



Wofford College

**STUDENT-FACULTY COLLABORATIVE  
FALL RESEARCH**

Fall 2019



# COLLABORATIVE RESEARCH WITH DR. AMY L. TELLIGMAN, ASSISTANT PROFESSOR OF ENVIRONMENTAL STUDIES

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**Elizabeth Blackhall '19** from Cartersville, Georgia, graduated with a degrees in environmental studies and German and a minor in international affairs. Blackhall worked with Telligman on a USDA grant to perform a Spartanburg County food system assessment. The purpose of the grant was to investigate the needs of the Upstate food system by surveying different stakeholder groups within the community. It was part of a three-county assessment. Blackhall is a first-year law student at the University of New Hampshire Franklin Pierce School of Law.



**Reeves Goettee '20**, an environmental studies and biology major from Summerville, South Carolina, conducted research on the state of the food system in Spartanburg County with the Spartanburg Food System Coalition. The food assessment and plan are ongoing, but by conducting surveys with local community partners, it has enabled the coalition to better understand practical actions that can be put into place to strengthen access to local and healthy food in the Upstate of South Carolina.



**Ireland McGaughey '20** is an environmental studies and sociology and anthropology major from Savannah, Georgia. McGaughey worked with Telligman on a research project for the Spartanburg Food System Coalition. They gathered gathering survey data and other information from a variety of people and organizations in the Upstate area with the goal of creating a plan to implement greater healthy and local food access in the Upstate of South Carolina. McGaughey is excited to see what the Spartanburg Food System Coalition can do to make a difference in the future.

# RAPID RESEARCH ROUNDUP DEPARTMENT OF BIOLOGY TUESDAY, SEPT. 24, 2019

Organized by Dr. Geoffrey C. Mitchell, assistant professor of biology

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**Title: CPRIT CURE Program MD Anderson**

Student: Gabriel Mesa '21

**Title: Microbial Community Interactions  
at the University of Tennessee REU**

Student: Gus Collars '20

**Title: Antibiotic Resistance in Probiotics**

Students: Peyton Godwin '21, Ethan DiBlasio '21 and Marcus Stallings '20

Faculty Mentor: Dr. Tracie M. Ivy

**Title: The Role of Complement in Bone Cell Differentiation**

Student: Andrew Reynolds '21

**Title: Identifying Genes in Algae Cells that Reside within Coral Cells**

Student: Joe Zavell '20

Faculty Mentor: Dr. Geoffrey C. Mitchell

**Title: Pfizer Inc. Summer Student Worker Program**

Student: Austin D'Addario '20

**Title: Physical Limits of CRISPR-SpCAS9 specificity**

Student: Sam Padula '20

Supported by the Papadopoulos Scholarship



# “SIENDO MUJER: A SHORT STUDY OF THE FEMALE EXPERIENCE IN SOUTH AMERICA.”

Lydia Estes '20  
Wofford's 35th Presidential International Scholar  
Saturday, Oct. 26, 2019

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During her travels and research in the South American countries of Chile, Argentina, Uruguay and Peru, Estes attempted to uncover the visual representation of “la mujer” of the woman. “Siendo mujer” means “being a woman,” and this exhibition represented the conversations she shared with resilient, creative women for whom art plays a significant role in their female experience and vice versa. It was further a collection of their artwork and Estes’ photographs of these women, their spaces and moments that contribute to the story each is trying to tell through their work.



# INAUGURAL FAMILY WEEKEND UNDERGRADUATE RESEARCH FORUM

organized by Dr. Ramón Galiñanes Jr.  
Director of Undergraduate Research and Post-Graduate Fellowships  
Saturday, Oct. 26, 2019

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**Title: Housing the Community or Tourists:  
Processes of Gentrification in Galveston Post-Hurricane Ike**

Student: Hana Barazi '20

**Title: Memory and Stress in Negative Images,  
Related Neutral Images and Unrelated Neutral Images**

Students: Jalen Carter '20 and Maddie Schutte '21

Faculty Mentor: Dr. Katherine R. Steinmetz

**Title: Molecular Characterization of  
Secondary Organic Aerosol by Mass Spectrometry**

Student: Savannah Talledo '20

**Title: Child Dietary Preferences:  
Understanding the Connection Between Cultural Awareness and  
Child Obesity Rate in Spartanburg, S.C.**

Student: Laurel Lee '20

Faculty Mentor: Dr. Laura H. Barbas Rhoden

**Title: Ebola virus secreted glycoprotein (sGP)  
enhances maturation of dendritic cells**

Student: Emily Moore '21

Faculty Mentor: Dr. Stefanie H. Baker

**Title: Back of the College**

Student: Jara Dogan '22

Faculty Mentor: Dr. Jim R. Neighbors

**Title: Identifying Genes in Algae Cells that Reside within Coral Cells**

Student: Joe Zavell '20

Faculty Mentor: Dr. Geoffrey C. Mitchell

**Title: A Poisson Regression Model of  
Zika Case Virus in Colombia as Grouped by Location**

Student: Alexis Tomlin '21

Faculty Mentor: Dr. Deidra A. Coleman

# INAUGURAL FAMILY WEEKEND UNDERGRADUATE RESEARCH FORUM (CONT.)

Saturday, Oct. 26, 2019

## **Title: Understanding Kindergarten Readiness Data: Qualitative Research Study of Forest Park and Highland Neighborhoods**

Students: Mayra Lomeli-Garcia '21, Mariana Gonzalez '21, Sandra Lopez '21, Naya Taylor '21, Jay Stevens '21 and Hector Ortiz '22

Faculty Mentors: Dr. Christine S. Dinkins and Dr. Laura H. Barbas Rhoden

## **Title: Antibiotic Resistance in Probiotics**

Student: Marcus Stallings '20

Faculty Mentor: Dr. Tracie M. Ivy



# FOURTH ANNUAL SOCON UNDERGRADUATE RESEARCH FORUM (SURF)

Organized by Dr. Ramón Galiñanes Jr.  
Director of Undergraduate Research and Post-Graduate Fellowships  
Nov. 2-3, 2019

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## **Title: Antibiotic Resistance in Probiotics**

Students: Peyton Godwin '21, Ethan DiBlasio '21 and Marcus Stallings '20  
Faculty Mentor: Dr. Tracie M. Ivy

## **Title: Out of School Time for Latinx Youth in Spartanburg, S.C.**

Students: Sandra Lopez '21 and Hector Ortiz '22  
Faculty Mentor: Dr. Laura H. Barbas Rhoden

## **Title: Ebola virus secreted glycoprotein (sGP) enhances maturation of dendritic cells**

Student: Emily Moore '21  
Faculty Mentor: Dr. Stefanie H. Baker

## **Title: Understanding Kindergarten Readiness Data – Forest Park**

Student: Jay Stevens '21 and Mayra Lomeli-Garcia '21  
Faculty Mentor: Dr. Christine S. Dinkins

## **Title: Understanding Kindergarten Readiness Data – Highlands**

Student: Naya Taylor '21 and Mariana Gonzalez '21  
Faculty Mentor: Dr. Christine S. Dinkins

## **Title: An Evolutionary Arms Race – Screening for anti-CRISPR factors in streptococcus thermophilus**

Student: Raven Tucker '21

## **Title: Housing the Community or Tourists: Processes of Gentrification in Galveston Post-Hurricane Ike**

Student: Hana Barazi '20

## **Title: Event Related Potential Study Discerning the Processing of Emotional and Neutral Stimuli**

Students: Jalen Carter '20, Maddie Schutte '21,  
Jenna Vroman '20 and Haiden Lancaster '20  
Faculty Mentor: Dr. Katherine R. Steinmetz

# FOURTH ANNUAL SOCON UNDERGRADUATE RESEARCH FORUM (SURF) (CONT.)

Nov. 2-3, 2019

## **Title: Child Dietary Preferences: Understanding the Connection Between Cultural Awareness and Child Obesity Rate in Spartanburg, S.C.**

Student: Laurel Lee '20

Faculty Mentor: Dr. Laura H. Barbas Rhoden

## **Title: Surveillance and Patriarchy**

Student: Anne Claire Minter '22

Faculty Mentor: Dr. Kimberly A. Hall

## **Title: Molecular Characterization of Secondary Organic Aerosol by Mass Spectrometry**

Student: Savannah Talledo '20





# PHILOSOPHY MAJOR CAPSTONE PRESENTATIONS

Nov. 21, 2019

Organized by Dr. Jeremy E. Henkel, associate professor of philosophy

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## **Title: The Rationality of a Hidden God**

Student: Ben Karriker '20

Description: At first glance, the fields of economics and philosophy seem to be quite far apart. However, I will attempt to show how they can work in tandem to help us understand the implications of divine hiddenness. With regards to economics, Steven Brams' belief game shows us that God has a dominant strategy to remain hidden and therefore one cannot ever know whether He actually exists because He will always remain hidden. On the other hand, J.L. Schellenberg argues that divine hiddenness justifies atheism, stating that God does not exist because evidence sufficient to form belief in His existence is absent. I will attempt to show how Brams weakens Schellenberg's argument and provide insight into how he manages to do so.

## **Title: The Facticity of our Technological Demise**

Student: Josh Olmi '20

Description: This project looks at the view of human facticity, rather than human nature, and how our current amount of technology in the world affects our facticity through being conditioned by technology. The effects of technology must be understood, as technology's effects lead to an incorrect view of our human facticity. Therefore, our incorrect view of human facticity and the effects of technology create a host of social issues and issues of government when it comes to dealing with these social issues in our society.

## **Title: Putting the "Bad" in Bad Faith: a Kantian Defense of Sartre**

Student: Carrie Ruff '20

Description: Sartre's description of bad faith is more descriptive than persuasive, as it does not fully explain why bad faith is inherently bad other than merely to make life meaningful, and even this does not seem to answer the question of why a life without bad faith is one that is meaningful. However, Immanuel Kant's moral theory of lying and deception can provide support to illuminate and clarify Sartre's notion of bad faith. This presentation seeks to use Kant's account of lying and deception to answer the question, "Why is bad faith bad?"

## PHILOSOPHY MAJOR CAPSTONE PRESENTATIONS (CONT.)

Nov. 21, 2019

Organized by Dr. Jeremy E. Henkel, associate professor of philosophy

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### **Title: Epistemology of Reduction: Epistemological Emergence**

Student: Dylan Welch '20

Description: Consciousness is often claimed to be a purely physical phenomenon. Under this assumption, it is reduced to physical and biological processes. What would such a reduction look like and what sort of workable information does this provide us regarding our understanding of conscious activity? The reduction of consciousness is a useful constitutive account, but it does not allow for us to predict conscious activity. This paper will focus on Jaegwon Kim's formulation of what it means to reduce something. The application of this reduction to conscious activity will be shown to be unsatisfactory. Consciousness will then be identified as an unpredictable, epistemologically emergent phenomenon.

### **Title: Much Ado About Being**

Student: David Hickman '20

Description: "Does X exist?" is a common question in philosophy. The more fundamental question "What does 'existence' mean?" is ignored because we think that the answer is obvious. I examine two different theories about the nature of existence: ontological monism and ontological pluralism. Monism is the theory that there is only one way to be (to exist) and pluralism is the theory that there is more than one way to be. Pluralism is by far the minority view today. I defend pluralism from the criticisms that it is superfluous and metaphysically liberal.

**Title: Seemings and Rationality**

Student: Jake Haun '20

Description: Often, we take for granted that the world is as we experience it. Our perceptions, memory and intuitions are all things we think can justify our beliefs. Is this warranted? Surely, we all can recall times when we misremembered some event or saw something incorrectly. For many philosophers, this problem can be solved simply by noting that this belief is justified, but to a limited extent. If we are later corrected about some mistake, this justification is defeated. But if we hold to the classical definition of knowledge as justified true belief, does this not make acquiring knowledge too easy? In my presentation, I will argue that our seemings do provide justification, but of a sort which is entirely distinct from knowledge.

# **ANTHROPOLOGY 305: BUILDING SUSTAINABLE COMMUNITIES PRESENTATIONS**

Wednesday, Dec. 4, 2019

Organized by Dr. Alysa M. Handelsman, assistant professor of anthropology  
Sponsored by the Romill Foundation

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**Title: Building Minds and Muscles: Curriculum Development at the Bridge on Green Street (K-5)**

Student: Summer Cook '22

**Title: Sex Education and Reproductive Health in Teen and Young Adult Women in Spartanburg**

Students: Trinity Chapman '21 and Catherine Todd '22

**Title: Spartanburg Opportunity Center - Engaging the Community through a Community Garden**

Student: Ireland McGaughey '20

**Title: Building Social Support: Connecting Immigrants to Available Resources in Spartanburg**

Student: Olivia Free '21

**Title: Intergenerational Conversations: Learning about the Northside Yesterday, Today and Tomorrow**

Student: Kelly Bossert '20

**Title: Be (You) tiful: Empowerment-Based Programming for First-Grade Girls at ARCH**

Students: Ashlyn Fox '21 and Mariana Gonzalez '21

**Title: Access to Special Needs Resources in Spartanburg**

Student: Leila Shearer '20

**Title: PASSION: Character Development and Leadership Building with Teenagers at the Northside Church**

Students: Jaden Cox '21 and Abbey Winslow '20

**Title: Effective Training Tools = Improved Health Outcomes and Information at AccessHealth**

Student: Marisa Barrera '21

**Title: CHEFS Club: Cooking, Nutrition, and Service at the Cleveland Academy of Leadership (4th-5th graders)**

Students: John Bosco Bapoupeleh '20, Kealie Engels '20, Channing Houser '21 and Ashley Stewart '20

**Title: Uplift Outreach Center: Connecting the Pieces**

Student: Brandon Molina '22

**Title: After-School Programming at Victoria Gardens: Assessing Community Needs, Interests, and Assets**

Students: Alex Hill '21, Carlyle O'Herron '20 and Chloe Wanink '20

**Title: Afrodite's Girls: Female Empowerment Workshops with Teenage Girls at the Hope Center**

Student: Parke Faison '21

**Title: The Power of Inclusion: Disability ≠ No Ability**

Students: A.C. Atha '21 and Elena Pulanco '21

**Title: Financial Literacy in Spartanburg: Community-Based Workshops of Learning, Empowerment, and Equity**

Students: Hana Barazi '20 and Myles Price '20

**Title: King's Club: Mentoring and Leadership at Cleveland Academy (5th grade boys)**

Student: Jalen Carter '20

## WOCO SCIENCE

Friday, Dec. 6, 2019

Organized by Dr. Dawn E. McQuiston, associate professor of psychology

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**Title: Applying theories of human skill learning to acquisition in pigeons**

Students: S.J. Grant '20, Margaret Grossman '20, Karson Haigler '20 and Marshall Westbrook '20

Faculty Mentor: Dr. Alliston K. Reid

**Title: Ebola virus secreted glycoprotein (sGP) enhances maturation of dendritic cells**

Student: Emily Moore '21

Faculty Mentor: Dr. Stefanie H. Baker

**Title: Should facility dogs assist adult victims of sexual assault in court?**

Students: Morgan Faries '20, Delacy Louise Rowland '20, Maryelliot Hester '20 and Leila Shearer '20

Faculty Mentor: Dr. Dawn E. McQuiston



**Interested in learning more about capstone projects  
and undergraduate research at Wofford College?**

**Please contact Dr. Ramón Galíñanes Jr., director  
of undergraduate research and post-graduate  
fellowships, at [galinanesr@wofford.edu](mailto:galinanesr@wofford.edu).**

