aerospace/Biomed Engr | Faculty Mentor: Dean, Lance M | Project Title: A Study on Personality Development in Multiples |
| #559 | Benjamin Moder | Major: Chemistry | Faculty Mentor: Dean, Lance M | Project Title: Apple Ecosystem: Major Differences |
| #560 | Bear Moran | Major: Electrical Engr &amp; Computer Sci | Faculty Mentor: Addicott, Randi Marie | Project Title: Understanding How to Deliver an Effective Corporate Apology |
| #561 | Ava Mosadegh | Major: Pre-Professional Programs | Faculty Mentor: Brouwers, Marcel | Project Title: Parental Intuition: The Importance of Father-Child Relationships during an Age of Equality |
| #562 | Mackenzie Moser | Major: Mech/Aerospace/Biomed Engr | Faculty Mentor: Gentry, Elizabeth Leigh | Project Title: Personalized Treatment for Oncology Patients: Genome Mapping is Where the Future Lies |
| #563 | Joseph Motto | Major: Mech/Aerospace/Biomed Engr | Faculty Mentor: Sheffield, Carrie Louise | Project Title: Theory and Law: Whether or not Scientists Should be Opposed |
| #564 | Matthew Mund | Major: Computer Science | Faculty Mentor: Sheffield, Carrie Louise | Project Title: Prisoners: The Psychological Effects of Serving Time |
| #565 | Raeganne Murdock | Major: Biology | Faculty Mentor: McCue, Kristina | Project Title: Comparing the Civil Rights Movement to the Black Lives Matter Movement |
| #566 | Shannon Murphy | Major: Business Analytics/Statistics | Faculty Mentor: Dean, Lance M | Project Title: TikTok’s Influence on College-Aged Students |
| #567 | Kathryn Murphy | Major: Mechanical and Aerospace Engr | Faculty Mentor: Murphy, Samantha Ann | Project Title: Stopping Wildfires by Stopping Climate Change |
| #568 | Natalie Murrah | Major: Accounting | Faculty Mentor: Dean, Lance M | Project Title: The Domination of Streaming Services |
| #569 | Robert Myrick | Major: Journalism/Electronic Media | Faculty Mentor: Sheffield, Carrie Louise | Project Title: Eternal Sunshine or Endless Abuse: An Examination of Self-Deception in Romance |
| #570 | Katelyn Neal | Major: Pre-Professional Programs | Faculty Mentor: Dean, Lance M | Project Title: Social Media Usage and School-Related College Study Hours |
| #571 | Averre Neff | Major: University Undecided | Faculty Mentor: Dean, Lance M | Project Title: Spiritual Identity and Attitudes Towards Dreaming |
| #572 | Caitlin Nelligan | Major: Pre-Professional Programs | Faculty Mentor: Gentry, Elizabeth Leigh | Project Title: Physicians Assisted Suicide: Why Patients have a Right to Death |
| #573 | Elizabeth Nelms | Major: Undeclared | Faculty Mentor: Murphy, Samantha Ann | Project Title: Using Previous Mass Trauma Research Conducted on 9/11 to Evaluate the Potential Psychological Effects of the COVID-19 Pandemic |
| #574 | Madeline Nunnery | Major: Arch/Inter Dsgn Interdepart | Faculty Mentor: Mackenzie, Scott Hutcheson | Project Title: Astrology and Modern Beliefs |
| #575 | Emily Olatt | Major: English | Faculty Mentor: McCue, Kristina | Project Title: The Effects of Anti-Japanese Propaganda on the Perception of East Asians in America |
| #576 | Carson O’Leary | Major: Biology | Faculty Mentor: Sheffield, Carrie Louise | Project Title: Psychology Today: The Impact of Cloning |</p>
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#637 Avery Smith  
Major: Economics  
Faculty Mentor: Dean, Lance M  
Project Title: Childhood Exposure to Finances and their Effect on Investment Habits

#638 Julianna Smith  
Major: Kinesiology/Recreat/Sport St  
Faculty Mentor: Dean, Lance M  
Project Title: The Effect of Social Isolation on the Mental Health of College Students

#639 Meghan Smitherman  
Major: Mech/Aerospace/Biomed Engr  
Faculty Mentor: Brouwers, Marcel  
Project Title: Preferred Methods of Communication and their Correlation to Introversion or Extroversion

#640 Eva Sparks  
Major: Kinesiology/Recreat/Sport St  
Faculty Mentor: Brouwers, Marcel  
Project Title: A Case of Mistaken Identity: A Study into the Reform of Eyewitness Testimony Collection

#641 Peyton Spearry  
Major: Animal Science  
Faculty Mentor: Brouwers, Marcel  
Project Title: Living on Borrowed Time: An Investigation Behind the Declining Prevalence of Serial Killers in America

#642 Rebecca Specht  
Major: Mech/Aerospace/Biomed Engr  
Faculty Mentor: Gentry, Elizabeth Leigh  
Project Title: We the People: Policies to Protect the Ethics of Human Vaccine Trials During Pandemics

#643 Caroline Speights  
Major: Biology  
Faculty Mentor: Bannon, Brad  
Project Title: Social Stigma Surrounding Mental Health

#644 Evelyn Spencer  
Major: Music  
Faculty Mentor: Brouwers, Marcel  
Project Title: Misinformation Storm: How a troll from the depths of the internet created a conspiracy typhoon

#645 Tony Spezia  
Major: Mech/Aerospace/Biomed Engr  
Faculty Mentor: Spirko, Robert L  
Project Title: The Influence of Extracurricular Involvement on Academics at UTK

#646 Gracie Stallings  
Major: Pre-Professional Programs  
Faculty Mentor: Gentry, Elizabeth Leigh  
Project Title: Oil Through Indigenous Lands: The Pros and Cons of Pipeline Projects for Native Americans

#647 Duncan StClair  
Major: Physics and Astronomy  
Faculty Mentor: Gentry, Elizabeth Leigh  
Project Title: College Student Trust in Medical Professionals

#648 Kathryn Stehle  
Major: Civil Engineering  
Faculty Mentor: Dean, Lance M  
Project Title: A Classroom Project for Chancellor’s English 298: Student Perspectives on High School Graduation Requirements

#649 Alexander Stephens  
Major: Biochem/Cellular/Molecular Bio  
Faculty Mentor: Spirko, Robert L  
Project Title: College Student Trust in Medical Professionals

#650 Ian Stephenson  
Major: Psychology  
Faculty Mentor: McCue, Kristina  
Project Title: A Classroom Project for Chancellor’s Honors English 298

#651 Benjamin Stetson  
Major: Undeclared  
Faculty Mentor: Addicott, Randi Marie  
Project Title: Crime and Freedom: Anonymity on the Dark Web

#652 Madelyn Strong  
Major: Chancellor’s Honors  
Faculty Mentor: Brouwers, Marcel  
Project Title: Serial Killer Studies vs. People’s Perceptions: How Does Child Abuse Affect Serial Killers?

#653 Virginia Stuart  
Major: Kinesiology/Recreat/Sport St  
Faculty Mentor: McCue, Kristina  
Project Title: Class Project for Chancellor’s Honors Program 298

#654 Maria Subtirelu  
Major: Psychology  
Faculty Mentor: Sheffield, Carrie Louise  
Project Title: Fake News: How Confirmation Bias Works Alongside the Media to Spread Misinformation

#655 Sophie Susano  
Major: Political Science  
Faculty Mentor: Dean, Lance M  
Project Title: Genetics: How They Affect Self-Perception and Sense of Identity

#656 David Taylor  
Major: Biology  
Faculty Mentor: Mackenzie, Scott Hutcheson  
Project Title: Comparing Levels of Implicit and Explicit Support for Socialism in the United States
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<td>The “R” Word: Barriers Autistic People Face When Seeking Higher Education and Employment</td>
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Research presented at the 25th Annual Exhibition of Research and Creative Achievement benefitted, or was conducted in conjunction with the following organizations:

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Boys & Girls Clubs of the Tennessee Valley
CAC Office on Aging
Cancer Support Community of East Tennessee
Cherokee Health Systems
Choice Health Network
Department of Energy National Nuclear Security Administration
East Tennessee Children's Hospital
East Tennessee STEM Hub
Electric Power Research Institute
Emerald Youth Foundation
Fellowship of Christian Athletes
Foundation Gift Fund - Susan Thornton
Friends of Literacy
Hope Resource Center
IEEE CASS
InterFaith Health Clinic
KICKO
Knox County Health Department
Knoxville Area Rescue Ministries
Knoxville Inner City Kids Outreach (KICKO)
Little Oaks Academy
Lost Sheep Ministry/Knoxville Dream Center
Metro Drug Coalition
Micronesia Conservation Trust-Bill Raynor Scholarship
National Institute of Health (NIH)
Oak Ridge National Laboratory
Phyllis Wheatley Center in conjunction with the YWCA
Precious Prints Project
Ronald McDonald House of Knoxville
Salvation Army
Sertoma Center
Sexual Assault Center of East Tennessee
SHADES of Development
South Knox Elementary School Boys and Girls Club
Sphinx Organization, American Viola Society
Tennessee Wildlife Resources Agency
United States Fish and Wildlife Service
The East Foundation
Caesar Kleberg Wildlife Research Institute at Texas A&M
The Center for Conservation of Research of Endangered Wildlife (CREW)
The Dream Connection
Thrive Lonsdale
United States Army Research Laboratory
University of Cincinnati
Vine School Health Clinic
Volunteer Ministry Center
Wesley House
Windsor Gardens Assisted Living
YWCA Knoxville