Celebration '16: A Welcome from the Provost

I want to welcome you to Gettysburg College’s Eighth Annual Colloquium on Undergraduate Research, Creative Activity, and Community Engagement.

Today is truly a cause for celebration as our students present the results of the great work they’ve been engaged in during the past year. Students from across the disciplines are demonstrating over the next two days what’s best about the Gettysburg College experience—intentional collaborations between students and their mentors such that students acquire both knowledge and skills that can be applied to many facets of their future personal and professional lives.

Thus, Celebration provides an excellent opportunity for the entire Gettysburg College community to reflect upon and share all that we have learned from one another over the past academic year. The excitement and energy generated by this event is made possible in no small measure due to those of you who will be attending the sessions.

I hope you enjoy these two days as you choose among the many posters, research papers, plays, films, and musical performances presented by our students.

Sincerely,

Christopher J. Zappe, Ph.D.
Provost
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Friday, April 29th Panels

Spanish 400: Spaces, Politics, and Identities in Contemporary Hispanic Literature
2:30pm – 5:00pm
Glatfelter 101

El ciberespacio y el activismo contra el acoso callejero en España // Cyberspace and activism against street harassment in Spain
Student(s): Amanda Borucki
Mentor(s): Radost Rangelova
Description: Two activist projects use cyberspace to create a space of hope, expression, and freedom against harassment of women in Spain.

Las mujeres de Juárez: la frontera como un espacio de violencia contra la mujer
Student(s): Anna Negron
Mentor(s): Radost Rangelova
Description: Through an analysis of movies and texts set in the border town of Juárez, this paper examines how efforts to globalize the economy (specifically the North American Free Trade Agreement) have converted the border into a space of violence against women.

The construction of the Dominican hyper-masculinity in Junot Díaz's Drown and The Brief Wondrous Life of Oscar Wao
Student(s): Emely Jimenez
Mentor(s): Radost Rangelova
Description: The purpose of this essay is to analyze the construction of the Dominican identity and the hyper-masculinity in the Dominican Diaspora through Drown, a series of short stories, and The Brief and Wondrous Life of Oscar Wao, a novel, by Junot Diaz

Los hombres de las montañas: representaciones de la masculinidad sandinista en los campos militares (The Men of the Mountain: Representations of Sandinista Masculinity in Military Camps)
Student(s): Erin Meachem
Mentor(s): Radost Rangelova
Description: This paper explores how the Sandinista regime used the mountain as a space to develop a new male code of masculinity—one that emphasizes the capacity to survive and change in a relation to the mountain, and that underscores the importance of respect, sincerity, and brotherhood.

El Estado de Sinaloa en la Obra de Élmer Mendoza
Student(s): Jacob Kenny
Mentor(s): Radost Rangelova
Description: This work will analyze the ways in which the police force and narcotraficantes interact in the state of Sinaloa in three novels by Mexican author Élmer Mendoza
Spanish 400: Spaces, Politics, and Identities in Contemporary Spanish Literature
2:30pm – 3:30pm
Glatfelter Hall 101

El ciberespacio y los queer ricans: la construccion de la visibilidad (Cyberspace and Queer Ricans: The Construction of Visibility)
Student(s): Jaamie Monroe
Mentor(s): Radost Rangelova
Description: This paper analyzes cyberspace and its participation in the construction of queer Puerto Rican identity. I will examine two websites and how they aim to promote queer-rican visibility.

La voz femenina en el espacio de la prensa: La identidad nacional española y el colonialismo en los escritos de Carmen de Burgos
Student(s): Julie Day
Mentor(s): Radost Rangelova
Description: This paper addresses from the space of the press and the Spanish feminine perspective the ways in which Carmen de Burgos, the first woman war correspondent to cover the Spanish-Moroccan War of 1909, both challenged and reaffirmed the national Spanish identity created by the censorship of the press, the importance of colonialism through a military perspective, and her own personal beliefs demonstrated in her newspaper articles and literary testimonies.

Las mariposas siguen volando: La dictadura y el espacio de la cárcel en la República Dominicana
Student(s): Kerry Mullen
Mentor(s): Radost Rangelova

Machismo y Matadores en las Plazas de Toros en España
Student(s): Meredith McGann
Mentor(s): Radost Rangelova
Description: This paper analyzes the relationship between traditional gender roles and the identity of a matador a bull fighting ring in Spain. Through a medium of movies and texts, I examine the representation of modern day bullfighting and the construction of women in a masculine role.

ES Capstones: Biodiversity
3:30pm – 4:30pm
Glatfelter Hall 102

The Effect of Imidacloprid on Righting Response in Rusty Crayfish (Orconectes rusticus)
Student(s): Amelia Graham, Marisa Hadley
Mentor(s): Wendy Piniak, Peter Fong
Description: We are observing the effect of a locally used pesticide on physiological behavior in a common species of crawfish to determine the consequences of pesticide in farm runoff.
Assessing Presence of Canis Latrans and Feeding Sequence of Predators in Gettysburg National Military Park

**Student(s):** Benjamin Langey, Travis Andrews, Victoria Campbell

**Mentor(s):** Wendy Piniak

**Description:** Determine whether C. latrans is present at the two suspected sites in the Gettysburg National Military Park. Determine if a hierarchy of access occurs around a food source with larger carnivores feeding first, and then granting smaller carnivores subsequent access.

Environmental Factors Affecting Anuran Diversity and Distribution in Gettysburg National Military Park

**Student(s):** Rose Fogliano, Elizabeth Donovan

**Mentor(s):** Wendy Piniak

**Description:** The purpose of this project is to assess anuran species in Gettysburg National Military Park via passive recordings and to determine which natural and anthropogenic habitat characteristics correlate with species richness.

Percent-time Audibility of Natural and Anthropogenic Noise at Gettysburg National Military Park

**Student(s):** Samuel Goodell, Stephen Lin

**Mentor(s):** Wendy Piniak

**Description:** Identify the dominant ambience of human soundscapes in Gettysburg National Military Park.

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**Friday, April 29th Theater**

**Robin Hood: There Will Be Tights (A Medieval Drama Production)**

4:00pm – 5:00pm

Breidenbaugh (Outside)

**Medieval Drama presents: Robin Hood & Other Outlaw Tales**

**Student(s):** Helen P. Alev, John X. Borde, Alexandra C. Calder, Palmer A. Calgrias, Nicholas B. Cesare, Margaret R. Connolly, Megan L. DelRossi, Alessandra L. DeMartino, Jake A. Farias, Anika N. Jensen, Eva Karkuff, Craig A. Lindsley, Lindsay A. Maier, Erin M. Meachem, Nicholas O’Kane, Nicholas B. Papoutsis, Nicole H. Petrocchi, Isabella Rosedietcher, Blaney M. Rotanz, Peter K. Schwerin, Colin A. Scotch, Ben S. Sherbacow, Daniella M. Snyder, Meredith R. Tombs

**Mentor(s):** Christopher Fee

**Description:** Through this production, we plan to understand the original spirit of the pageants and effectively translate that for a modern audience in a lively manner.
Friday, April 29th Posters

Art and Art History

New World, Old Markets: Ceramic Techniques and Emerging Identity in Early Colonial Mexico

Student(s): Rebecca Duffy
Mentor(s): Felicia Else
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Biology

A Functional Analysis of the 5' Regulatory Region of the Aspergillus nidulans snxA Inhibitor of Cell Division.

Student(s): Matthew Dunworth
Mentor(s): Steven James
Description: We are studying the mechanism of epigenetic control of the Aspergillus nidulans snxA gene.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

A trans-acting regulator on Chromosome I inhibits the expression of snxAHrb1 in Aspergillus nidulans

Student(s): Colleen Kazokas, Dane Sethre-Hofstad
Mentor(s): Steven James
Description: To identify the novel gene responsible for epigenetic regulation of the snxA gene in Aspergillus nidulans.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

An Extensive Isolation and Identification of Microbiota Present on Sebaceous Skin and its Significance to Human Health

Student(s): Connor McLaughlin
Mentor(s): Jennifer Powell
Description: The statement of purpose for this experiment was to isolate, identify, and classify sebaceous skin microflora in order to better understand them and their role in the both the human innate and adaptive immune system.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Annotation Analysis of Phage 1

Student(s): Benjamin Skinner, Michael Karchner
Mentor(s): Nikki Shariat
Description: Genome analysis of Phage 1, an Erwinia amylovora bacteriophage isolated
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Characterization and Identification of Unknown Skin Microbes

**Student(s):** Theresa Menna  
**Mentor(s):** Zakiya Whatley  
**Description:** The human microbiome plays a critical role in our health and development, and imbalances in this diverse ecosystem are linked to many different types of diseases. In this study, samples of the skin microbiome were cultured, and three strains were isolated and evaluated using various techniques in microbiology.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Code Breakers: Examining Phage Codon Usage

**Student(s):** Cameron Thompson, Huilin Xu, Naufa Amirani  
**Mentor(s):** Nikki Shariat  
**Description:** What is the codon usage between a novel Erwinia amylovora phage and highly similar phage  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Dichloroacetate inhibits proliferation and aerobic glycolysis in B16-F10 mouse melanoma cells

**Student(s):** Mark Mednikov  
**Mentor(s):** Ralph Sorensen  
**Description:** To test the effectiveness of dichloroacetate, a known Pyruvate Dehydrogenase Kinase inhibitor, as a method of slowing down the proliferation of cancerous cells as well as forcing them from aerobic glycolysis towards oxidative phosphorylation as their main energy source.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Effect of Chronic Risperidone Administration on Dopamine Type 2 Receptor Expression, Serotonin Type 2A Receptor Expression, and Anxiety Behavior in Fischer 344 and Sprague-Dawley Rats

**Student(s):** Lana McDowell  
**Mentor(s):** James Kittelberger, Stephen Siviy  
**Description:** My goal was to investigate the effect of risperidone, an atypical antipsychotic, on a high-anxiety strain (Fischer 344) of rat as compared to a normal-anxiety strain (SD). The Fischer 344 exhibits behavioral characteristics that resemble some symptoms of autism, so I was curious about how they may be affected when treated with risperidone, the first FDA approved treatment for autism.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Effects of Thermal Stress on Nerite Grazing Activity

**Student(s):** Emily Jankowski  
**Mentor(s):** Istvan Urcuyo  
**Description:** The objective of this study is to assess the effects of thermal stress on the grazing activity of submersed marine nerites.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Identification and characterization of DPM-II Unknown Bacteria Isolated from the interdigital web space of the fourth and fifth fingers of the right hand

**Student(s):** Daniel Moorhead  
**Mentor(s):** Jennifer Powell  
**Description:** Identifying a possibly novel strain of bacteria, taken from the epidermis of a healthy adult male  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Identification of an unknown gene that down regulates expression of a mRNA binding protein in Aspergillus nidulans.

**Student(s):** Kaelea Composto, Kyle Woodley  
**Mentor(s):** Steven James  
**Description:** To determine the location of an epigenetic regulator in Aspergillus nidulans  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Identification of trans-acting regulator responsible for epigenetic control of the snxA gene in Aspergillus nidulans

**Student(s):** Anna Burns, Rebecca King  
**Mentor(s):** Steven James  
**Description:** Identification of the gene responsible for epigenetic control of snxA gene  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Isolation and characterization of ACS-1 acquired from the posterior ear of a healthy 21-year-old female

**Student(s):** Alexandra Sturgis  
**Mentor(s):** Jennifer Powell  
**Description:** The aim of this project was the isolation and characterization of a novel strain of bacteria to add to the current knowledge on healthy human skin microbiota  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Isolation and characterization of ANSE, a novel species from the right antecubital fossa of a healthy female

**Student(s):** Ashley Sauer  
**Mentor(s):** Jennifer Powell  
**Description:** To characterize and identify the phenotypic and genotypic features of ANSE, a novel strain from the right antecubital fossa of a healthy female, in order to determine phylogenetic relatives.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Isolation and Characterization of Bacterial Strains from the Skin Microflora

**Student(s):** Amanda Finck  
**Mentor(s):** Jennifer Powell  
**Description:** To identify and characterize the microbial composition, bacteria were isolated from the supra alar crease/nares sill and the orbital portion of the eyelid of an immunocompetent 20-year-old female. These isolates were then characterized and identified using 16s rDNA sequencing.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

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Isolation and Characterization of Human Microflora from Underneath the Fingernail

**Student(s):** Caroline Moyer  
**Mentor(s):** Jennifer Powell  
**Description:** To determine the identity of a single bacterial colony of microflora from underneath the fingernail to help understand what kind of microorganisms make up a specific individual's microflora.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

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Isolation of 3 Microbes from the Skin Microbiome

**Student(s):** Mackenzie Duncan  
**Mentor(s):** Zakiya Whatley  
**Description:** Wanted to learn more about microbial diversity in the skin microbiome  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

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Mapping brain areas activated in naturally vocalizing midshipman fish (Porichthys notatus)

**Student(s):** Alexandra Siegel  
**Mentor(s):** James Kittelberger  
**Description:** Midshipman is a highly vocal fish species used to study vertebrate vocal-motor systems. Brain circuits underlying vocal production have been studied through stimulation experiments and anatomical tracing. The goal of this study is to confirm that the previously identified vocal areas are indeed active during natural humming. Secondly, we aimed to confirm the specificity of the pS6 antibody for the phosphorylated form of the S6 protein, which is the marker being used to map vocally-active areas.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

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Mutations in the nsr1/nucleolin RNA-binding protein suppress defects in the snxAHrb1 RNA-binding protein in Aspergillus nidulans.

**Student(s):** Breanna Titchen  
**Mentor(s):** Steven James  
**Description:** In Aspergillus nidulans, DNA damage responses and epigenetic regulation are perturbed by mutations in the snxA gene. We are using genetic and molecular approaches to unravel the role of snxA in these two fundamental processes.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Observation of Structural Genes from GCPhage7

Student(s): Kaitlyn Budney, Leidy Tovar Almanza  
Mentor(s): Nikki Shariat  
Description: The goal was to identify some genes found in GCPhage7 that infect bacteria other than E. amylovora.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

One And the Same: Discovering the Truth about Conserved Erwinia amylovora Phage Genes

Student(s): Celine Erkey, Dorothy Vosik, Vanessa Case  
Mentor(s): Nikki Shariat  
Description: Are there conserved genes in Erwinia amylovora phage genomes?  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Oxidative species trigger the activity of G-protein coupled receptor FSHR-1 during infection.

Student(s): Jennifer Giannini  
Mentor(s): Jennifer Powell  
Description: In C. elegans, detoxification genes that either counteract reactive oxygen species (ROS) originating from a pathogen or prevent self-harm from host-produced ROS are induced. Determining the role of G-protein coupled receptor FSHR-1 in the induction of these detoxification genes will help elucidate how FSHR-1 functions in the innate immune response of C. elegans.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Phage Genomes: Does Size Really Matter?

Student(s): Brittany Maronna, Jacob Marogi, Rebecca Callaghan  
Mentor(s): Nikki Shariat  
Description: From a genomic perspective, is there a difference between Erwinia amylovora specific phage with a large and a normal genome size group?  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Slippery Sequences: Occurrences in GCPhage5

Student(s): Caleb Hellman, Sarah DiPietro  
Mentor(s): Nikki Shariat  
Description: How to locate and identify slippery sequences throughout a phage genome.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Synergistic Biofilm Partners: Microbacterium maritypicum and Chryseobacterium hispalense

**Student(s):** Amanda Finck, Nene Sy, Sarah DiDomenico  
**Mentor(s):** Zakiya Whatley  
**Description:** The purpose of this project was to observe the synergistic biofilm formation in the preferential partnership of Microbacterium maritypicum and Chryseobacterium hispalense.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Testing nitrogen level and glutamine starvation on transporter gene expression in the cultured green algae using qPCR.

**Student(s):** Elizabeth Hill, Huanjia Zhang  
**Mentor(s):** Ryan Kerney  
**Description:** To quantify the transporter gene expression in green algae in response to nitrogen level and glutamine starvation.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The connection between the G-Protein Coupled Receptor FSHR-1 and regulators of oxidative stress

**Student(s):** Rebecca Callaghan  
**Mentor(s):** Jennifer Powell  
**Description:** Finding the connection between the G-Protein coupled receptor, FSHR-1, and master regulator of the oxidative stress response, SKN-1, and how they contribute to the innate immune system in c. elegans.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Diverse Human Microbiota

**Student(s):** Loren Keith  
**Mentor(s):** Zakiya Whatley  
**Description:** Identifying the species of bacteria isolated from human microbiota based on a series of tests.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The effects of nutrition on primary and secondary sexual characters of the tortoise beetle Acromis sparsa

**Student(s):** Kalli Qutub  
**Mentor(s):** Veronique Delesalle  
**Description:** The purpose of this project was to determine how nutrition during development affect the allocation of those resources, and if so, where do individuals of this species tend to allot those resources?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
The Isolation and Characterization of Human Skin Microbiota from an Adult Male

Student(s): Fergan Imbert
Mentor(s): Jennifer Powell
Description: Characterizing the microbiota that inhabits different sites on the human body.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

The isolation, characterization, and identification of a microbe collected from the scalp

Student(s): Alyssa Floyd
Mentor(s): Zakiya Whatley
Description: The purpose of this project was to isolate micro-organisms from three sites of the skin microbiome, elucidate their characteristics, and successfully identify the DNA sequence and species of one of the bacteria.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

The isolation, identification, and characterization of microbes isolated from the scalp

Student(s): Emily Turner
Mentor(s): Zakiya Whatley
Description: The purpose of this study was to isolate microbes from a specific area of human microflora and identify the bacteria based on a series of tests. These tests were used in conjunction with genetics based examinations to identify and characterize the isolated bacteria.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

The relationship between SKN-1 and FSHR-1 in the C. elegans Innate Immune Response

Student(s): Zoe Yeoh
Mentor(s): Jennifer Powell
Description: We would like to research the connections between FSHR-1 and SKN-1, if any, and their combined effects on the oxidative stress response in C. elegans to reach a better understanding about the innate immune system.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

The role of juvenile play in the development of adult social anxiety across two rat strains

Student(s): Rose Fogliano
Mentor(s): Kazuo Hiraizumi, Stephen Siviy
Description: The aim of this study is to determine whether genetically based strain differences between Fischer-344 and Sprague-Dawley rats mediate adult social anxiety directly or indirectly through differences in juvenile play that affect the adult phenotype.
Time/Location: 4:30pm-6:15pm, College Union Ballroom
The search for a trans-acting epigenetic regulator of the snxA mRNA binding protein in Aspergillus nidulans.

**Student(s):** Morgan Brown, Tiffany Hill  
**Mentor(s):** Steven James  
**Description:** To analyze the epigenetic inheritance in the mutation of snxA by isolating lsm4 and cdc4 in Aspergillus nidulans.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

### Center for Public Service

**Music, Ritual, and the Struggle for Haitian and Afro-Dominican Rights in the Dominican Republic**

**Student(s):** Annette Aguilera-Gonzalez, Bridget Verrekia, Cara Stine, Huyen Do, Ivy-Rose Kramer, Jennifer Flores, Kailey Wilk, Michael Fitch, Nicholas Sontag, Raven Waters, Yifei Zhang  
**Mentor(s):** Paul Austerlitz  
**Description:** What events have helped perpetuate the tensions between the Dominican Republic and Haiti? What organizations are helping alleviate these tensions? How has music played a role in this social justice movement?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

### Chemistry

**Convergent Synthesis of a Photocleavable Linker for the Purification of GlcNAcylated Proteins**

**Student(s):** Tyler Sadka  
**Mentor(s):** Timothy Funk  
**Description:** The purpose of my project is to design and synthesize an organic linker that will be used in a new way to isolate proteins modified with the chemical group Glc-NAc.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Examining KIT, EDNRB, MITF, PMEL17, MLANA Genes to Determine the Genetic Basis of Equine Deafness**

**Student(s):** Alecia Achimovich  
**Mentor(s):** Koren Lipsett  
**Description:** Determine the genetic link between hypopigmentation and deafness in a pedigree Spanish mustangs  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Exploring Oxidative Cyclizations of Diols to Lactones Using Iron Catalysts**

**Student(s):** Rowan Meador  
**Mentor(s):** Timothy Funk  
**Description:** Investigating the use of iron catalysts as a viable option to synthesize lactones from diols.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Kinetic examination of the impact of cyclopentadienone substitution for a series of iron catalysts

**Student(s):** Andrew Mahoney, Kathryn Fodale  
**Mentor(s):** Timothy Funk  
**Description:** To look at iron as a viable catalyst. To see how changing the structure of the cyclopentadienone affects the activity of reaction.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Material properties of human skin lipids

**Student(s):** Michael Counihan  
**Mentor(s):** Shelli Frey  
**Description:** This research investigates the material properties of the lipids in the stratum corneum, the outermost layer of human skin.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Polystyrene Nanoparticles Alter the Structure and Stability of Model Cell Membranes

**Student(s):** David Van Doren  
**Mentor(s):** Shelli Frey  
**Description:** Nanoparticles have been used in the development of countless products available today. Despite the amount of attention and research they have received, their interactions with biological systems are still poorly understood. This project aims to determine nanoparticle properties that are important for their interactions with lipid membranes and their contribution to a nanoparticle’s mechanism of interaction with lipid molecules.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Synthesis of Porphyrins with Appended Clathrochelates

**Student(s):** Abby Flanagan-Frankl  
**Mentor(s):** Joseph Grzybowski  
**Description:** Study the properties of porphyrins with appended clathrochelates to learn more about their spectroscopic properties.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Computer Science**

Application of Artificial Intelligence techniques to the board game Quoridor

**Student(s):** Zuozhi Yang  
**Mentor(s):** Todd Neller  
**Description:** Experimentally compare different heuristic search algorithms on board game Quoridor  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Hex: Discovering Patterns in Monte Carlo Gameplay

Student(s): Joshua Wagner  
Mentor(s): Todd Neller  
Description: The number of games and exploration factor can be varied in a Monte Carlo program with a RAVE all-moves-as-first heuristic. What effects do these values have on the program’s ability?  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Monte Carlo Analysis of Strategies for the President Card Game

Student(s): Erik Wendt  
Mentor(s): Todd Neller  
Description: To gain insight to optimal performance for the President card game using Monte Carlo simulation.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Education

“A Wolf by the Ears”: Using Themes of Slavery and Freedom from the Life of Thomas Jefferson in the History Classroom

Student(s): Alexandria Andrioli, Kylee Davis, Rebecca Duffy  
Mentor(s): David Powell  
Description: This project will consider the complexities of Thomas Jefferson as both a pioneer of freedom as well as a Virginian plantation slave owner as interpreted by the Thomas Jefferson Foundation at Monticello. Furthermore, this work considers the challenges and benefits of presenting a complex narrative for Jefferson in the classroom.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Thomas Jefferson: Different Audience, Different Portrayal

Student(s): Jennifer Simone, Senait Weldemariam, Sophia Vayansky  
Mentor(s): David Powell  
Description: As students who have visited Thomas Jefferson’s home Monticello and have also taken college courses which discuss him, we have noticed a great difference in the way he is portrayed at public history sites in comparison to classrooms. The differences—for example, the way slavery is emphasized, the extent to which the contradictory aspects of his political personality are addressed, and the room left for interpretation—vary substantially depending on which environment you are in. We have recognized that a reason for these deviations is the context in which the information is presented—and, more specifically, the people who are being informed. Public history emphasizes fast-paced explanations by a single tour guide while classroom learning often involves many students participating in a discussion, allowing for more perspectives to flourish. We plan to explore these differences and the impact they have on the receivers of the information, as well as implications for teachers and tour guides in both settings.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Environmental Studies

A Quantitative Analysis of Cirques on Tröllaskagi, Northern Iceland

Student(s): Rachael Grube
Mentor(s): Sarah Principato
Description: How is ELA related to factors such as distance from cirque to coast and latitude? How do the properties of cirques on Iceland similar and different? How do Icelandic cirques compare to cirques worldwide?
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Carbon, Cookstoves, and Kitchens: Case Studies of Fuelwood Use and the Potential for Ethanol Substitutability in Rural India, Vietnam, and Tanzania

Student(s): Quinn Heist
Mentor(s): Monica Ogra
Description: The poster explores questions of cultural feasibility and the related roles of gender/class/ethnicity dynamics within a community, cooking and fuel preferences of stove users, and religious considerations related to non-consumptive alcohol use when implementing ethanol fuel stoves in the context of three case studies conducted in India, Vietnam, and Tanzania.
Time/Location: 4:30pm-6:15pm, College Union Ballroom


Student(s): Jolina Kenney
Mentor(s): Randall Wilson
Description: Crafting a Campus Sustainability Action Plan: A Grassroots Approach
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Field-Testing of Unmanned Aerial Vehicles to Monitor Avian Abundance Using Audio Recordings

Student(s): Megan Zagorski
Mentor(s): Andrew Wilson
Description: We aimed to determine whether the presence of an Unmanned Aerial Vehicle (UAV) had a significant effect on bird behavior (i.e. song output) and assess whether bird abundance estimates obtained from the UAV’s recording were significantly different from those obtained from standard terrestrial point counts.
Time/Location: 4:30pm-6:15pm, College Union Ballroom


Student(s): Kelly Collins
Mentor(s) Rutherford Platt
Description: How does fracking in Pennsylvania impact state resources, the viewshed, and the soundshed?
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Growth rates of green sea turtles (Chelonia mydas) in Punta Abreojos, Baja California Sur, Mexico

Student(s): Majorie Howard
Mentor(s): Wendy Piniak
Description: We aim to calculate growth rates for green sea turtles at Punta Abreojos, a foraging area off the coast of Baja California, Mexico. The rates calculated in this study will be compared with rates from previous studies in the Eastern Pacific and the Caribbean to gain insights on population status and to develop management strategies for conservation in the future.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Land Cover Changes in the Surrounding Area of Jaipur, India from 1994 to 2015

Student(s): Jolina Kenney, Maura Conley
Mentor(s): Rutherford Platt
Description: How has landcover in the Rajasthan area changed from 1994 to 2015 as development has occurred the population has increased?
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Orientation and Behavioral Responses of Hatchling Loggerhead Sea Turtles, Caretta caretta, to Environmental Acoustic Cues

Student(s): Bethany Holtz
Mentor(s): Wendy Piniak
Time/Location: 4:30pm-6:15pm, College Union Ballroom

The Greening and Browning of the San Juan Mountains of Colorado: Trend Analysis of Forest Vegetation using Landsat Imagery

Student(s): Katherine Cavanaugh
Mentor(s): Rutherford Platt
Description: Has there been long term 'greening' or 'browning' of forest vegetation in the Colorado San Juan Mountain Range from 1984-2014? To what extent is greening/browning associated with disturbances (e.g. forest treatments and fire) versus environmental conditions (e.g. vegetation type and changes in climate)?
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Tiny Houses: The Next Big Thing?

Student(s): Maura Conley, Siobhan McIlhoney, Kylie McBride
Mentor(s): Randall Wilson
Description: Are the claims put forward by the tiny house movement reflected in the media?
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Health Sciences

Acute exercise improves short-term memory through psychological and biological influences

Student(s): Adam Stevens  
Mentor(s): Micholas Mitchell  
Description: Identify mental and physical variables associated with memory that change following a single bout of exercise.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Self assessment of hydration status using a color-coded urinal sticker in college aged males.

Student(s): Lee Friedman, Nicole Beyer  
Mentor(s): Dan Drury  
Description: Will use of color-coded urinal sticker increase the accuracy of self-identified dehydration diagnosis by assessing urine color?  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

The effects of creatine supplementation on hepatic lactate production following acute fructose ingestion

Student(s): Adam Stevens, Alexandra Sturgis  
Mentor(s): Eric Noreen  
Description: To determine the effects of Cr supplementation on blood lactate response to acute fructose ingestion.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Tissue-Specific and Concurrent Circadian Rhythm of SIRT3 and Nicotinamide phosphoribosyltransferase Expression in Liver and Skeletal Muscle

Student(s): Amanda Loehr, Normonique Dyer  
Mentor(s): Josef Brandauer  
Description: The purpose of this research is to investigate how mitochondrial content and metabolism is regulated over the 24-hour circadian cycle and how disruptions in the circadian rhythm may affect these processes.  
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Interdisciplinary Studies

Generational Comparisons in Social Media and Traditional Media Marketing

Student(s): Katherine Belhumeur  
Mentor(s): Brian Meier, Duane Bernard  
Description: What are the differences between traditional media marketing and new media or social media marketing and do these trends seem to be generationally specific?  
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Mathematics

How Now Brown Tau: Comparing the Restricted Critical Number and Weakly Sum Free Sets

Student(s): Samuel Edwards
Mentor(s): Bela Bajnok
Description: This presentation compares the restricted critical number to the maximum size of a weakly zero-sum-free set in a finite abelian group.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Organization and Management Studies

Are Levels of State Suspicion Susceptible to the Group Polarization Effect?: An Initial Experiment

Student(s): Kelly Kalis, Mary Westermann
Mentor(s): Heather Odle-Dusseau, Philip Bobko
Description: The current study aimed to link the group polarization effect to the notion of suspicion, predicting that an individual’s suspicion will increase as a result of group discussion.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Physics

Ion influence on polymer coating on the surface of gold nanospheres.

Student(s): Celina Harris, Savannah Miller
Mentor(s): Kurt Andresen, Lucas Thompson
Description: The purpose of this project is to investigate the effects of ion saturation on the polymeric coating of spherical gold nanoparticles.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Multiple scattering caused by detectors upstream of the target and the fraction of primary particles that hit the target

Student(s): Heather Garland
Mentor(s): Sharon Stephenson
Description: What is the multiple scattering caused by detectors upstream of the target and fraction of primary particles hitting the target for the MUSE simulation as of July 2015?
Time/Location: 4:30pm-6:15pm, College Union Ballroom
**The Electrostatics of Nucleosome Core Particle Compaction**

**Student(s):** Abby Bull  
**Mentor(s):** Kurt Andresen  
**Description:** We conducted experiments to determine the number of Mg2+ ions around each NCP when it was in the condensed form to more fully understand electrostatically-induced NCP compaction  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Visual Perturbations and the Collective Dynamics of Fish Schools**

**Student(s):** Julia Giannini  
**Mentor(s):** James Puckett  
**Description:** The inherent complexity of collective animal systems can be simplified through physical experimentation and modeling. We utilize imaging techniques and visual stimuli that provide us with a unique perspective on this issue.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Political Science**

The manifestation of foreign policy powers in the U.S. federal legislative and executive branches.

**Student(s):** Jacqueline Beckwith  
**Mentor(s):** Shirley Warshaw  
**Description:** What is the extent of power held by the federal legislature in the realm of foreign policy, and where does that power derive from? How are those powers balanced by those held by the executive branch?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Psychology**

“Thinking on Your Feet” vs. “Thinking Outside the Box:” The Effect of Metaphors on Cognitive Tendencies

**Student(s):** Katrina Kunnapas, Olga Nynas, Valerie Nigg  
**Mentor(s):** Rebecca Fincher-Kiefer  
**Description:** The metaphor ‘thinking on your feet,’ suggests quick and accurate thinking. The aim of this study was to examine whether the physical act of standing facilitated quick and accurate thinking.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Assessing Parent-Child Disconnect in Cyberbullying Behavior

**Student(s):** Miranda Fennel  
**Mentor(s):** Christopher Barlett  
**Description:** The current project asks the question of: What can parents do help reduce cyberbullying/cyber-victimization? To answer this question, we first needed to determine parent’s knowledge in regards to what their children do and experience online  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Blue Strawberries and Orange Limes: How Color Congruency and Saturation Affect Flavor Perception

**Student(s):** Alvin Stewart, Matthew Morrow  
**Mentor(s):** Daniel McCall  
**Description:** The aim of this study is to discover the effects of congruent and incongruent colors as well as saturation on flavor perception.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Breaking the Link between Provocation and Aggression: The Role of Mitigating Information

**Student(s):** Madelaine Trotter, Samantha Grom, Stephen Tesoro  
**Mentor(s):** Christopher Barlett  
**Description:** The purpose of the experiment was to examine how mitigating information and provocations alter aggressive behaviors. The current experiment examined how mitigating information, delivered after a provocation, can be used to reduce aggression.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Children’s Responses to Inequality: Perpetuation or Rectification

**Student(s):** Bowen Yang, Katherine Aloisi  
**Mentor(s):** Kathleen Cain  
**Description:** Our research aimed to answer the question of whether children are inclined to perpetuate or rectify the inequality that they witness. We also sought to examine factors that influence such responses to inequality.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Effects of delayed methamphetamine and cat odor on rat anxiety

**Student(s):** Anna Stewart, Margaret Gregg, Taylor Rudgers  
**Mentor(s):** Stephen Siviy  
**Description:** To determine if delayed methamphetamine and cat odor administration effects the amount of times and duration the rat spends in the open arms of an elevated plus maze.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Effects of Effort and Attention on Consumption and Flavor Perception

Student(s): Cayla Kusnierz, Tess Anderson
Mentor(s): Daniel McCall
Description: The purpose of this experiment is to see whether effort and attention influences consumption and flavor perception.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Effects of Handling and Isolation on Anxiety Behavior in Rats

Student(s): Caitlin Sharp, Miranda Fennel, Sarah Van De Weert
Mentor(s): Stephen Siviy
Description: We aim to examine the potential interaction between handling and isolation on anxiety behavior in Sprague-Dawley rats.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Effects of morphine and isolation on the production of 50kHz vocalizations in response to tickling in juvenile rats

Student(s): Hannah Collins, Meagan Lupolt
Mentor(s): Stephen Siviy
Description: How does the opioid agonist morphine and isolation housing of rats affect the reward systems associated with positive reward states, such as those produced by tickling of rats? How will these variables affect the 50kHz vocalizations produced by rats during tickling?
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Effects of Tactile Experience and Posture on Gender Judgments

Student(s): Courtney Morrow, Kimberly Ryan
Mentor(s): Rebecca Fincher-Kiefer
Description: The present research seeks to investigate the effect of both tactile experience and posture on judgments of ambiguously-gendered faces.
Time/Location: 4:30pm-6:15pm, College Union Ballroom

Effects of tDCS Stimulation of the Parietal Lobe on Mental Rotation and Rotated-Object Recognition

Student(s): Hamasa Ebadi
Mentor(s): Kevin Wilson
Description: In the present study, we test whether tDCS stimulation of the parietal lobe affects mental rotation (MR) and rotated object recognition (ROR) in a similar fashion.
Time/Location: 4:30pm-6:15pm, College Union Ballroom
Effects of the Endocannabinoid System and Social Buffering on Cat Odor Induced Anxiety

**Student(s):** Abby Flanagan-Frankl, Graham Homan, Stephen Tesoro  
**Mentor(s):** Stephen Siviy  
**Description:** Are endocannabinoids effective in reducing anxiety induced by cat odor? Does social buffering reduce the anxiogenic effects of cat odor?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Effects of the Mental Number Line on Distance Perception

**Student(s):** Lea Candelmo, Madelaine Trotter  
**Mentor(s):** Rebecca Fincher-Kiefer  
**Description:** The purpose of this experiment was to determine if the Mental Number Line theory could be elicited through manipulating participants' posture by leaning right or left.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Embodiment of Space-Time Metaphors and Task Interface

**Student(s):** Colin Mancini, Kira Mason  
**Mentor(s):** Rebecca Fincher-Kiefer  
**Description:** The current research examined embodied time metaphors (front/future and back/past) using a cognitive interference paradigm.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Gender Stereotypes in Preschoolers

**Student(s):** Jacqueline Engel, Rebecca Johnson, Sean Beirne  
**Mentor(s):** Kathleen Cain  
**Description:** We are researching if children will make associations about gender-stereotypical roles based on the gender pronouns they hear in a story. Specifically, we hypothesize if children hear a story in which male pronouns are used in a story about a character performing both stereotypical male and female roles, they will be more likely to associate those roles with a male.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Hand Ruler: The Effect of Hand Constrictions on Object Size Estimations

**Student(s):** Eric Osorio, Kelsey Poholsky  
**Mentor(s):** Rebecca Fincher-Kiefer  
**Description:** This study examined the effect of hand constriction on target object size estimations when object's grasptability and familiarity were manipulated.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Here's The Scoop: The effect of bowl type and expected quality on ice-cream flavor perception

**Student(s):** Aubrey Silverman, David Trombetta  
**Mentor(s):** Dan McCall  
**Description:** Does expected bowl quality and ice cream quality affect flavor attention and perception?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Immersion Project Participation and Attitudes toward Social Issues

**Student(s):** Amy Violante, Bowen Yang, Nora Tidey  
**Mentor(s):** Sahana Mukherjee  
**Description:** This research examines the effect that participating in a CPS Immersion Project has on perceptions of racism, sexism, and classism and willingness to participate in other activities related to social justice  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Isolationism and Interventionism: Does the priming of one affect resource allocation?

**Student(s):** David Casciola, Declan Sullivan, Joshua Rubinstein, Richard Cornish  
**Mentor(s):** Sahana Mukherjee  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Natural vs. Synthetic Drug Bias

**Student(s):** Eric Osorio  
**Mentor(s):** Brian Meier  
**Description:** This project is focused on analyzing potential moderators of an observed “natural” drug bias present in human drug choices  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Predicting Cyberbullying: The Moderating Influence of Age

**Student(s):** Kristina Chamberlin  
**Mentor(s):** Christopher Barlett  
**Description:** An exploration of age as a moderator of the Barlett & Gentile Cyberbullying Model in samples of early and late adolescents  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Race, gender, and hiring decisions: The intersectionality of resume reading

**Student(s):** Colin Mancini  
**Mentor(s):** Brian Meier, Christopher Barlett  
**Description:** Examine how race and gender interact in order to influence resume reading and hiring decisions.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
Shaped expectations: Can shape influence chocolate perception?

**Student(s):** Ji Na Yang, Marianelly Rios  
**Mentor(s):** Daniel McCall  
**Description:** The study attempts to investigate if the shapes of chocolate could influence the chocolateyness of chocolate as well as other sensory attributes like pleasantness.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effect of Color and Sport Type on Child Interest

**Student(s):** Elizabeth Quinn, Emily Wakschal  
**Mentor(s):** Kathleen Cain  
**Description:** The goal of our study is to examine the effect of sport item type (stereotypically masculine, feminine, or neutral) and color (pink or blue) on child interest.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effect of Environmental Enrichment and Nicotine on Anxiety in Sprague-Dawley Rats

**Student(s):** Emily Foley, Karly Manchin, Meghan Hisgen  
**Mentor(s):** Stephen Siviy  
**Description:** What are the effects of both environmental enrichment and nicotine on anxiety in a plus maze?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effect of Historical Narratives and Flag Type

**Student(s):** Alexandra Casella, Amy Violante, Maher Bigley, Marike Sevigny-Morrissey  
**Mentor(s):** Sahana Mukherjee  
**Description:** This research will examine the effect of mainstream or marginalized narratives and Confederate or American flag on temporal distancing, patriotism, perception of racism, and national identity.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effect of Oxytocin in the Central Amygdala on Play Behavior in Rats

**Student(s):** Samantha Eck  
**Mentor(s):** Stephen Siviy  
**Description:** Can infusion of oxytocin into the central amygdala of a young rat increase play behaviors?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
The Effect of Self-Construal and Framing of a Transgression on Intergroup Relations

**Student(s):** Claire Alexander  
**Mentor(s):** Sahana Mukherjee  
**Description:** This project's goal is to examine whether the manipulation of Gettysburg College student's self construal (independent or interdependent) and membership as either a victim or perpetrator of a transgression will have an impact on ratings of efficacy, action (intention), collective action, collective anger (for participants in the victim condition only), and collective guilt (for participants in the perpetrator condition only).  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effects of Color and Gender Roles on Playtime

**Student(s):** Laura Kowalik, Samantha Sterbenz  
**Mentor(s):** Kathleen Cain  
**Description:** To examine how children's learning of gender influences their choices of toys, as mediated by color.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effects of Gender and Self Construal on Perception of Racism

**Student(s):** Anne Schoenfeld, Lauren Schapiro, William Thomas  
**Mentor(s):** Sahana Mukherjee  
**Description:** We are looking into the idea of if ones Gender (male or female) and their self construal (interdependence or independence) on how they perceive racism.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Effects of the Mental Number Line on Distance Perception

**Student(s):** Lea Candelmo  
**Mentor(s):** Rebecca Fincher-Kiefer  
**Description:** The purpose of this experiment was to determine if the Mental Number Line Theory could be elicited through manipulating participants' posture by leaning right or left.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Impact of Inflated Praise on Preschool Children with High and Low Self Esteem

**Student(s):** Kathleen Allyn, Kelly Kalis  
**Mentor(s):** Kathleen Cain  
**Description:** Does the effect of inflated praise impact preschool children's challenge seeking behaviors differently depending upon their level of self-esteem  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
The Peacock Effect: The Influence of the Opposite Sex on Aggressive Behavior

**Student(s):** Kira Mason  
**Mentor(s):** Christopher Barlett  
**Description:** The current research investigated how the presence of a member of the opposite sex (attractive or non-attractive) interacts with participant sex and provocation to influence aggressive intentions.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

The Role of Mindfulness and Effort on the Perception and Consumption of Chocolate

**Student(s):** Angelina Zulick, Kimberly Engelhart, Samantha Grom  
**Mentor(s):** Daniel McCall  
**Description:** The purpose of this experiment was to examine how effort and mindfulness play a role in the eating habits of students.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Theory of Mind and Emotional Comprehension in Preschool Aged Children

**Student(s):** Emily Lunardi, Nicole Garafola  
**Mentor(s):** Kathleen Cain  
**Description:** We hypothesize that children who have theory of mind will be more likely to correctly identify experimenter’s emotion and its cause, than children who do not have theory of mind.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Unmasking Penn Face: Measuring the Phenomenon and Its Relationship to Other Personality Constructs

**Student(s):** Meagan Lupolt  
**Mentor(s):** Kathy Berenson  
**Description:** This project aimed to develop a valid and reliable scale that accurately measures students’ identifications with and susceptibility to the phenomenon known as Penn Face by 1) pilot testing various scale drafts and 2) evaluating the various personality traits that are associated with this condition.  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

**Sociology**

Examining Barrio Chino in Buenos Aires, Argentina

**Student(s):** Cheery Huang  
**Mentor(s):** VoonChin Phua  
**Description:** What is the Chinese Diaspora?  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom
**Saturday, April 30th Panels**

**German Studies Capstones I**  
9:00am – 10:15am  
Breidenbaugh Hall 209

Minority of the Deutschum? The Creation of the Sudeten German Identity, 1918-1938  
**Student(s):** Jesse Siegel  
**Mentor(s):** Kerry Wallach  
**Description:** How did the Sudeten Germans create a unique identity as a German ethnic minority during the 1920s and 1930s and how was the identity shaped by Czech reaction and Nazi influence?

Exploring Afro-German Occupation Children in Germany  
**Student(s):** Samantha Roberts  
**Mentor(s):** Kerry Wallach  
**Description:** To explore assimilation and acceptance of Afro-German occupation children in Germany and compare it with the U.S.

Vietnamese Contract Workers in the East German Republic  
**Student(s):** Sean Hough  
**Mentor(s):** Kerry Wallach  
**Description:** When the Vietnamese were brought to the GDR for work and education, did the socio-political goal of socialist unity against the west successfully subvert the overt cultural and ethnic differences between the two peoples?

Polish and Czech Immigrants in Germany during the Third Reich  
**Student(s):** Tyler Leard  
**Mentor(s):** Kerry Wallach

**Mellon Summer ’16 Scholars Presentations I**  
9:00am – 10:15am  
Breidenbaugh Hall 311

**Student(s):** Amanda Kaste  
**Mentor(s):** Stephen Stern  
**Description:** The purpose of this project is to investigate the impact of lived religious experiences on the involvement of individuals and their communities within the American Civil Rights Movement.
Gender and Sexuality in Japan
Student(s): Harley Emmons
Mentor(s): Eleanor Hogan
Description: Compare and contrast the climate and policies towards the LGBT community, specifically transgender and crossdressers, in Japan between the eighties and present day through primary media sources to prove a changing mentality and attitude towards LGBT issues. Specifically, a distinction between sexuality and gender identity, and a tolerance towards those who break gender norms.

The Education and Health Effects of Solid Cooking Fuel in Vietnam
Student(s): Huyen Do
Mentor(s): Jamie O'Brien
Description: Using the Vietnam Living Standard Survey, this quantitative research tests the hypothesis that elimination of the time burden of firewood usage affects children education, and health in rural Vietnam.

A Country by Any Other Name: Navigating Memory and Identity in the Former Yugoslavia
Student(s): Kathleen Clark
Mentor(s): William Bowman
Description: Analyze the interplay of historical memory and personal memory, specifically regarding ethnic and national identities that emerged from the Former Yugoslavia; compare the factors that shape personal identity, including current living situations, previous affiliations and international consensus.

Music Student Teaching Capstone Presentation
9:00 am – 9:30 am
Schmucker Hall 222 (Recital Hall)

Music Education Teaching Portfolio
Student(s): Rei Phillippi
Mentor(s): Brent Talbot
Description: The portfolio is a distillation of documents, projects, and materials that have resulted from four years of being in the Music Education program at Gettysburg College.
Film Festival
9:00am – 12:00pm
Breidenbaugh Hall 201 (Joseph Theater)

Cinema and Media Studies

“Last Words” A Liberal Artists Production
Student(s): Angelo Cupani
Mentor(s): James Udden, Jeffery Williams
Description: Exploring the possibility of a minimalist narrative with a fracture narrative timeline.

'Fated to Love You' and 'Yong Pal': A Cultural Study of Gender Role Reversals in Korean Television Dramas
Student(s): Natalie Adachi
Mentor(s): James Udden
Description: My research deals with international responses to two different K-dramas: Fated to Love You (2014), and Yong Pal (2015). I argue that this difference in response to these two shows is due to the fact that Yong Pal presents a reversal of the typical k-drama trope where the female lead tempers and brings out the best in the male lead.

Interdisciplinary Studies

The Cyclical Impact of Poverty on the Systematic Challenges in Education Faced by South African Youth
Student(s): Tucker Snow
Mentor(s): Kathleen Cain
Description: What are the systematic challenges that disadvantaged youth experience in the South African school system and what are some possible solutions to these issues?

Theatre Arts

Theatre as Therapy: The Penguin Project
Student(s): Emily Lunardi
Mentor(s): Susan Russell
Description: Involvement in theatre is transformative -- providing opportunities for personal growth, artistic development, and improved confidence. For children with special needs, an experience with the theatre means even more. This film showcases the beauty created by The Penguin Project at Gettysburg Community Theatre, a program for children and with and without disabilities.

Inside the Creative Mind
Student(s): Jonah Lucas
Mentor(s): Susan Russell
Description: How do the creative minds in theater turn a script into the finished production? Follow the journey as Gettysburg College turns the story of You Got Older into a main stage production.
Towards A More Inclusive Music Education
10:00am – 10:50am
Schmucker Hall 214

Towards A More Inclusive Music Education: The Experiences of Mentorship Between LGBTQIAA Undergraduates in Music Education and LGBTQIAA Faculty/Staff in Higher Education Across Pennsylvania
Student(s): Edward Holmes
Mentor(s): Brent Talbot
Description: What particular socio-cultural, environmental, and/or curricular practices lend themselves to LGBTQIAA inclusion and safety among students? How do students, faculty, and staff who identify as LGBTQIAA create and foster inclusive environments for music learning?

Multidisciplinary Panel I: Art and Art History, English, & Women, Gender, and Sexuality Studies Capstones
10:30am – 11:45am
Breidenbaugh Hall 205

Art and Art History

Lens on Habitat Destruction: A Photo Essay in Double Exposure
Student(s): Bethany Holtz
Mentor(s): Brent Blair

English

Dendron, A Collection of Poems
Student(s): Peter Rosenberger
Mentor(s): Nadine Meyer

Women, Gender, and Sexuality Studies Capstones

Gazing into the Experience of Queer Students on Gettysburg College's Campus
Student(s): Casey O’Higgins
Mentor(s): Nathalie Lebon
Description: Listening to queer student narratives on Gettysburg’s campus creates a blueprint of progress already made on campus, how accessible resources on campus are, how well resources promote queer identity development, and an outline for further progress for the queer student body.

Male Rape: Myth or Fact
Student(s): Ryan Stephens
Mentor(s): Nathalie Lebon
Description: Analysis of the television show Law and Order Special Victims Unit demonstrates that assumptions or myths about male rape are depicted and then debunked in order to create a new way of thinking about male rape.
German Studies Capstone II
10:30am – 11:45am
Breidenbaugh Hall 209

The Representations of Women in Holocaust Films
Student(s): Alexandra LeClaire
Mentor(s): Kerry Wallach
Description: How are women portrayed in Holocaust films?

The Roma and Sinti in Germany: Orientalism and Exclusion from German Historical Narratives
Student(s): Kimberly Longfellow
Mentor(s): Kerry Wallach
Description: In this work I will be analyzing the evolution of prejudice against the Roma in Germany throughout the twentieth century. This will include analysis of their presence in literature throughout this period, and their treatment before, during, and after the Holocaust.

Depictions of the Western Hybridization of Immigrant Spirituality in Film
Student(s): Stephen Lin
Mentor(s): Kerry Wallach
Description: The purpose of this study is to examine whether film furthers the notion of the “other” or bridges the gap between the western world and its immigrants.

Layered Identities: The Subaltern in Turkish-German Cinema
Student(s): Trevor Walter
Mentor(s): Kerry Wallach
Description: Does the Turkish-German subaltern find a voice through film?

Multidisciplinary Panel II: Globalization Studies & Religious Studies
10:30am – 11:45am
Glatfelter Hall 102

Globalization Studies

“An Assessment of the Role of Transnational NGO’s in the Development of Self-Reliance: A Case Study of Gulu, Uganda”
Student(s): Cassandra Scheiber
Mentor(s): Caroline Hartzell
Description: I hypothesize that a lack of accountability on the part of transnational NGOs in delivering aid in Gulu, Uganda has led to aid dependence which, in conjunction with growing distrust on the part of the local community, has stalled post-conflict development and had negative effects on community self-reliance.
Religious Studies

Lamentation Rituals in Shi’a Islam
Student(s): Cassandra Wells
Mentor(s): Megan Sijapati
Description: What is the relationship between Shi’a conceptions of the end of times and the practices commemorating Karbala?

Religion and the Rwandan Genocide
Student(s): Megan Fenrich
Mentor(s): David Walsh, Stephen Stern
Description: How were historical inferiority teachings (i.e. the Hamitic myth, Africa as an inferior continent, etc.) reinforced pre-, during, and post-Rwandan genocide? How were these teachings acted upon?

Walking Together: Lessons in Prison Ministry
10:30am – 11:45am
Glatfelter Hall 103

Walking Together; Lessons in Prison Ministry
Student(s): Anna Malone, Eun Chon, Mia Phillips, Spenser Greeley
Mentor(s): Charles Myers
Description: This group, which was an outgrowth of a Mellon Summer Scholars project, was created to gauge interest among college students and inmates housed at the local correctional facility in a program of Bible Study and discussion. For the past few months students have led weekly Bible studies with inmates at the Adams County Adult Correctional Complex to do so.

Protesting Through Song: Music as a Catalyst for Anti-War Sentiments
11:00am – 11:50am
Schmucker Hall 214

Protesting Through Song: Music as a Catalyst for Anti-War Sentiments
Student(s): Brittany Barry, Karl Segletes, Mary Clark, Meghan Riley
Mentor(s): Brent Talbot
Description: The purpose of our research is to analyze the manifestation of foreign affairs sentiments on the production and distribution of popular music.
Japanese Studies Senior Capstones ‘16
1:15pm – 2:30pm
Glatfelter Hall 103

Gender and Sexuality in Japan
Student(s): Harley Emmons
Mentor(s): Eleanor Hogan
Description: Compare and contrast the climate and policies towards the LGBT community, specifically transgender and crossdressers, in Japan between the eighties and present day through primary media sources to prove a changing mentality and attitude towards LGBT issues. Specifically, a distinction between sexuality and gender identity, and a tolerance towards those who break gender norms.

The Success of Japanese students and the Source of the Pressure to Succeed.
Student(s): Jonathan Barley-Alexander
Mentor(s): Eleanor Hogan
Description: There is an abundance of pressure to succeed in Japan and it is very prominent among the student population. With media and historic events involving education, this pressure is apparent, but where exactly does it come from?

Film in Transition: J-Horror for Western Audiences
Student(s): Kelly Ritchie
Mentor(s): Eleanor Hogan
Description: For what reasons are foreign films, in this case, J-Horror films, re-made for Western audiences?

Ambiguity in Japanese Language and Communication
Student(s): Lewis Holder
Mentor(s): Eleanor Hogan
Description: The purpose of this research is to examine the reasons for and the extent to which ambiguity truly occurs in Japanese communication in comparison to the communicative styles of American English, and whether it is a result of cultural and linguistic characteristics inherent to the Japanese language and the accompanying style of communication.

Mellon Summer Scholar Presentation II
1:15pm – 2:30pm
Glatfelter Hall 101

"And if any person will meddle of my cause": Anne Boleyn, Music, and Feminism
Student(s): Heather McConnell
Mentor(s): Marta Robertson
Description: This paper explores the way that Anne Boleyn, and by extension women in general, have been portrayed in Western music from the sixteenth century through the twenty-first century.
Exiles in the 16th Century Mediterranean
Student(s): John Denny
Mentor(s): Magdalena Sanchez
Description: Why did the mercantile city-states of Northern Italy actively seek to settle Jewish exiles from Spain and Portugal in the mid-16th century?

"A Stimulus to Valor:" Music and Morale During the Civil War
Student(s): Megan Sutter
Mentor(s): Ian Isherwood
Description: Music was a coping mechanism to deal with the suffering war brought upon the nation, challenging Victorian ideals of patriotism, religion, courage, and masculinity.

Multidisciplinary Panel III: Anthropology, History, & Religious Studies
1:15pm – 2:30pm
Glatfelter Hall 102

Anthropology

The Price on Our Practices: Motivation and Cultural Commodification in the Mongolian Tourism Industry
Student(s): Joseph Recupero
Mentor(s): Donna Perry
Description: The project seeks to examine the developing tourism industry in Mongolia and to prove the following thesis: due to misunderstandings of tourism development by the Mongolian government, the tourism industry develops around community-based initiatives, which cause changes, including cultural commodification, among the communities participating in the industry.

History

Friendly Colonization: Quaker Missionaries, Gender, and Native American Civilization Programs After the American Revolution
Student(s): Sophia Vayansky
Mentor(s): Timothy Shannon

Religious Studies

Searching for Spirituality: Kerouac, Nietzsche, and the New Age Movement
Student(s): Megan Fenrich
Mentor(s): Stephen Stern
Description: How does Jack Kerouac create his own spirituality? Does he have more fidelity to tradition or fidelity to liberty?
Saturday, April 30th Art

Art Exhibition Featuring “The Emotions of Me”
10:30am – 11:30am
Schmucker Hall Art Gallery

The Emotions of Me
Student(s): Carolyn McBrady
Mentor(s): Mark Warwick
Description: I want to show the emotional changes that I have gone through during college, and my personal abilities that have helped me reach the goals I have fulfilled as I graduate on to the next stages of my life.

Saturday, April 30th Music

Vermont Counterpoint
9:30am – 10:00am
Schmucker Hall 222 (Recital Hall)

Vermont Counterpoint by Steve Reich
Student(s): Karl Segletes, Megan Sutter
Mentor(s): Robert Natter, Teresa Bowers
Description: During the Fall of 2015 and Spring of 2016, Karl Segletes and Meg Sutter recorded the piece Vermont Counterpoint by Steve Reich, which includes twelve distinct flute parts put together as a tape and then played over during the live performance by the soloist.

Saturday, April 30th Theater

Fewer Emergencies
1:15pm – 2:30pm
Brua Hall 215 (Stevens Theatre)

Fewer Emergencies
Student(s): Andrew Cowan, Andrew Gorelick, Caitlin Boyle, Catherine Wisell, Jacob Ryave, Mairread Kress
Mentor(s): Susan Russell
Description: A post-dramatic play by Martin Crimp. Directed by Andrew Gorelick
Saturday, April 30th Posters

Global Education

“Studying Globally & Spreading it Locally”

Student(s): Abigail Hoelzer  
Mentor(s): Daniel Albertson  
Description: I’d like to share my experience in the GLGC group and explain how it has connected my abroad experience to my campus experience. In my poster I will discuss how my study in Copenhagen, Denmark worked to enhance my local experience as a student within the Gettysburg College community.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

A Global Education for a Global Purpose: My experience as a Gettysburg Global Leader

Student(s): Samantha Foote  
Mentor(s): Daniel Albertson  
Description: The purpose of this poster is to remark on my experience as a GLGC member and how it shaped my college leadership, advocacy, and purpose.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Abroad and at Home

Student(s): Jonathan Faul  
Mentor(s): Daniel Albertson  
Description: Connecting Global Learning to Global Living  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Applying Topics of Race and Religion to Gettysburg College Through Understandings of Indigenous Australian Culture

Student(s): Graham Homan  
Mentor(s): Daniel Albertson  
Description: To show what I have gotten out of the Global Leaders of Gettysburg College program and how I incorporated my study abroad experience into the campus community.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Art for What Sake? An Analysis of Responses from Local Artists in Sarajevo on the Role of Art in a Post-War Bosnia and Herzegovina.

Student(s): Bowen Yang  
Mentor(s): Sahana Mukherjee  
Description: What was the art scent and its role in a post-war Bosnian society from the perspective of local artists.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby
Being a Global Leader at Gettysburg College: Studying Abroad in Nepal

Student(s): Jonah Lucas  
Mentor(s): Daniel Albertson  
Description: Studying abroad in Nepal allowed me to have a more global Gettysburg experience.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Boleto y Entrada: A Roundtrip Ticket to a Year Abroad

Student(s): Elizabeth Belair  
Mentor(s): Daniel Albertson  
Description: To illustrate my work with the Global Leaders of Gettysburg College (GLGC) program at Gettysburg College  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Bringing Abroad Back Home

Student(s): Lee Friedman  
Mentor(s): Daniel Albertson  
Description: The purpose of this poster is to summarize my ability to integrate my time abroad back to the Gettysburg College campus.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Cope-ing with the lack of Rugbrød: Incorporating my abroad experience into life in Gettysburg

Student(s): Marli Horwitz  
Mentor(s): Daniel Albertson  
Description: This presentation acts as the culmination to the Global Leaders of Gettysburg College program.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Days in Denmark

Student(s): Sara Bias  
Mentor(s): Daniel Albertson  
Description: This poster is going to be a recap about my time in Denmark for Global Leaders of Gettysburg College, with a specific emphasis on my internship with a newspaper there.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby
El poder del pavimento: Una documentación de los efectos perjudiciales siguiendo la apertura de una carretera a una comunidad Kichwa en la selva amazónica

Student(s): Elizabeth Cooper  
Mentor(s): Rebecca Bergren  
Description: Para la comunidad Kichwa en Arajuno, la carretera Puyo-Arajuno es una representación física y figurativa del ingreso de cambios en su cosmovisión, el uso de recursos naturales, sus valores y su religión.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

From Salamanca to Gettysburg: Reflections on Participation in the Global Leaders of Gettysburg College

Student(s): Emily Foley  
Mentor(s): Daniel Albertson  
Description: Explore the relationship between my study abroad experience and my life at Gettysburg.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Global Leader of Gettysburg College

Student(s): Carolyn Mako  
Mentor(s): Daniel Albertson  
Description: How has my experience as a Global Leader of Gettysburg College impacted my time at Gettysburg College?  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Global Leaders of Gettysburg College: Wollongong, Australia

Student(s): Kaitlin McGowan  
Mentor(s): Daniel Albertson  
Description: I will be presenting a poster detailing my involvement with Global Leaders of Gettysburg College throughout the 2015-2016 school year.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

How to Build Upon Your International Experiences After Returning to Gettysburg.

Student(s): Jacqueline Beckwith  
Mentor(s): Daniel Albertson  
Description: How does a study-abroad experience enhance learning at Gettysburg College, and how does the Global Leaders of Gettysburg College program encourage a continuation of that international adventure?  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby
Jaipur to Gettysburg: Bringing my Abroad Experience Back to Campus

Student(s): Danielle Cupp  
Mentor(s): Daniel Albertson  
Description: I'm presenting my time abroad in Jaipur as well as my time back in Gettysburg as a member of Global Leaders of Gettysburg College.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Mentorship, Activism, and Scholarship in Studying Abroad

Student(s): Christina Mule  
Mentor(s): Daniel Albertson  
Description: How studying abroad helped me be a better mentor, activist, and scholar back on the Gettysburg campus  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

My Experience with the GLGC Program: Bringing Panama back to Pennsylvania

Student(s): Connor Hinton  
Mentor(s): Daniel Albertson  
Description: An overview of my participation with the Global Leaders of Gettysburg College program and how it furthered my global education.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

My experiences of going from Gettysburg to Australia and back.

Student(s): Caroline Ehrhardt  
Mentor(s): Daniel Albertson  
Description: Culminating experience with Global Leaders of Gettysburg College  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Perceptions of Peace and Reconciliation: Case of Lokokwo Peyot Women’s Group in Paidwe Parish, Bobi Sub-County

Student(s): Amanda Kaste  
Mentor(s): Daniel Albertson  
Description: This independent study project, conducted during a semester abroad in Gulu, Uganda, explores the experiences and perceptions of women as they reflect on their lives and communities prior to, during, and after the Lord's Resistance Army conflict in northern Uganda.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby
Returning with a Global Perspective: Applying my Semester Abroad to My Experiences at Gettysburg College

Student(s): Julia Freed  
Mentor(s): Daniel Albertson  
Description: The purpose of this project is to show how my experiences abroad and with the GLGC have helped shape my final year at Gettysburg College.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Safari Njema (Peaceful Journey): How Being a Member of GLGC Eased my Tanzania-Gettysburg Transition

Student(s): Holly Scott  
Mentor(s): Daniel Albertson  
Description: Upon my return to campus from a semester in Tanzania, being a member of the GLGC helped ease my adjustment back to life on campus and provided me with an outlet to share what I learned in a meaningful way.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

Sawubona, Gettysburg

Student(s): Madison Galdi  
Mentor(s): Daniel Albertson  
Description: A culmination of my time with the GLGC and incorporation of my time abroad into my time on campus.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

The Work Starts When the Program Ends

Student(s): Ashley Fernandez  
Mentor(s): Rebecca Bergren  
Description: How can I bring back all that I've learned in Morocco about activism to a campus that I hope changes?  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby

There and Back: Reflections on Converging Gettysburg and Copenhagen Experiences

Student(s): Bethany Foxx  
Mentor(s): Daniel Albertson  
Description: This presentation is a cumulative project of the Global Leaders of Gettysburg College program through the Center for Global Education. Throughout this past year I have sought to connect my Copenhagen and Gettysburg experiences through scholarship, activism, and mentorship in order to continue my international education upon return to campus.  
Time/Location: 1:15pm – 2:30pm, Science Center 2 & 3 Lobby
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Addendum

Friday, April 29th Poster Session

**Education:**

EDUC 306 - Teaching Social Studies project  
**Student(s):** Amanda Pollack, Elizabeth Smith  
**Mentor(s):** David Powell  
**Time/Location:** 4:30pm-6:15pm, College Union Ballroom

Saturday, April 30th Panel

Mellon Summer Scholar Presentation II  
1:15pm – 2:30pm  
Glatfelter Hall 101

**Although the Year be Done: an Exercise in Long-Form Musical Composition**  
**Student(s):** Richard Thomas  
**Mentor(s):** Avner Dorman

**Lamentation Rituals in Shi'a Islam**  
**Student(s):** Cassandra Wells  
**Mentor(s):** Megan Sijapati  
**Description:** What is the relationship between Shi'a conceptions of the end of times and the practices commemorating Karbala?  
*Moved from Multidisciplinary Panel II (pg. 31)*