

Adrian College

Ribbons of Excellence

April 14, 2021



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Welcome

TO RIBBONS OF EXCELLENCE

Mission Statement:

Adrian College, a liberal arts college in the United Methodist tradition, is committed to the pursuit of truth and dignity of all people. Through active and creative learning in a supportive community, undergraduate and graduate students are challenged to achieve excellence in their academic, personal, and professional lives, and to contribute to a more socially just society.

Hello,

I am pleased to welcome you to our annual Ribbons of Excellence Day Conference at Adrian College, a day dedicated to celebrating scholarly accomplishments of our students through presentations, exhibitions, and performances. A tradition started in 2008 and developed out of a faculty initiative to create and support our academic culture, today is the culmination of at least one year of preparation by students and their mentors.

The Ribbons of Excellence form the foundation of our shared values at Adrian College and each presentation today is linked to at least one thematic ribbon. I would like to thank Dr. Elizabeth McGaw and the team of faculty and staff who worked in support of this event. We are thrilled that you are joining us today to celebrate our students and their accomplishments.

Best Regards,

Dr. Andrea R. Milner

Vice President and Dean of Academic Affairs

Welcome,

This is such an exciting day on campus, one of my favorite each year. This is the day we get to celebrate all the great things that our Adrian College students and faculty work so hard on throughout the year. This is the time we get to celebrate scholarship and encourage learning and growing. I really hope you enjoy all of the presentations as much as I do and have a great day celebrating our students.

The history of the Ribbons of Excellence Program resides in the Cane Ceremony tradition of tying a ribbon with the names of graduates to the Shepherd's Crook. This tradition has been carried on since 1887; in 2007 the academic community at Adrian College developed its academic vision of the Ribbons of Excellence Program. The Ribbons of Excellence are what each and every member of our community strives for; the Ribbons of Excellence are what we want Adrian College to be known for: caring for humanity and the world; learning throughout a lifetime; thinking critically; crossing boundaries and disciplines; and developing creativity.

Through today's Program we strive to achieve this goal of making this vision a reality. Students embark in research and other projects to think critically and creatively and to tie these ribbons into their lives, not just to the Shepherd's Crook. We also strive to achieve learning throughout a lifetime and caring for humanity by inviting community members, faculty, staff, students and other visitors to attend the day's events. The day is also about crossing boundaries and disciplines, as we are trying to expose students, through their presentations, to other buildings and communities on campus.

On behalf of the Ribbons of Excellence Program Committee, I would like to thank everyone involved in this day for your hard work and especially all of you attending. Thank you for all you did to make the 2021 Ribbons of Excellence Day Program outstanding.

Regards,



Elizabeth A. McGaw, Ph.D.

Director, Ribbons of Excellence Program

Associate Professor, Department of Chemistry & Biochemistry

Conference

SCHEDULE

8:30 am	Opening Remarks and Introduction Keynote address Magistrate Christy Cole '98	Herrick Chapel
9:30 am	Student Session 1	Jones 110, Peelle 207, Knight Aud, Rush 124, Downs Hall
10:30 am	Break	
10:45 am	Student Session 2	Jones 110, Peelle 207, Knight Aud, Rush 124, Downs Hall
11:45 am	Lunch Break	
1:00 pm	Poster Session	AT Room
1:00 pm	Meet the Artist	Shipman Library
2:00 pm	Student Session 3	Jones 110, Peelle 207, Knight Aud, Rush 124, Valade 229
3:00 pm	Break	
3:15 pm	Student Session 4	Jones 110, Peelle 207, Knight Aud, Rush 124, Valade 229
4:30 pm	Alpha Chi Induction Ceremony	Herrick Chapel

Keynote

SPEAKER



CHRISTY L. COLE '98

Common Threads: Critical Thinking, Leadership and Success

Christy L. Cole was hired as Magistrate on October 1, 2019.

Magistrate Cole graduated from St. Ursula Academy in 1995; graduated with honors from Adrian College with a B.A. in English in 1998; and obtained her Juris Doctorate from the University Toledo College of Law in 2001.

Magistrate Cole served as an Assistant Prosecutor for the City of Sylvania from 2015-2017. She was promoted to Chief Prosecutor in 2017 and served as the City's first female Chief Prosecutor until 2019. Magistrate Cole previously served as an Assistant Prosecutor in Ottawa County and Fulton County prosecuting felony and misdemeanor criminal cases. She also prosecuted cases in the Juvenile Division, in both counties, including abuse, neglect and dependency cases.

From 2015-2017, Magistrate Cole served as the Director of the George Romney Institute for Law and Public Policy at Adrian College. She also was an Adjunct Instructor at the College and taught courses in Sociology, Sex Discrimination and Violence against Women and Constitutional Law.

From 2009 through 2015, Magistrate Cole had a private law practice focusing on criminal defense, domestic relations and juvenile law. She also owned and operated a family business.

Magistrate Cole is active in the Sylvania Community and serves as a Board member for the Sylvania Community Action Team and is a member of Sylvania Rotary.

Magistrate Cole and her husband Sam have three Children, Josie, Cole and Cooper.

LIST OF SESSIONS

Jones 110	9:30-9:50 am	How to Have an Effective Conversation	Kelli Corcoran
Jones 110	9:50-10:10 am	Is Our Fake News More Sharable Than Your Fake News?	Tianna Lavalley; Chelsea Bruno; Jordyn Wanio; Katelyn Hayward; Deven Cushard; Kaitlynn Pawlak; Leah Williams; Katrina Robinson
Jones 110	10:10-10:30 am	Cosplaying with Identity	Angela LoRusso
Peelle 207	9:30-9:50 am	The Effects of Mindful Attention Awareness Scale Survey Implementation on Anxiety and Depression Scores in College Students	Megan Coleman
Peelle 207	9:50-10:10 am	The Effects of Listening to Self- Selected Music during a Strength- Training Workout in Football and Hockey Players, and Wrestlers	Brandon Moody
Peelle 207	10:10-10:30 am	Certified and Licensed Athletic Trainers' Education and Perceptions of Competence in Mental and Behavioral Health	Destiny Rogers
Knight Auditorium	9:30-9:50 am	Even Our Youngest Learners are Writers	Hannah Monroe
Knight Auditorium	9:50-10:10 am	Fight for the Fairy Tale	Isabelle Anderson
Knight Auditorium	10:10-10:30 am	From Grimm Fairy Tale to Disney Animation: Growing up Wanting to Be a Pretty Princess	Abigail Wise
Rush 124	9:30-9:50 am	Insect Collection and Identification at Heritage Park	Karter Reedy
Rush 124	9:50-10:10 am	The ecological impacts and risks of de-extinction	Alexis Zettel
Rush 124	10:10-10:30 am	Site Comparison by Floristic Quality Assessment: Is Settlers' Field a Prairie Remnant?	Kyle Schumann

Downs Hall	9:30-9:50 am	Two-part Inventions By Pete Ford	Hananh Roty; Naomi Wong
Downs Hall	9:50-10:10 am	Black American Composers on the Classical Concert Stage	Briyanna Wilson
Downs Hall	10:10-10:30 am	Josephine Brown's Junior Recital Preview	Josephine Brown
10:30-10:45 am Break			
Jones 110	10:45-11:05 am	From Laboratory to Newsroom: Science Journalism in the 21st Century	Emily Little
Jones 110	11:05-11:25 am	Letters Project	Kylee Doty
Jones 110	11:25-11:45 am	Travel Writing's Impact on Society	Helena Mazzarella
Peelle 207	10:45-11:05 am	The Savage Effects of Global Warming: How Heat Influences Aggression in the City	Sara Wallace
Peelle 207	11:05-11:25 am	Subsidence in Adrian, Michigan	Claire Brovold
Peelle 207	11:25-11:45 am	A Sustainable Alternative - Grass Paper	Taylor Sinclair
Knight Auditorium	10:45-11:05 am	The Thucydides Trap - Tale of Two Cities: Washington and Beijing	Kevin Clipper
Knight Auditorium	11:05-11:25 am	The Shandong Question: China's Search for International Partners in the Early 20th Century	Kevin Clipper
Knight Auditorium	11:25-11:45 am	Victorian Women and the "City of the Sultan"	Sydney Foster
Rush 124	10:45-11:05 am	The Quality of Cardiopulmonary Resuscitation Skills in Athletic Trainers	Jenna Moreno
Rush 124	11:05-11:25 am	Effects of Blood Flow Restriction on Muscle Activation during Static Single Leg Balance in Individuals with Chronic Ankle Instability	Emily Haas

Rush 124	11:25-11:45 am	Analysis of Blood Vessel Patterns Using Statistical Methods	Jessica Ryder; Robert Nowik; Neysa Miller
Downs Hall	10:45-11:05 am	Kinza Parker, Acting Recital Presentation	Kinza Parker
Downs Hall	11:05-11:25 am	The Evolution of Eras: A Musical Theatre Experience	RaSheiah Asare
11:45-1:00 pm Lunch Break			
AT Room	Poster Session 1:00-2:00 pm	Understanding The Offensiveness of Sexist Humor and How it Relates to Beliefs About Women	Chelsea Bruno
AT Room	Poster Session 1:00-2:00 pm	The Use of Musculoskeletal Ultrasound in Assessing the Supraspinatus Muscle	Emily Baldus
AT Room	Poster Session 1:00-2:00 pm	Kelsey Edwards: Stage Managing The Moors	Kelsey Edwards
AT Room	Poster Session 1:00-2:00 pm	Costume Design: The Moors by Jen Silverman	Kayla Hempill
AT Room	Poster Session 1:00-2:00 pm	Media Influence and its Effect on Political Awareness	Elliott Edsall
AT Room	Poster Session 1:00-2:00 pm	Media Influence on American Perception of Gun Control	Nicole Olson
AT Room	Poster Session 1:00-2:00 pm	The Effects of Feminist Attitudes on Stereotype Threat	Abby Tourison
AT Room	Poster Session 1:00-2:00 pm	Rap Music's Influence on Violence	Ethan Garcia
AT Room	Poster Session 1:00-2:00 pm	How Students with Disabilities are Impacted by Accessibility in Their Pursuit of Education	Victoria Poland
AT Room	Poster Session 1:00-2:00 pm	Evidence for the Role of Allopregnanolone in Neonatal Maladjustment Syndrome Calves	Kasimir Oganowski; Mark Henderson
AT Room	Poster Session 1:00-2:00 pm	Understanding Factors that Contribute to Sleep Quality Among D3 College Athletes	Spencer Furlich

Shipman Library	Meet the Artist 1:00-2:00 pm	Hikaru Dorodango Art as Vessel of Learning	Ronda Tuberville
Jones 110	2:00-2:20 pm	The Influence of Psychological Factors on Proper Hand Hygiene in Athletic Trainers	Allison Zyzewski
Jones 110	2:20-2:40 pm	Master's Thesis: The Effect of Hip Abductor Fatigue on Balance as Measured by the SWAYÁ® Balance Mobile Application	Infinity Rogers
Jones 110	2:40-3:00 pm	Effects of Blood Flow Restriction on Center of Pressure During Static Single-Leg Balance Exercises in Individuals with Chronic Ankle Instability	Caroline Fleming
Peelle 207	2:00-2:20 pm	The Narrative Paradigm in Kendrick Lamar's "To Pimp a Butterfly"	Gage Dansby
Peelle 207	2:20-2:40 pm	Inconvenient Woman	Kylee Doty
Peelle 207	2:40-3:00 pm	Women Aren't Just for Gazing	Kaitlin Parisi
Knight Auditorium	2:00-2:20 pm	Adapting Compositions to Fit Available Instrumentation	Nathan Bielskis
Knight Auditorium	2:20-2:40 pm	From bibliotherapeutic texts to canon: how modern students need modern texts	Kelsey Dupuis
Knight Auditorium	2:40-3:00 pm	The Impact of Physical Activity on Social and Emotional Development in the Preschool Classroom	Ashley Ray
Rush 124	2:00-2:20 pm	Confronting the Silence that Follows Violence Against Women: A Creative and Analytical Response to "The Events of October" Murder-Suicide on a Small Campus	Emma Harbaugh

Rush 124	2:20-2:40 pm	In 2021, I took an Epistolary Approach to the Inflection of Discourses: Bridging the Gap between Feminist Theory and Medicine	Karlie Acord
Rush 124	2:40-3:00 pm	I Want You to Know: Survivors on Healing and Support After Sexual Assault	Sydney Foster; Katherine Jaeger
Valade 229	2:00-3:00 pm	English Students Writing Showcase	Benjamin Perone; Paige Quarandillo; Gabrielle Barksdale; Cameron Ertner; Anna Wozniak; Paszionique Kelly; Hannah Roegner
3:00-3:15 pm Break			
Jones 110	3:15-4:15 pm	Star Light Writing Award and Mahan Manuscript Honors Award	Leah Scrantom; Daisy Roberts; Gracie Jennings; Giana DeRosa; Alexis Weston
Peelle 207	3:15-3:35 pm	The Emerging Field of Interpersonal Expressive Writing Therapy	Hallie Bigman
Peelle 207	3:35-3:55 pm	The Clinician's Perceptions of the Effectiveness of EMDR Treatment for Past Interpersonal Trauma	Katherine Jaeger
Peelle 207	3:55-4:15 pm	Rhetorical Interpretation, Family Law, and My Personal Experience: Is It Really in the Child's Best Interest?	Taylor Anson
Knight Auditorium	3:15-3:35 pm	COVID-19: Response by Michigan Universities and Colleges	Olivia Fox
Knight Auditorium	3:35-3:55 pm	Evaluating Levels of Satisfaction Among Graduate Students at Adrian College	Lydia Christian
Knight Auditorium	3:55-4:15 pm	Libraries Are Still Relevant in the Modern Day and How Covid Has Helped Bring That to Light	Emma Brockett

Rush 124	3:15-3:35 pm	Legitimacy with Chinese Characteristics	Kevin Clipper
Rush 124	3:35-3:55 pm	The Theatre of Politics: An Aristotelian Analysis of the 2020 Presidential Campaign	Maryssa McNamara
Valade 229	3:15-3:35 pm	Laura Haviland: Understanding the Memorialization of a Local Hero	Laurel Hammis
Valade 229	3:35-3:55 pm	Racial Inequalities and Framing Effects: The Moderating Role of Implicit Racial Bias	Austin Guanzon
Valade 229	3:55-4:15 pm	Refugee Outreach Collective Advocacy Campaign: Why Education?	Elizabeth Hume; Jenna Bratke; Emily German

Kelli Corcoran

How to Have an Effective Conversation

Mentors: Bethany Shepherd

Ribbons: Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: 1A, 9:30-9:50 am, Jones 110

Abstract: Through conversation, there can be miscommunication and misinterpretation. This study aims to identify the characteristics of an effective conversation without miscommunication or misinterpretation. To identify these characteristics, students of Adrian College were paired up and observed while having a casual conversation on whatever topic(s) they preferred. Detailed notes were taken on how students conversed with one another and how the conversation went. These notes were then organized into categories along with research to determine the characteristics of an efficient conversation. Through observations and research, it was determined that the effectiveness of conversations are affected by the expressions, intonation, gestures, and content within the conversations. As a student majoring in English and getting my certification in education, that was the main motive behind this study and research. Communication is a part of everyone's lives. Not only is communication important when building rapport with students, but it is also extremely important when instructing students in a classroom.

Tianna Lavalley; Chelsea Bruno; Jordyn Wanio; Katelyn Hayward; Deven Cushard; Kaitlynn Pawlak; Leah Williams; Katrina Robinson

Is Our Fake News More Shareable Than Your Fake News?

Mentors: Stacey Todaro; Seth Knox

Ribbons: Caring for Humanity and the World, Thinking Critically

Session/Time/Location: 1A, 9:50-10:10 am, Jones 110

Abstract: In recent years, the presence of fake news on the internet has grown exponentially (Griefender et. al., 2020). Fake news is false information that is created to misinform and, in some instances, harm the general public. This is problematic because most people assume information to be truthful and once fake news spreads, it can be difficult to correct and tends to persist over time (Lewandowsky et al., 2012). The goal of this research was to examine how subtle manipulations in fake news posts, like the presence or absence of phatic communication and identity triggers influences one's willingness to engage with and disseminate fake news. We also examined how political ideologies might moderate the effects.

Angela LoRusso

Cosplaying with Identity

Mentors: Jan Blaschak

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 1A, 10:10-10:30 am, Jones 110

Abstract: They navigate the algorithms of social media, they order overpriced coffee from local stores, and they stay up practically all night before some of the largest social events of their lives. It's a bird, it's a plane, it's a Cosplayer. The definition of Cosplay and what it entails might be unfamiliar, however, we all have much in common. A Cosplayer, or one who Cosplays, has a grand interest in our media, from literature to television, and seeks to bring that media to life. However, Cosplaying brings another dimension to "bringing media to life", it encourages critical thinking of the media we consume and participate in every day. To help bring this dimension into perspective by highlight the benefits of Cosplaying, this presentation will utilize multiple research papers and condense their ideas into understandable and accessible chunks of information. Additionally, the main goal is to bring about a clearer understanding of Cosplay for our modern perspective, as well as develop a working definition of Cosplay that is more accurate than may be currently available. This presentation uses a view of sociology to improve understanding, as well as an insider's perspective brought by the presenter's own experience.

Meagan Coleman

The Effects of Mindful Attention Awareness Scale Survey Implementation on Anxiety and Depression Scores in College Students

Mentors: Heather Schuyler

Ribbons: Developing Creativity

Session/Time/Location: 1B, 9:30-9:50 am, Peelle 207

Abstract: Context: Depression and anxiety have become the most common illnesses. Those with a depressive disorder frequently have features of anxiety disorders, and vice versa. Approximately one in five adults experiences mental illness in a given year, this rate tends to be highest among young adults, many of whom are college students. Additionally, the use of mindfulness practices is favorable in aiding college students manage stress, anxiety, and depression. Objective: To determine if the implementation of the Mindful Attention Awareness Scale will decrease the levels of anxiety and/or depression in college students over time. Design: Observational study design. Setting: Adrian College Participants: A total of 46 Adrian College Students Intervention: Participants were randomly assigned to the intervention or control group. The intervention group completed the Mindful Attention Awareness Scale (MAAS) weekly for 4 weeks. The control group completed the MAAS during week 1 and week 4. Main Outcome Measures: MAAS was used to assess and measure mindfulness. The Patient Health Questionnaire 9 Screening Tool (PHQ-9) was used to assess and measure depression symptoms severity. The Generalized Anxiety Disorder 7 Screening Tool (GAD-7) was used to assess and measure anxiety. A one-way ANOVA will be used to determine if there is a significant difference between the MAAS scores and the PHQ-9 & GAD-7 scores. Then a Post Hoc test will determine which mean is significantly different and in what week this difference is occurring. Results & Conclusion: Results & conclusion will be discussed at ROE presentation.

Brandon Moody

The Effects of Listening to Self-Selected Music during a Strength-Training Workout in Football and Hockey Players, and Wrestlers

Mentors: Erin Burkholder, Heather Schuyler

Ribbons: Thinking Critically

Session/Time/Location: 1B, 9:50-10:10 am, Peelle 207

Abstract: Introduction: Music has shown to improve both aerobic and anaerobic performance during specific exercise tests. Much of these results are still conflicting within the realm of anaerobic exercise. No study, however, has assessed listening to self-selected music during an entire training workout while using multiple athletic populations. Purpose: The purpose of the current study is to determine what effects listening to self-selected music would have on exercise performance during a typical strength training workout. Hypothesis: Listening to self-selected music during a strength training workout will improve performance and reduce ratings of perceived exertion (RPE) during the workout. Methods: 18 trained individuals (13 males; 5 females) who were members of the football, wrestling, and hockey teams completed two training workouts, both workouts were similar to what these individuals would complete during a typical training session for their sport. One workout included listening to self-selected music (M), while the other incorporated no music (NM). Visits were randomly assigned by the investigator. RPE, repetitions completed (REPS), and time to completion (TIME) were recorded after each exercise. Results: Music did not have a significant decrease in RPE ($M = 12.630 \pm 2.46$; $p = 0.872$) and time to completion ($M = 16.792 \pm 12.93$; $p = 0.390$) or significant increase in repetitions completed ($M = 21.253 \pm 8.36$; $p = .287$) during the training workout. Conclusion: It is concluded that listening to self-selected music during a training workout does not improve anaerobic performance in trained individuals.

Hannah Monroe

Even Our Youngest Learners are Writers

Mentors: Linda Learman

Ribbons: Thinking Critically

Session/Time/Location: 1C, 9:30-9:50 am, Knight Auditorium

Abstract: Literacy is arguably the most important portion of curriculum in early education. Reading has historically been the main focus; however writing has proved itself to be valuable for multiple reasons in early childhood classrooms. Writing is how children express thoughts, demonstrate learning and understanding, and communicate ideas to others. Oral language, reading, and writing all need to be developed simultaneously in order to reach the best results for children. Teaching young children about writing in preschool can have lasting benefits, ranging from increasing literacy skills and promoting future learning to fostering healthy self-expression and promoting positive attitudes towards writing. I supply an array of evidence for why children in preschool should be taught writing and offer suggestions for implementing a writing curriculum with these young learners with a renewed understanding of what that means as I outline in my presentation. I conclude by encouraging the importance of thinking critically about early childhood education, specifically with re-envisioning teaching writing to preschoolers.

Destiny Rogers

Certified and Licensed Athletic Trainers' Education and Perceptions of Competence in Mental and Behavioral Health

Mentors: Heather Schuyler

Ribbons: Learning Throughout a Lifetime

Session/Time/Location: 1B, 10:10-10:30 am, Peelle 207

Abstract: Certified and Licensed Athletic Trainers' Education and Perceptions of Competence in Mental and Behavioral Health Presenter: Destiny Rogers Mentors: Dr. Heather Schuyler and Dr. Emily Kist Abstract Background: Mental health has become more prevalent in today's society, particularly in athletes. Mental health disorders can lead to disabilities, physical injury and pain, poor behavioral choices, and possibly death. Athletic trainers play an important role in athletes' lives including identifying and determining a course of action for athletes experiencing abnormal mental and behavioral health. Understanding athletic trainers' education in mental and behavioral health provides researchers with a better knowledge base and highlights areas that may be in need of improvements to better serve the clinical population. Objective: To assess athletic trainers' previous education regarding mental and behavioral health and determine their perceived competence with intervening and referring athletes experiencing abnormal mental and behavioral health. Design: Descriptive study design. Setting: Confidential online google forms survey. Participants: Certified and licensed athletic trainers across the United States were recruited through personal networks, email, social media, and word of mouth. Interventions: Certified and licensed athletic trainers completed the online ATs Education and Perceptions of Competence in Mental and Behavioral Health- Thesis Survey. This survey was developed to assess demographics, athletic trainers' education on mental and behavioral health, and their perceptions of competence dealing with mental and behavioral health abnormalities. Main Outcome Measures: Main outcomes to be determined. Results & Conclusions: This study is currently ongoing, final results and conclusions will be presented at Ribbons of Excellence.

Isabelle Anderson

Fight for the Fairy Tale

Mentors: Bethany Shepherd

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 1C, 9:50-10:10 am, Knight Auditorium

Abstract: Fairy tales are the foundation of society. They are indicators of religion, relationships, power, and much more. They symbolically represent what is found and what is missing in society. As a key part of society, and the cultures intertwined with societies, fairy tales are a resource for teaching through a multicultural and interdisciplinary approach. This background was the "why" behind this project. Developed over the course of Capstone, this project combined the majors of English and Education. It resulted in the cultivation of several creative writing pieces and a unit design, featuring materials and lesson plans, and provided the perfect avenue to educate students about the importance of all literature--classics and contemporary works--and the pertinent of intertextuality. Undergoing this reflective process of unit designing allowed me to truly take a look at the interwoven aspects of the English field, specifically its representation of deeper-level thinking, intersectionality, creative writing, literature, and education--all connecting through the field of Writing Studies.

Abigail Wise

From Grimm Fairy Tale to Disney Animation: Growing up Wanting to Be a Pretty Princess

Mentors: Renee Collins

Ribbons: Developing Creativity

Session/Time/Location: 1C, 10:10-10:30 am, Knight Auditorium

Abstract: An analysis of the Grimm Brothers fairy tales "Little Snow-White," "Cinderella," and "Little Briar-Rose." This analysis then dives into the Walt Disney movie adaptations Snow White and the Seven Dwarfs, Cinderella, and Sleeping Beauty. This study explores the differences between the written versions of these fairy tales and their movie counterparts. After the analysis, this study dives into the effects that this stereotypical storyline that has been used for hundreds of years has on children and their gender identity and argues that the stereotypical "beautiful" princesses on the screen and in texts are what teach young girls that attractiveness is essential in one's identity.

Karter Reedy

Insect Collection and Identification at Heritage Park

Mentors: Jeffrey Lake

Ribbons: Thinking Critically

Session/Time/Location: 1D, 9:30-9:50 am, Rush 124

Abstract: Insects are an important part of biological diversity. The understanding of insects in different habitats can better tell the health of ecosystems. Understanding insects within a particular environment can help us to understand the diversity within the ecosystem. Heritage Park, a 400 acre city park in northeast Adrian, represents a diversity of habitats from wetland to upland forest, from managed sports fields to a remote controlled model plane field, and it features a vast variety of hiking trails and challenging disc golf courses. This research focuses on three key questions: 1. What insects are present within the park? 2. Do the insect types vary within the different habitats within the park? And 3. Does the GPS data help to distinguish different ecosystems within the park? From September to October 2020, net collections were taken in 5 habitats around the park. Specimens were preserved in alcohol, and locations were georeferenced with GPS. The results indicate that there are species of insects that are common throughout the park, which include: species of ants (formicidae), species of leafhoppers (cicadellidae), and species of grasshoppers (orthoptera). The use of GPS data allows for a collaborative use of Google Earth to show the topography of the park, and the areas where insects were collected from. This project was a basic overview of the different species found within the park due to the time constraints of the semester, but many species were caught and the results seemed to show grassland is a common ecosystem within the park.

Alexis Zettel

The ecological impacts and risks of de-extinction

Mentors: Jeffrey Lake

Ribbons: Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: 1D, 9:50-10:10 am, Rush 124

Abstract: De-extinction, the revival of extinct species, has intrigued scientists for decades. Though the science is not quite there yet, the potential of bringing back species from extinction brings unique ethical concerns to the forefront of biology. Currently, there are three plausible methods to bring a species back from extinction: cloning, genetic engineering, and back-breeding, each of which have their own controversies. This work examines arguments for and against the revival of species in ecological terms, the costs of these efforts, as well as a number of the ethical concerns surrounding these revival projects. In the final point of this work, the other potential fields that could utilize aspects of de-extinction is assessed.

Kyle Schumann

Site Comparison by Floristic Quality Assessment: Is Settlers' Field a Prairie Remnant?

Mentors: Jeffrey Lake

Ribbons: Crossing Boundaries and Disciplines

Session/Time/Location: 1D, 10:10-10:30 am, Rush 124

Abstract: This project benchmarked a Floristic Quality Assessment (FQA) performed at Settlers' Field against FQA results at Deerfield Hills Natural Area to determine if Settlers' Field is representative of high-quality prairie habitat worthy of conservation. Species at each site were sampled via three randomly placed 3x3m quadrats and photography. Compared to documented prairie at Deerfield Hills, Settlers' Field generated a lower total mean coefficient of conservatism (C), a lower adjusted floristic quality index (FQI), and a distribution of species' C scores that was skewed further left. Settlers' Field also displayed more evidence of disturbance with a greater percentage of non-natives and woody shrubs and trees. However, a Mann-Whitney U Test revealed the difference in species' C between sites to be statistically insignificant. Furthermore, the difference in adjusted FQI between sites does not differentiate their rating of natural quality as defined by regional FQA literature review. Therefore, it was concluded that Settlers' Field should not be distinguished from tall-grass prairie by FQA metrics alone. Settlers' Field is potentially representative of native tall-grass prairie remnant, although disturbed to a much greater extent than Deerfield Hills. Future FQA's should strive to document species across all growing seasons to develop a more robust FQA with more samples, but a seasonally limited FQA was still a useful tool for obtaining valuable information on the area's natural quality. Settlers' Field may offer an opportunity for prairie restoration as a community recreational activity or in concert with ongoing development of the park's amenities.

Hannah Roty; Naomi Wong

Two-part Inventions By Pete Ford

Mentors: Pete Ford

Ribbons: Crossing Boundaries and Disciplines

Session/Time/Location: 1E, 9:30-9:50 am, Downs Hall

Abstract: J.S. Bach (1685-1750) composed a series of fifteen “two-part inventions” between the years 1720 and 1723. These pieces were written in a series of ascending major and minor keys, starting with C major. Bach’s two-part inventions are short pieces, originally conceived for keyboard. They emphasize two “voices” (single lines of music, one right hand, the other left hand) that communicate back and forth equally in a musical dialogue. Most of them are organized in a nascent form of “exposition, development, and recapitulation,” but more specifically labeled as “opening section, developmental section and closing section.” The opening introduces a short melodic motive that will be immediately echoed by the other voice. After a short bit of dialogue, the developmental section will continue their musical conversation in a variety of closely-related major and minor keys. The closing section features a return of the opening motive in its original key at the end of the piece. Two-part inventions are most commonly played on the piano. One of Adrian college’s own professors, Pete Ford, has composed a series of his own two-part inventions in imitation of Bach. Today Naomi Wong and Hannah Roty will present their own instrumental adaptations of (2-4 of Pete Ford’s 2-part inventions to be named), played in their unique instrumentation of double bass/viola string duo. Naomi’s viola plays the keyboard’s right hand “voice,” while Hannah’s bass plays the left hand “voice.”

Briyanna Wilson

Black American Composers on the Classical Concert Stage

Mentors: Kristin Clark

Ribbons: Caring for Humanity and the World, Developing Creativity, Thinking Critically, Crossing Boundaries and Disciplines, Learning Throughout a Lifetime

Session/Time/Location: 1E, 9:50-10:10 am, Downs Hall

Abstract: The contribution of black American composers is well known in the spheres of popular and sacred music such as jazz, R&B, gospel, and spirituals. However, there has been an undeniable neglect of works by black composers on the concert and opera stages in America. While social malady and injustice have caused many of these works to be buried or unpublished, there is in fact a treasure trove of art songs and arias that display equal creative excellence to many of the works the classical world celebrates. Through this presentation, I will explore classical songs for soprano and piano written by black American composers. I will present biographical information on the composers, as well as perform a handful of their songs. Through this, I aim to spread awareness of this repertoire, as well as provide a lens into the creative talents and historical contributions of the black American composers who paved the way toward greater diversity in the world of classical music.

Josephine Brown

Josephine Brown's Junior Recital Preview

Mentors: Kristin Clark

Ribbons: Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 1E, 10:10-10:30 am, Downs Hall

Abstract: For Ribbons of Excellence day, I would like to do a sneak peek performance of my junior recital. I want to perform 4 songs total, a French, Italian, German, and English song to showcase the different musical styles and languages I will perform in my recital. The songs I am considering performing from my repertoire are Reflection, Lied der Mignon, La Vie en Rose and Non t'amo Piu. I will need my accompanist, Wendy Rickard, and a stage to perform on. The performance should last around 13 to 15 minutes. I would prefer to present in Spencer Hall or Dawson Auditorium. I would be excited and honored to share my musical progress with the Adrian College Community. Please let me know if there are any questions!

Emily Little

From Laboratory to Newsroom: Science Journalism in the 21st Century

Mentors: Renee Collins

Ribbons: Developing Creativity, Crossing Boundaries and Disciplines, Learning Throughout a Lifetime

Session/Time/Location: 2A, 10:45-11:05 am, Jones 110

Abstract: As scientific discovery becomes more and more prominent in society, it is important to relay this information to the general public in a meaningful and understandable manner. Science journalism rose as a field of study to take complicated research and make it accessible. Through this presentation, the audience will learn about what makes a good science journalism piece and how writers grab attention in their articles. This will use several articles as examples from Scientific American, Nature, and other similar publications.

Kylee Doty

Letters Project

Mentors: Christy Mesaros-Winckles

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 2A, 11:05-11:25 am, Jones 110

Abstract: Author: Kylee Doty (Graphics Illustrator: Myles Westerhof) Abstract: Letters Project is a compilation of research on human emotion coupled with anonymous letters that have been sent to me by various contributors that has been made into a book. Submission was open to everyone, and contributors were asked to write a letter to anyone about anything. Contributors were kept anonymous by me, and agreed to have their letters published in this book. The only rule is no specific names, but titles are okay. I did, however, end up making one exception to this rule. There was not a limit on how many letters could be submitted by a single contributor. There are four chapters: Hurt, Happy, Letters to Myself, and Reflection within which coinciding letters have been separated and titled.

Helena Mazzarella

Travel Writing's Impact on Society

Mentors: Bethany Shepherd

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 2A, 11:25-11:45 am, Jones 110

Abstract: The purpose of this presentation is to examine the discourse that revolves around travel writing. I will be exploring the different genres involved in travel writing and how these genres contribute to the writer's purpose. Additionally, I will seek to understand the relationship between the purpose of the writer and the influence on the audience. For some, travel writing may strictly be a way to share their experiences with the public for informational and planning purposes. For others, travel writing may be a means of self-expression and identity. To the reader, travel writing may similarly be a means of identity. For people who cannot leave their current residence, travel writing serves as an approach to "see the world" in a more financially and physically feasible way. Travel writing has the power to enrich the cultural views of societies beyond our own. In a time where it has become increasingly evident that there is a need for understanding different cultures, communities, and environments, travel writing may be the step towards uniting the world as a harmonious society.

Sara Wallace

The Savage Effects of Global Warming: How Heat Influences Aggression in the City

Mentors: Jeffrey Lake

Ribbons: Thinking Critically

Session/Time/Location: 2B, 10:45-11:05, Peelle 207

Abstract: Increasing atmospheric carbon dioxide concentrations have been leading to substantial changes in the global climate. Much of this has shown up in increased temperatures, particularly in urban heat islands, including extended periods of anomalously high temperatures. While the environmental and natural disaster implications of climate change have been extensively explored, there also may be impacts on human behavior, notably in the form of increased aggression during extended heat waves. This study explores how heat influences aggression, and how this may lead to increased rates of murder and non-negligent manslaughter, violent crime, and aggravated assault. By analyzing official crime and weather data, dating from 1995 to 2019 for six selected cities across the United States, we were able to show a positive correlation between increased periods of high temperature and increased rates of murder and non-negligent manslaughter. Analyses such as these highlight the many critical consequences of climate change and increase the urgency of action.

Claire Brovold

Subsidence in Adrian, Michigan

Mentors: Sarah Hanson; Thomas Muntean; Jeffrey Lake

Ribbons: Thinking Critically

Session/Time/Location: 2B, 11:05-11:25 am, Peelle 207

Abstract: In the late 1990's, city officials in Adrian, Michigan were concerned about the quantity and quality of the water in the city. These concerns prompted officials to find an alternate source of municipal water, resulting in installation of groundwater production wells west of Hamilton Highway and North of US-223. It was hypothesized that overpumping of groundwater may be causing subsidence in Adrian surrounding the production wells. This could be true if the water is being pumped upstream from groundwater flow direction, or if the study area is located within the production well cone of depression. This hypothesis was tested in two parts. Part one measured the gap between the ground surface and the bottom flange of fire hydrants in the study area. This showed the greatest gap paralleling the topography from northeast to southwest. Any outliers are believed to be from erosion, landscaping, or construction. Part two analyzed well log data from the MDEQ database to determine groundwater elevation (GWE) throughout the study area. Two contour maps were created showing GWE before and after production well installation which showed both an increase and decrease in GWE after the production wells were installed. The conflicting data may be from wet/dry years, the proximity of wells to surface water, and/or fast aquifer recharge. These results suggest that subsidence may be occurring in Adrian on a small scale. However, due to a lack of data from wells installed after production well installation, more data are required to fully evaluate the hypothesis.

Taylor Sinclair

A Sustainable Alternative - Grass Paper

Mentors: Jeffrey Lake

Ribbons: Caring for Humanity and the World

Session/Time/Location: 2B, 11:25-11:45 am, Peelle 207

Abstract: The use of wood pulp to create paper is a relatively new technique to the world, and currently is the primary source for paper making (Pahkala et al. 1999). Unfortunately, forests universally are experiencing detrimental effects such as the recent forest fires and the current pandemic. It will take decades for the forests to recover, so the goal of this experiment was to create paper out of grass and determine if it would be a sustainable alternative. To determine if grass alone would make sufficient paper, separate trials of mixing grass, corn leaves, and dryer lint occurred. Materials were chosen based on their sustainability and strength quality. Six trials with various combinations of the three materials ensued, with grass always present in each sheet. The amount of time, water, and materials were recorded during each trial. To determine the papers quality, the papers tensile strength, writability, and texture were analyzed. It was concluded that grass can successfully create paper and as more grass was present, the stronger the paper was. Lint was not an ideal additive to the paper due to the complexity of prepping it and its weak abilities to coalesce. The corn leaves were not preferred either. Although the fibers were strong, they caused the paper to shed and was hardly writable. To conclude, grass would be an exceptional option to create paper. If paper were made from grass instead of trees, grass paper would likely be better than current practices.

Kevin Clipper

The Thucydides Trap - Tale of Two Cities: Washington and Beijing

Mentors: Philip Howe

Ribbons: Caring for Humanity and the World, Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: 2C, 10:45-11:05 am, Knight Auditorium

Abstract: Two and a half thousand years ago, as the Peloponnesian War was raging, the Athenian historian Thucydides offered a powerful insight: "It was the rise of Athens and the fear that this inspired in Sparta, that made war inevitable". Others identified many factors that contributed to the cause of the conflict, but Thucydides went to the core of the matter, focusing on the inexorable, structural stress caused by a rapid shift in the balance of power between two rivals. Thucydides identified two key drivers of this dynamic. The first, the rising power's growing entitlement, sense of its importance, and demand for greater say and sway. The second was the fear, insecurity, and determination to defend the status quo this causes in the established power.

The Thucydides's Trap refers to a situation "when one great power threatens to displace another, war is almost always the result". Today we are able to observe a Thucydides Trap developing between the United States and China. Due to China's historical, cultural, and ideological background, it is not similar to the West, will not submit to the American led world order, and has the potential to change the world in profound ways. This, along with its economic power, which has the ability to translate to military power, rising to the point where it challenges the United States, suggests that China is a rising power threatening the position of the United States' role as the world's established power and the world order it has created.

Kevin Clipper

The Shandong Question: China's Search for International Partners in the Early 20th Century

Mentors: Terry Jackson

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically

Session/Time/Location: 2C, 11:05-11:25 am, Knight Auditorium

Abstract: Despite much of the academic discussion surrounding the Paris Peace Conference in 1919 and the formation of the post-World War I world, one matter that has received less attention is the issue of the Shandong Question. Taken as a concession from China by Germany in 1898 and occupied by Japan in 1915, the Chinese emphasized the return of the Shandong Province in the years leading up to the end of World War I. However, the fledgling and politically unstable Republic of China, which was beginning to descend into the division and chaos of the Warlord Era, needed the aid of a great power to allow its interests to be voiced, eventually turning to the United States. Using memoirs of Chinese and American diplomats, diplomatic correspondence to and from the Chinese and American governments, and Chinese newspaper articles, this paper intends to examine what motivated the Chinese to seek the diplomatic aid of the United States during the Paris Peace Conference. The analysis of this matter finds that China sought the aid of the United States due to the United States' growing geopolitical position in the Pacific and rising status as a global power. Additionally, the Chinese saw ideological commonalities between the two nations and already held a relatively friendly relationship with the United States. Merging these motivations, it appears the Chinese government believed that the United States would be the most significant power that would be sympathetic to the Chinese cause.

Sydney Foster

Victorian Women and the "City of the Sultan"

Mentors: Deborah Field

Ribbons: Caring for Humanity and the World, Developing Creativity, Thinking Critically, Crossing Boundaries and Disciplines, Learning Throughout a Lifetime

Session/Time/Location: 2C, 11:25-11:45 am, Knight Auditorium

Abstract: During the Victorian Era, the British Empire was expanding its influence into the Ottoman Empire, increasing the public's interest in the "orient." Due to their secrecy, harems were of particular interest; men were not allowed inside, leading to an abundance of erotic harem fantasies. English women with the means to do so traveled to these harems, with some publishing travel narratives about their trips. Their depictions of the harems changed as the genre grew and women's rights evolved. Reviews of narratives and periodical literature provide information about women travelers and more broadly ideas about women's roles. I argue that, while Victorian ideals specified that a woman's place was in the home and that proper women's sexuality should remain hidden, the reviews and success of these books reveal a more complex viewpoint in practice. In addition, these women revealed their own opinions on women's rights and roles at home through their analysis of what they saw and the biases they revealed, even when they stated that they were trying to leave their western prejudices behind. Even today we must recognize the contrast between our ideals and our reality, and that our view of others is shaped by our own lives.

Jenna Moreno

The Quality of Cardiopulmonary Resuscitation Skills in Athletic Trainers

Mentors: Tina Claiborne, Darryl Conway, John Goetschius

Ribbons: Thinking Critically

Session/Time/Location: 2D, 10:45-11:05 am, Rush 124

Abstract: Context: Sudden cardiac arrest (SCA) is the leading cause of death in young athletes. Quality CPR and early defibrillation are essential for the survival of SCA. In the field of athletic training, it has not yet been established whether the current training and recertification requirements are sufficient for skill retention. There is some evidence that visual feedback is a valuable training tool, yet unclear how it compares with standard training using a low fidelity manikin. Objective: The purpose of this study was to 1) examine whether athletic trainers are proficient in performing CPR per AHA guidelines, and 2) to determine whether CPR practice using a visual feedback manikin results in better CPR performance when compared with a low fidelity manikin. Design: Pre-test, post-test experimental design. Setting: Southeast Michigan and Northwest Ohio Participants: A total of 44 practicing athletic trainers Interventions: Following informed consent, participants completed a survey and were randomized into two groups: Visual Feedback (VF) or Low Fidelity (LF). Participants were pre-tested during one, two-minute cycle of CPR. After, each participant practiced up to 5 minutes on a VF or LF CPR manikin. After a two-minute rest, participants' CPR performance was tested again. Main Outcome Measures: A 2 x 2 ANOVA will compare compression depth and rate between groups and across time. A chi-squared test will also be performed to correlate CPR quality with the practice mode (VF, LF). Results: This is an ongoing study; results will be completed by presentation date.

Emily Haas

Effects of Blood Flow Restriction on Muscle Activation during Static Single Leg Balance in Individuals with Chronic Ankle Instability

Mentors: Erin Burkholder

Ribbons: Learning Throughout a Lifetime

Session/Time/Location: 2D, 11:05-11:25 am, Rush 124

Abstract: Context: Decreased muscle activation is common among patients with chronic ankle instability (CAI). Blood flow restriction (BFR) has been shown to increase muscle activation during exercise, enhancing muscle adaptations in ankle rehabilitation exercises. Previous research has focused on dynamic and functional activities; however, there is no evidence examining the effect of BFR on muscle activation during single leg balance in CAI patients. Objective: Examine the effects of BFR on muscle activation Design: Cross-over study design Setting: Laboratory setting Participants: 24 young adults with CAI Interventions: Participants performed 4 sets (60s, 30s, 30s, 30s) of static single leg balance with eyes open during two conditions, BFR and control. For BFR, a cuff was applied above the knee at 80% of arterial occlusion pressure. For control, the cuff was worn but not inflated. Main Outcome Measures: Anterior tibialis, fibularis longus, soleus, and vastus lateralis electromyography muscle activation. Ratings of perceived exertion and stability were also recorded during exercise. Results: Pending Conclusions: Pending

Jessica Ryder; Robert Nowik; Neysa Miller

Analysis of Blood Vessel Patterns Using Statistical Methods

Mentors: Marti Morales-Ensign; Dorin Dumitrascu

Ribbons: Thinking Critically, and Crossing Boundaries and Disciplines

Session/Time/Location: 2D, 11:25-11:45 am, Rush 124

Abstract: Adequate blood flow is essential for gas exchange, healing damaged tissues and delivering pharmaceuticals to the correct location in the body. It has been proposed previously that branching slows down the rate of blood flow for the purposes of gas exchange in the capillary. Wilhelm Roux, a zoologist from the 19th century, observed some relationships between vessel diameter and bifurcation angles. John A. Adams (2011) proposed equations describing the branching patterns observed by Roux and discussed the implications of vessel structure and hemodynamics. We took more photos of vessels and used GeoGebra to measure the diameters and bifurcation angles. Then we performed a statistical analysis that compares this actual data of bifurcation angles to the theoretical model, as it applies to the heart. This research expands the research of former Adrian College students Rachel Wathen, Ashely Oram, and Gabe Lopez. Our work embodies the ribbons of "thinking critically" and "crossing boundaries and disciplines."

Kinza Parker

Kinza Parker, Acting Recital Presentation

Mentors: Annissa Morgensen-Lindsay

Ribbons: Developing Creativity

Session/Time/Location: 2E, 10:45-11:05 am, Downs Hall

Abstract: Kinza Parker will be showcasing her learning experience at Adrian College with excerpts from her Capstone Recital at the Ribbons of Excellence Day event.

This Capstone demonstrates her accumulative skillset, from the development of her physical and vocal qualities to her analysis abilities used to interpret text. She will take the audience on a journey through several monologues and scenes, each from a different time period and movement of theatre. Parker will employ the Developing Creativity Ribbon of Excellence in the role of actor, through her own unique interpretation of character and engaging the imagination of the audience. In her performance, Parker focuses on personal challenge through diversity of character and text. With an exploration through gender, genre, and motivation, she tests the limits of her abilities and goes far beyond her traditional casting type.

RaSheiah Asare

The Evolution of Eras: A Musical Theatre Experience

Mentors: Annissa Morgensen-Lindsay

Ribbons: Learning Throughout A Lifetime

Session/Time/Location: 2E 11:05-11:25 am, Downs Hall

Abstract: Throughout this Ribbons of Excellence presentation, RaSheiah will be discussing the evolution of musical theatre. Musical theatre is learning throughout a lifetime. This is because the sound of music itself within musical theatre is ever changing through different time periods. This includes the style, diction, characteristics of the music. This presentation will be presented in the form of a

showcase of songs that will also be presented in RaSheiah Asare's senior recital. We'll take a walk through time for Golden Age music to the Contemporary music we love today. Some of the songs included will be "I Can Cook Too" from On the Town, "Mean To Me" from Ain't Misbehavin', and "Pulled" from The Addams Family. Songs:

• Once You Lose Your from Me and My Girl • I Can Cook Too from On the Town • Mean To Me from Ain't Misbehavin' • He's No Good from The Life the musical • Pulled from The Addams Family the musical

Chelsea Bruno

Understanding The Offensiveness of Sexist Humor and How it Relates to Beliefs About Women

Mentors: Amy Hillard

Ribbons: Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: Ambivalent sexism theory helps explain disparate attitudes toward women, including overt, negative attitudes (i.e., hostile sexism) and seemingly positive if patronizing stereotypes about women (i.e., benevolent sexism). Sexist humor can communicate ambivalent attitudes and cause discrimination against women (Ford et al., 2008). Though women are more offended by such humor than men (e.g., Lawless et al., 2020), hostile and benevolent sexism (Greenwood & Isbell, 2002) and cavalier beliefs about humor are related to perceiving sexist humor as less offensive for men and women (Prusaczyk & Hodson, 2020). The current study examines whether participants' expressed understanding of the offensiveness of sexist humor is related to ambivalent sexism and acceptance of traditional gender roles. Undergraduate students (N = 48) were exposed to a series of jokes and were asked to write a one page essay explaining why someone may find these jokes offensive. Participants then completed measures of hostile and benevolent sexism, acceptance of traditional gender roles, evaluations of the joke-tellers, and feelings toward social groups. Participants' essays about why someone might find the jokes offensive were analyzed for qualitative themes. Mixed methods analysis will be conducted by examining the predictors of and outcomes related to these themes. We hypothesize that the participants who are dismissive of the offensiveness of sexist jokes will be more likely to endorse ambivalent sexism and have traditional gender role beliefs. Data analysis is ongoing. As a mixed-methods research study, this project involves both thinking critically and crossing boundaries and disciplines.

Emily Baldus

The Use of Musculoskeletal Ultrasound in Assessing the Supraspinatus Muscle

Mentors: Victor Liberi

Ribbons: Thinking Critically

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: Background: The supraspinatus is one of four rotator cuff muscles. Its main function is to abduct the shoulder, and assists in the dynamic stabilization of the glenohumeral joint. Musculoskeletal Ultrasound (MSK US) is typically used by non-radiologists to evaluate musculoskeletal and soft tissue structures. MSK US can be used to determine Cross Sectional Analysis (CSA) of muscle in response to exercise. Methods: Various techniques have been evaluated to measure the CSA of the supraspinatus both statically and dynamically. The purpose of this preliminary study was to determine the most accurate and acceptable practice to measure the CSA of the supraspinatus using MSK US. Results: There is not one definitive method for measuring CSA. The use of superficial locations for CSA supraspinatus measurements are mentioned in literature and throughout this meta-analysis. However, sonographic locations for precise measurements are not well defined for obtaining CSA measurements of the supraspinatus. Discussion: There are various techniques in measuring the CSA of the supraspinatus. Through a meta-analysis, this study determined that each of the techniques had success in determining CSA differences through MSK US. However, despite the reported success at measuring the CSA of the supraspinatus, interestingly, determining the proper location to measure CSA is still minimally defined in research.

Kelsey Edwards

Kelsey Edwards: Stage Managing The Moors

Mentors: Annissa Morgensen-Lindsay

Ribbons: Thinking Critically

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: When you walk into a theatre the audience sees a set, the house lights are on and no one is to be seen. When the show starts the actors are seen and heard, but what keeps everything else going. Who makes sure props, lights, scenic parts, and sound is coming up on the right part. This is the job of the stage manager.

A stage manager uses all of the ribbons of excellence when doing the job. As a stage manager, they have to be caring which strikes the humanity ribbon. The stage manager learns throughout a lifetime they are always learning something new each day. They also have to think critically about everything that goes into a show and how it should work. The stage manager is always crossing boundaries and disciplines in order to help actors or coworkers. Lastly, the stage manager develops creativity in order for a show to run smoothly they have to be creative and think critically. Kelsey Edwards will be showing how all this comes together in a poster project.

Kayla Hemphil

Costume Design: The Moors by Jen Silverman

Mentors: Dr. Annissa Morgensen-Lindsay

Ribbons: Developing Creativity

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: Kayla's goal for her research was to develop an effective costume design for *The Moors* based on historically accurate dress and character traits displayed within the play. In order to achieve the goal of historical realism she looked to several books and websites for visual references and construction guides. She also completed three read-throughs of the play: one for enjoyment, one for a deeper understanding, and one to take detailed notes on important character traits. This research was important for her theatrical costume design because the costumes needed to reflect the literature and the overall design concept for the production. Kayla had to think critically to find an effective middle ground solution for each character design. She also crossed boundaries and disciplines to look at multiple factors including history, the fashion industry of 1840s England, and play analysis. Effective collaboration and communication were vital elements of Kayla's research since she needed to have a good understanding of the director's concept in order to fully develop her own cohesive concept statement. Through working with both of these conceptual ideas, Kayla's goal was ultimately to create a design that would compliment and enhance the message the director was seeking to portray.

Elliott Edsall

Media Influence and its Effect on Political Awareness

Mentors: Christie Boxer

Ribbons: Thinking Critically

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: Study 1 of this project aims to examine the association between political ideology and political awareness. Additionally, an investigation of how news consumption affects those two variables is examined. Data comes from a self-administered survey with responses consisting of Adrian College Students. Study 2 will examine qualitative aspects of news content to understand the differences in political awareness based upon political ideology. Together, the objective is to understand how differences in political news presentations affect political awareness.

Nicole Olson

Media Influence on American Perception of Gun Control

Mentors: Christie Boxer

Ribbons: Thinking Critically

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: This research will determine the effect social media has on Americans' perception of gun control laws in the United States. The study will be based on the ideas of Social Learning Theory, drawing on the idea that humans learn by watching what goes on around them and aim to replicate the actions of others. The main questions of this research study are as follows: How does news media influence Americans' thoughts on gun control laws? Do the biases that exist in the media play a role in shaping the legislation they wish to see passed through Congress? This study aims to look at various news sources with different political biases and determine whether or not viewers learn from the news and their opinions are shaped by what they see. According to Social Learning Theory, humans learn through watching one another, so it is expected that viewers will be influenced by both their experience and the media that they consume. Viewers will be asked to watch a news clip regarding gun control legislation due to increased gun violence in the United States and then participate in a survey of their opinion on said gun control legislation. It is expected that those on the extreme ends of either side of the political spectrum will not be swayed by the news clip despite the bias, however those that are more moderate will likely learn and conform their view according to the news clip they consume.

Abby Tourison

The Effects of Feminist Attitudes on Stereotype Threat

Mentors: Stacey Todaro; Janet Pietrowski

Ribbons: Developing Creativity

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: Stereotype threat is a heavily studied psycho-social threat experienced when an individual does something related to a stereotype about their group. While women have consistently shown to be more susceptible to stereotype threat than men, studies indicate that men can experience stereotype threat when the task relates to a stereotypically “feminine” trait. Literature assessing feminist attitudes suggests that women are more likely to identify as feminist than men. The present study investigated how college students reacted to a written social scenario after being exposed to an internet meme depicting a negative stereotype about masculinity. Participants’ feminist attitudes were also analyzed to identify any moderating effects feminist attitudes had on stereotype threat. This is the first study to examine this potential relationship. Additionally, the study examined current feminist attitudes among college students with a feminist attitudes scale. The results confirmed two of the author’s hypotheses, demonstrating that 1) students primed with the threat meme reported being less likely to intervene in the social scenario, and 2) female students reported more positive feminist attitudes from the feminist attitudes scale. However, feminist attitudes did not moderate the students’ responses to the different internet memes. Students with higher feminist attitudes reported higher intervention rates whether or not the threat was present. These results suggest that messages expressing negative attitudes towards men may increase ill behavior towards women or tolerance towards it. Conversely, more positive feminist attitudes may reduce negative behavior towards women and the chances of demonstrating stereotype threat.

Ethan Garcia

Rap Music’s Influence on Violence

Mentors: Christie Boxer

Ribbons: Thinking Critically

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: My research will study how rap music influences violence. I will do a content analysis of approximately fifty songs from six to eight different rap albums. The music will be from this decade. From each song, I will search for a variety of items. The first item will be what kinds of acts the artist mentions. The second will be how many times the artist mentions acts of violence. I will then give my own interpretations of their music and how I believe this song can influence a listener to commit acts of violence. After my own interpretations are written, I will give an objective analysis of what the song is about. This information will be gathered from interviews and opinions from the artist themselves. The biggest criminological theory behind this research is the social learning theory. When people listen to music for a long period of time, they begin to really listen and learn on what the music talks about. People listen to music when they do tasks because it fuels their drive. If you listen to music that talks about violence frequently, the lyrics will begin to embed themselves in a person’s head, leading them to violent behavior. I expect to find that people are more influenced to inflict violence when the music they listen to has lots of excerpts containing acts of violence.

Victoria Poland

How Students with Disabilities are Impacted by Accessibility in Their Pursuit of Education

Mentors: Christie Boxer

Ribbons: Crossing Boundaries and Disciplines

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: This project will be based on social learning theory. I will analyze the book, *Disability Discourse* by Mairian Corker to gain an understanding of the interactions between students with disabilities and their classroom experiences. The analysis of this book will allow me to present my findings, encourage people to learn from these interpretations, and determine how accessibility may impact students in the classroom. The research question presented in this study will be how students with disabilities are impacted by accessibility in their pursuit of education. To understand this research it is essential to recognize the following concepts, disability, and accessibility. Patterns that show as more students with disabilities are equipped with the proper resources they will be more successful in the pursuit of their education, will be evident. I expect to find a relationship between the student's love of education and the amount of accessibility they have in their classrooms. In addition, there will be a relationship between the student's success academically, socially, and physically to the involvement of the guardians in their lives. This would relate because the guardians would be able to remain active in their student's lives to help make sure that they succeed. There may also be a connection between the student's overall success and the wealth of their family. This may be for several reasons, relating to the district their school is in, the involvement of the family, and the resources the child has access to.

Kasimir Oganowski; Mark Henderson

Evidence for the Role of Allopregnanolone in Neonatal Maladjustment Syndrome Calves

Mentors: Ben Pawlisch

Ribbons: Caring for Humanity and the World

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: Neonatal Maladjustment Syndrome (NMS) has been researched in neonatal foals, although it has been observed in calves and camels. The symptoms of NMS can be seen within the first 72 hours of birth as the newborn has issues with nursing, standing, unresponsiveness, and there are elevated levels of progesterone metabolites such as allopregnanolone. The exact mechanism is unknown, but it is proposed that trauma during birth causes NMS. Previously, progesterone was studied to determine if the levels of the hormone impact the adjustment period for neonatal calves. There was no significant relationship between progesterone and the ability for calves to stand and nurse over a 48 hour period. We will be looking at levels of allopregnanolone in healthy and NMS like calves. It is thought that the Allopregnanolone influences the effects of GABA, an inhibitory neurotransmitter, on the nervous system causing the health defects in the calves. To test these samples for allopregnanolone, an Enzyme-Linked Immunosorbent Assay (ELISA) will be used. The ELISA plate wells are lined with antibodies specific for allopregnanolone, so the levels can then be quantified. It is hypothesized that there will be a drop in allopregnanolone levels of the active calves and the levels will remain elevated in the slow calves. The goal of the study is to develop a clinical tool for veterinarians to diagnose NMS.

Spencer Furlich

Understanding Factors that Contribute to Sleep Quality Among D3 College Athletes

Mentors: Stacey Todaro

Ribbons: Crossing Boundaries and Disciplines

Session/Time/Location: Poster Session, 1:00-2:00 pm, AT Room

Abstract: There is a plethora of research to suggest that sleep is an important component of one's overall health and well-being. In college students, sleep quality has been shown to be positively correlated with academic performance and mood (Bolin, 2019; Okano et al., 2019). Unfortunately, not all students are getting an adequate amount of sleep (Buboltz, Brown, Soper, 2001). Thus, the goal of this research was to examine factors that influence sleep quality among college students, and in particular, Division III student-athletes. It was hypothesized that psychological variables, like anxiety would be negatively correlated with sleep quality as would bedtime routines, such as using a cellphone before bed.

Ronda Tuberville

Hikaru Dorodango Art as Vessel of Learning

Mentors: Travis Erxleben

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: Meet the Artist, 1:00-2:00 pm, Shipman Library

Abstract: Learning from Art we can study History, culture, environmental science and even psychology. Hikaru Dorodango or shining balls of mud can give insight into Japanese traditions and history, Japanese teachers use dorodangos to teach children about geology while phycologist study the children creating the shiny dorodangos.

Art has a way of preserving the past and passing traditions to the next generation.

We use art to learn history and other cultures. The creating of the dorodango during early school years is a tradition that has been happening as far back as anyone can find in Japan. Art using clay can also be used as a way of learning about geology.

The process of creating the Dorodango starts with crushing of mineral rocks into a fine powder, combining them together adding water to the minerals. Using bare hands, you then take the clay mud compressing it and form a ball. Slowly adding dry minerals, wet clay minerals, and air drying a sphere is formed. During the process of creating a dorodango I can feel just a calming wave as I get lost in the rotations to form the sphere this feeling of ease continues from start to finishing the shining process. In Japan a developmental psychologist has been looking into the behavior of the children as they create their own dorodango. Hikaru Dorodangos is a creative artistic way to teach young children and study the journey they go through during the calming process. Art is an extremely import tool for education.

Allison Zyzelewski

The Influence of Psychological Factors on Proper Hand Hygiene in Athletic Trainers

Mentors: Tina Claiborne; Tyler Harris

Ribbons: Caring for Humanity and The World

Session/Time/Location: 3A, 2:00-2:20 pm, Jones 110

Abstract: Context: Hand Hygiene is recognized as the easiest and most effective method of preventing the spread infection. Research supports that healthcare workers, including athletic trainers are unaware of proper hand hygiene technique resulting in compliance rates below 40 percent. The Theory of Planned Behavior (TPB) has been used to better understand hand hygiene intentions demonstrated by healthcare workers. TPB concludes that individual behavioral intentions are influenced by attitude, subjective norms, and perceived behavioral control thereby predicting behavioral achievement. Objective: The purpose of this study was to examine the effect of attitude, subjective norms, and behavior control on athletic trainers' intentions to perform proper hand hygiene. Design: Cross-sectional survey Participants: Practicing athletic trainers Main Outcome Measures: Three separate binary logistic regressions ($P < 0.05$) were used to determine the influence of attitude, subjective norms, and perceived behavioral control on athletic trainers' intentions to perform proper hand hygiene. Results and Conclusions: This study is ongoing; results and conclusions will be completed by presentation date.

Infinity Rogers

Master's Thesis: The Effect of Hip Abductor Fatigue on Balance as Measured by the SWAY® Balance Mobile Application

Mentors: Victor Liberi

Ribbons: Thinking Critically

Session/Time/Location: 3A, 2:20-2:40 pm, Jones 110

Abstract: Master's Thesis: The Effect of Hip Abductor Fatigue on Balance as Measured by the SWAY® Balance Mobile Application Thesis Advisor: Prof. Victor Liberi Graduate Student: Infinity Rogers, BS Thesis Committee Member: Dr. Timothy Rotarius Context: Balance is the ability to maintain a stable center of gravity over a base of support. Muscle activation is required to maintain that stability, when muscles become fatigued, stability is affected. Objective: The purpose of this study was to compare balance measures before and after a fatigue protocol of the hip abductor muscle, Gluteus Medius. Design: Pretest-posttest study design Setting: Adrian College Human Performance Lab Participants: College-aged individuals without current lower extremity injury or conditions which affect balance. Interventions: Participants completed two visits separated by at least 72 hours. At each visit, balance was measured using the SWAY Balance Mobile Application before and after fatiguing the hip abductor muscle, Gluteus Medius. The Cybex Isokinetic Testing Device was used to fatigue the Gluteus Medius by performing five isometric contractions until 50% fatigued. Main Outcome Measures: The primary outcome was balance measures obtained from the SWAY Balance Mobile Application. The secondary outcomes included Ratings of Perceived Exertion (RPE) and Ratings of Perceived Stability (RPS) obtained using questionnaires. Results: TBD Conclusions: TBD

Caroline Fleming

Effects of Blood Flow Restriction on Center of Pressure During Static Single-Leg Balance Exercises in Individuals with Chronic Ankle Instability

Mentors: Erin Burkholder

Ribbons: Caring for Humanity and the World

Session/Time/Location: 3A, 2:40-3:00 pm, Jones 110

Abstract: Context: Chronic Ankle Instability (CAI) has been shown to constrain the sensorimotor system. Blood flow restriction (BFR) has been utilized to increase physiological demands of muscles and alter postural control during light exercise. Gaps in the literature remain regarding the effects of static balance and BFR on objective balance measures. The purpose of this study is to examine the effects of BFR on Center of Pressure (COP) during static single leg balance in college aged individuals with CAI.

Gage Dansby

The Narrative Paradigm in Kendrick Lamar's "To Pimp a Butterfly"

Mentors: Christy Mesaros-Winckles

Ribbons: Caring for Humanity and the World, Developing Creativity, Thinking Critically, Crossing Boundaries and Disciplines, Learning Throughout a Lifetime

Session/Time/Location: 3B, 2:00-2:20 pm, Peelle 207

Abstract: This text analyzes and interprets the meanings and messages incorporated within *To Pimp a Butterfly*, a Grammy award-winning album by Compton, California rapper Kendrick Lamar that has garnered an influx of critical praise since its release in March of 2015. *To Pimp a Butterfly* details Lamar's pitfalls and exploitation from the music industry before breaking free from his capitalistic oppressors so he can use his fame as a voice for the African American community.

More specifically, this analysis looks at how Lamar uses the Narrative Paradigm.

A theory coined by the University of Southern California professor Walter Fisher stating that human beings are at their core, storytelling creatures that communicate through narrative plots (Fisher, 1984). Lamar uses the Narrative Paradigm structures of coherence and fidelity, along with a paradigmatic narrative structure and incorporation of the Illusion of Life music theory to construct a cohesive story of self-reflection and criticism of the music industry and American society.

Kylee Doty

Inconvenient Woman

Mentors: Christy Mesaros-Winckles

Ribbons: Caring for Humanity and the World, Developing Creativity, Thinking Critically, Crossing Boundaries and Disciplines, Learning Throughout a Lifetime

Session/Time/Location: 3B 2:20-2:40 pm, Peelle 207

Abstract: Debord discusses this issue in *Society of the Spectacle* by detailing how the lives of celebrities are meant to showcase a type of lifestyle that appears perfect, and serves as a sort of entertainment for normal people. Pop/alternative superstar Halsey challenges the same perception of entertainment as Debord through her art and her life by being upfront and honest about the struggles that people constantly go through, but feel hesitant to reveal. This presentation will compare Debord's concept of society with Halsey's album *hopeless fountain kingdom* (2017) to critique the dominant popular narrative of art as spectacle and not a method of social protest.

Kaitlin Parisi

Women Aren't Just for Gazing

Mentors: Christy Mesaros-Winckles

Ribbons: Caring for Humanity and the World, Developing Creativity, Thinking Critically, Crossing Boundaries and Disciplines, Learning Throughout a Lifetime

Session/Time/Location: 3B, 2:40-3:00 pm, Peelle 207

Abstract: The purpose of this paper is to analyze Victoria's Secret use of the male gaze critical media theory in their advertising. I will be examining Victoria's Secret "The Perfect Body" campaign, as well as their fashion shows throughout the years. I will also be comparing Victoria's Secret to companies such as Aerie, who have a more positive outlook for customers. From body shaming, to feeling unhappy and unmotivated, it shows just how toxic advertising has become and the effects of Victoria's Secret models have placed on young and older women today. Women are not just for gazing, despite the labels society places on them. Women feel as though their bodies are ugly or not worthy in society, due to these stick figure models portraying a type of body many wish to have, but is unrealistic. There is no such thing as the perfect body and we dive into what the advertising world has done to our society to make people believe this is true.

Nathan Bielskis

Adapting Compositions to Fit Available Instrumentation

Mentors: Pete Ford

Ribbons: Developing Creativity, Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: 3C, 2:00-2:20 pm, Knight Auditorium

Abstract: In this presentation, a group of Onsted High School concert band students will perform a brass quintet composed by a student teacher/composition student from Adrian College. This piece, titled *Scenes from the Irish Hills of Michigan*, was originally composed for college-level musicians, and the parts needed to be streamlined and slightly simplified for successful performance by high-school musicians. Adapting more complex music to be performed by less-experienced players has been an important skill for composers and arrangers since the early days of music, and will continue to be a challenge for many years to come. Composers throughout history have had to alter their compositions for the musicians at hand. This session explores how a composition is adapted to fit available instrumentation and historically how composers have overcome this issue.

Kelsey Dupuis

From bibliotherapeutic texts to canon: how modern students need modern texts

Mentors: Dawn Milner; Vanessa Morrison; Michele Stansley

Ribbons: Learning Throughout a Lifetime

Session/Time/Location: 3C, 2:20-2:40 pm, Knight Auditorium

Abstract: If you attended a high school in the United States in the past 70 years, chances are you have read *Lord of the Flies*, *To Kill a Mockingbird*, *Catcher in the Rye*, and *Romeo and Juliet*, among many other "classics". The same is true if you step into any English classroom today; you will find students reading these same texts decades later. These out of touch books coupled with the ever-growing traumatized student population that attends schools, results in a severe lack of comprehension and willingness to comprehend the texts that are cemented into curriculums across the country. It is common knowledge that when someone is interested in something or can personally relate to something, they tend to be more invested in whatever that may be. The purpose of my research paper is to understand the best practices to incorporate modern bibliotherapeutic texts into a high school English curriculum.

Ashley Ray

The Impact of Physical Activity on Social and Emotional Development in the Preschool Classroom

Mentors: Dawn Milner

Ribbons: Caring for Humanity and the World

Session/Time/Location: 3C, 2:40-3:00 pm, Knight Auditorium

Abstract: This study suggests that allotted time for physical activity within the early childhood classroom has a positive effect on children's social and emotional development. This opposes the current practice of reducing physical activity access in preschool settings throughout North America, as well as the push for more academics-based curriculums. The author provides that information for correlations between physical activity and social and emotional development are plentiful for upper grades, but the literature is lacking for early childhood education. The author supports her argument with theory, data on student social and emotional development within her own classroom during times of reduced physical activity and similar studies. Opportunities for physical activity can potentially increase social and emotional competence, interaction with peers and adults, and academics.

Emma Harbaugh

Confronting the Silence that Follows Violence Against Women: A Creative and Analytical Response to "The Events of October" Murder-Suicide on a Small Campus

Mentors: Renee Collins

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Crossing Boundaries and Disciplines

Session/Time/Location: 3D, 2:00-2:20 pm, Rush 124

Abstract: My senior English capstone paper is an extensive analysis and creative response to a book written by Gail Griffin, a now-retired professor from Kalamazoo College. This book recalls the events that occurred on Kalamazoo's campus in 1999, where a young woman student was killed in her dorm room by her ex-boyfriend. This book not only breaks down in detail the relationship that these students shared but also works to confront a silence that our society has become far too comfortable within. Violence against women occurs on a daily basis, and without the work of people like Griffin, we will never see the day where women feel confident that they will never experience violence in a relationship. I respond in detail to Griffin's analysis throughout the book and use poetry to help navigate a narrative that is far too well-known for the general population of women. With this presentation, I am taking a step into a role that I know I am supposed to be in; someone who works actively against the toxic media and literature that inhabits the minds of men that believe violence is a viable option to turn to. This is my way of confronting the silence.

Karlie Acord

In 2021, I took an Epistolary Approach to the Inflection of Discourses: Bridging the Gap between Feminist Theory and Medicine

Mentors: Scott Elliott

Ribbons: Crossing Boundaries and Disciplines

Session/Time/Location: 3D, 2:20-2:40 pm, Rush 124

Abstract: This project demonstrates a relationship between feminist theories and various literary forms (namely, poetry, letters, and the essay) in an effort to bridge the gap between feminist theory and medicine. Through a deep analysis of the poem, *In 2006 I had an Oreal With Medicine*, by Bettina Judd, I delve into my personal connection to the piece through a personal essay crafted through a series of letters both to Judd and to other feminist theorists. My epistolary essay, like those of environmentalist Dr. Wall Kimmerer, non-fiction writer Eula Biss, and others, performs a connection between personal voice and theorized movements. In doing so, it connects feminist theory, particularly strands focused on lived experience, affect, and the body, to the discourses of science, medicine, and literature. By virtue of its epistolary form, my essay illustrates the fundamental importance of efforts to connect past feminist writings to both the present and the future, demonstrating that in order to promote forward movement there must be a conversation between diverse voices. Through this series of staged correspondences, I show how the discourses of the sciences, the humanities, and personal experience can mutually inflect one another and thereby create a shared space among these disciplines rather than a divide between them.

Sydney Foster; Katherine Jaeger

I Want You to Know: Survivors on Healing and Support After Sexual Assault

Mentors: Jennifer Towns

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, and Developing Creativity

Session/Time/Location: 3D, 2:40-3:00 pm, Rush 124

Abstract: Every 73 seconds, an American is sexually assaulted. Every nine minutes, that person is a child. Survivors and those supporting them often feel lost or helpless, unsure of what the "right" thing to do or say is. Sexual harm comes with a stigma that creates barriers to education and discussion, keeping some people from seeking the help they need. In this presentation, three survivors will start the conversation about healing from sexual harm and how to offer support. By sharing their knowledge and experiences, each presenter becomes stronger and moves forward in their healing process. Topics include how they continue to heal, what they needed from others, and available resources. You know someone that's been sexually harmed. It's time to start talking about it.

Benjamin Perone; Paige Quarandillo; Gabrielle Barksdale; Cameron Ertner; Anna Wozniak; Paszionique Kelly; Hannah Roegner

English Students Writing Showcase

Mentors: Carmen Curton; Renee Collins

Ribbons: Developing Creativity

Session/Time/Location: 3E, 2:00-3:00 pm, Valade 229

Abstract: Students in the English Department have worked hard all semester to shape their writing into thrilling, touching, heartbreaking, and hilarious poems and stories. Today they will read aloud the result of all of their hard work.

Hallie Bigman

The Emerging Field of Interpersonal Expressive Writing Therapy

Mentors: Bethany Shepherd

Ribbons: Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 4B, 3:15-3:35 pm, Peelle 207

Abstract: The field of therapy known as Expressive Writing Therapy is a newer field that has existed for about thirty years. It is a revolutionary field that deeply connects writing and psychology. This unique field is meant for anyone searching for a specialized type of therapy that is different from older, more traditional forms of therapy and has been proven to help with numerous mental and physical health challenges. Why does writing translate into health benefits? Why does writing about trauma help you feel better? There is a lot of research supporting that it does, beginning with the first peer-reviewed study in 1983 that links writing as therapy to a reduction in the need for intervention from healthcare workers. My project explores this field through my personal experiences. I conclude that the complex relationship between writing studies and identity formation is worthy of further study and holds great promise for helping people in the future.

Leah Scrantom; Giana DeRosa; Alexis Weston

Star Light Writing Award

Mentors: Joseph Walderzak; Alexandra Biedenbach; Chris Matsos

Session/Time/Location: 4A, 3:15-4:15 pm, Jones 110

Abstract: In Academic Foundations I (AF I), the first course in Adrian College's First-Year Core Curriculum, students practice the reading, thinking, writing, speaking, and research strategies they will need to be active and successful participants in their academic, professional, and civic lives. AF I focuses on questions that are central to students' daily lives, and aims to cultivate an ethic of inquiry that inspires students to live out each of the college's Ribbons of Excellence. The presentations in this session represent excellence in writing achieved during AF I. Faculty from many disciplines judged these research projects to be the best among all those nominated. One of these essayists will be further recognized with the Star Light Writing Award in continuation of the spirit of a past Adrian College prize, the Inter Society Contest, established in 1879 by two campus literary societies: the Star Literary Society and the Lambda Phi Society (whose symbol was a ray of light). Then, as now, judgment for the award is based upon "thought, arrangement, and rhetorical style."

Daisy Roberts; Gracie Jennings

Mahan Manuscript Honors Award

Mentors: Daisy Roberts

Session/Time/Location: 4A, 3:15-4:15 pm, Jones 110

Abstract: Established in 2016, the Mahan Manuscript Honors Award recognizes the best essays by Academic Foundations I students enrolled in the Adrian College Honors Program. These projects are the outcome of a semester-long process of inquiry-based writing and research on a topic developed by each student. Named for the first President of Adrian College, the Rev. Asa Mahan, this award honors the outstanding tradition of liberal arts scholarship Mahan instituted and particularly his rhetorical legacy as embodied in his published and unpublished works. Chief among these unpublished manuscripts is Mahan's diary, newly preserved and housed in the Shipman Library Archives, which details his time at Adrian College and outlines some of his most important moral philosophy—including his thoughts on the United States Constitution and his idea of "intrinsic worth"—the idea that all individuals regardless of race, class, or sex have inherent value that should be protected. Indeed, it is the aim and goal of a liberal arts education to prepare scholars and citizens who can articulate this ideal of intrinsic worth in the contemporary world. All of the essays nominated for this award in some way accomplish and embody this vision and for their contributions we honor them here.

Katherine Jaeger

The Clinician's Perceptions of the Effectiveness of EMDR Treatment for Past Interpersonal Trauma

Mentors: Jennifer Towns

Ribbons: Caring for Humanity and the World, Thinking Critically

Session/Time/Location: 4B, 3:35-3:55 pm, Peelle 207

Abstract: The prevalence of interpersonal trauma within our society is widespread and non-exclusive to a particular gender, sexual orientation, race, or ethnicity. The present study will focus on the clinician's perceptions of the effectiveness of Eye Movement Desensitization and Reprocessing therapy (EMDR), which is a psychotherapeutic technique used to help clients reduce the stress related to their trauma. Specifically, replacing negative cognitions created by the traumatic event by reprocessing traumatic memories in order to create new positive cognitions (EMDR Institute Inc, 2019). The goal of this study is to explore the experiences of clinicians who use this treatment modality to aid with the social and emotional functioning of their clients. The target population is clinicians who have been trained in EMDR and use this treatment in their practice. Semi-structured interviews were conducted to obtain information about their experience using EMDR treatment with their clients. Through the use of word mapping, using Dedoose software, the researcher will point out emergent themes within the data.

Taylor Anson

Rhetorical Interpretation, Family Law, and My Personal Experience: Is It Really in the Child's Best Interest?

Mentors: Bethany Shepherd

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: 4B, 3:55-4:15 pm, Peelle 207

Abstract: In family law, communication is complicated by subjective and value-based arguments. Drawing on previous research about the effects that courtroom proceedings have on children, families, and the legal system itself, I analyze various family law proceedings from an English Studies perspective. I find that rhetoric influences both court proceedings and judicial discretion based on the way in which court officials, specifically Judges, interpret the phrase "in the child's best interest." This key phrase is often found at the center of decisions in custody, separation, and support case proceedings. Finally, I reflect on my own personal experience, and how rhetorical interpretation applied to my legal case, impacting my own outcome.

Olivia Fox

COVID-19: Response by Michigan Universities and Colleges

Mentors: Philip Howe

Ribbons: Thinking Critically

Session/Time/Location: 4C, 3:15-3:35 pm, Knight Auditorium

Abstract: When it comes to determining the best policy to implement it boils down to limiting the amount of people a student is coming into contact with. The policies studied include: the learning format, fall athletics, on-campus residency and cases in county. Therefore, the best thing a college or university can do is encourage students to stay at home, attend virtual learning classes, and cancel athletic events. It is the accumulation of policies that ultimately leads to the overall effectiveness and successfulness of those policies. The more restrictive the policy the more likely it is to slow the spread of the virus; however, students may not always be responsive to over-invasive policies that take away their freedom. Colleges and universities should do their best to protect and keep their students, staff, and faculty safe from COVID-19. Since COVID-19 affected every country worldwide, there were different policies globally as well. States and provinces were able to create their own stipulations, and local governments were able to decide their own policies as well. There are a significant number of responses to analyze and reflect upon, so choosing which example to tackle is challenging. For years to come, it will be crucial to look back on the ways different colleges and universities within Michigan adapted to COVID-19. Hopefully, schools will be able to glean from other schools what policy is going to benefit the majority of individuals while preserving the safety and educational standard set for students.

Lydia Christian

Evaluating Levels of Satisfaction Among Graduate Students at Adrian College

Mentors: Jill Ouellette

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines, Developing Creativity

Session/Time/Location: 4C, 3:35-3:55 pm, Knight Auditorium

Abstract: There are many benefits as to why a collegiate institution may want to collect data regarding student satisfaction. Students who collaborated with their peers were also more likely to report higher levels of satisfaction (Gray, DiLoreto 2016). Students may be satisfied with their professors, teaching styles, campus environment, peers, and more. Regardless, research shows that students who report overall high levels of satisfaction with their education are more likely to engage and give back to their respective universities post-graduation (Dennis et. al., 2016). Understanding current graduate students' levels of satisfaction at Adrian College would be beneficial to the institution because it would help determine what students like and dislike about their programs. It may also give the college a better understanding of how to increase engagement post-graduation. In the current study, graduate students of Adrian College were surveyed to determine levels of satisfaction regarding multiple factors related to the institution. The questionnaire was broken down into eight different categories. The current student survey designed to measure student satisfaction had extremely low internal validity ($\alpha = 0.178$), which suggested that the prior survey did a poor job of measuring student satisfaction. The findings with the updated current survey can be used to help the office of graduate studies at Adrian College to help better understand the satisfaction levels of graduate students at Adrian College.

Emma Brockett

Libraries Are Still Relevant in the Modern Day and How Covid Has Helped Bring That to Light

Mentors: Bethany Shepherd

Ribbons: Caring for Humanity and the World

Session/Time/Location: 4C, 3:55-4:15 pm, Knight Auditorium

Abstract: Existing in a time of advanced technology and the internet, public libraries have had to fight a case of their own relevance. Information access can be found on the internet, books can be bought online and in stores, technology is widespread. So, where is the public library's place in this modern society? Is it outdated? Are taxpayers being robbed of their money? Is anyone still using their local public libraries anymore? These are all questions I have asked and investigated for this topic. In fact, the impact of Covid-19 has brought many of these answers to light more easily. Because of the government shutdowns, I was able to see a world without public libraries for a short period of time. And through its impact, the purpose of public libraries was able to be brought to light. By interviewing public libraries near to me, I gathered support for the idea that they are still relevant and needed in the modern day. I found support in the communities and the needs of the communities that most often use the public libraries. Through the study of the patrons, I found that public libraries are a necessity on many different levels, such as: shelter, technology, information access, literacy, opportunity, and community connection. I found that public libraries are relevant because of the aid they provide to some of the most vulnerable communities when it comes to access. Their mission is to serve anyone the access that everyone has a right to.

Kevin Clipper

Legitimacy with Chinese Characteristics

Mentors: Philip Howe

Ribbons: Caring for Humanity and the World, Learning Throughout a Lifetime, Thinking Critically, Crossing Boundaries and Disciplines

Session/Time/Location: 4D, 3:15-3:35 pm, Rush 124

Abstract: Today, despite socio-economic changes and democratic color revolutions, such as the Jasmine Revolution in Tunisia, the Orange Revolution in Ukraine, and the Rose Revolution in Georgia, non-democratic regimes continue to persist and emerge. How these regimes claim legitimacy is an essential factor in why they remain in power. However, the manner by which authoritarian regimes use different legitimization strategies has been overlooked. The legitimacy of the Chinese Communist Party has been contested by parts of the international community. However, in order to understand China's political system, it is critical to consider Chinese history and politics on its own terms, paying close attention to Chinese historical trajectories and Chinese perceptions of their problems, rather than a set of expectations derived from Western historical and political developments. While conventional wisdom points to governance by force, this is not sufficient to explain the Party's legitimacy as such a perspective does not fully consider how concepts of legitimacy have developed in China over the past several thousand years, resulting in the realities having greater depths and dimensions. As such, rather than evaluate the legitimacy of the Chinese Communist Party using Western conceptions and theories of legitimacy, this research will investigate how the contemporary Chinese Communist Party is able to take advantage of native, preexisting conceptions of legitimacy within Chinese society to support its position and maintain its legitimacy. These include legitimacy through tradition, performance, history, nationalism, and culture.

Maryssa McNamara

The Theatre of Politics: An Aristotelian Analysis of the 2020 Presidential Campaign

Mentors: Annissa Morgensen-Lindsay

Ribbons: Caring for Humanity and the World, Thinking Critically, and Crossing Boundaries and Disciplines

Session/Time/Location: 4D, 3:35-3:55 pm, Rush 124

Abstract: This study analyzes how presidential candidates utilize theatricality to frame their election campaigns. Research of this magnitude has not been done on a presidential election previously, so I navigated from an open perspective. Using Aristotle's six elements of theatre, I followed both the Republican and Democratic presidential candidates daily on social media, campaign websites, and in news articles to document the theatricality of their campaigns. By looking daily at how the candidates framed their narrative, I found the dramatic structure. The data documented from the research illustrates how each candidate utilized Aristotle's six elements to contribute to a successful or failed campaign leading up to the 2020 Presidential Election in the fall. Contrary to my initial prediction, it was a landslide win for Democrat Joe Biden in November. My findings articulate where the story shifted in his favor, and where Republican Donald Trump's failed to earn him a second term.

Laurel Hammis

Laura Haviland: Understanding the Memorialization of a Local Hero

Mentors: Terry Jackson

Ribbons: Learning Throughout a Lifetime

Session/Time/Location: 4E, 3:15-3:35 pm, Valade 229

Abstract: The turn of the 20th century brought with it immense social and political change through the activism of many heroes; Laura Haviland of Lenawee County being one of them. Her lifetime of activism prompted the Women's Christian Temperance Union, at the suggestion of the Haviland Association, to memorialize her legacy through the erection of a statue that still stands today in downtown Adrian. Although just a statue on the surface, understanding the greater significance her memorialization has- due both in part to her gender and abolitionist activism- is important not only to the history of the movements she was involved in, but to the Lenawee community as well. I argue that the organizations responsible for her memorial statue commemorated her not only for her lifetime of accomplishments, but also to bridge the gap between abolitionism, the temperance movement, and women's rights. Although there is a great lack of research on the question of why these organizations chose to honor Haviland specifically, information can be pulled from other historical areas of study as well as primary sources to further prove the importance of the memorial. These sources, both primary and secondary, range from newspaper articles that chronicle the statue's unveiling to articles that discuss Confederate memorialization. The variety of sources lends together to understand this time in history even further. The legacy that Haviland left within her community lives on forever through her statue and analyzing the implications her memorialization has had on history is very important.

Austin Guanzon

Racial Inequalities and Framing Effects: The Moderating Role of Implicit Racial Bias

Mentors: Stacey Todaro

Ribbons: Caring for Humanity and the World

Session/Time/Location: 4E, 3:35-3:55 pm, Valade 229

Abstract: In recent years, racial inequalities have been well documented in the media (Edwards et al., 2019). This has led to the uprising of various advocacy groups, like Black Lives Matter (BLM). Unfortunately, the media has not always portrayed these groups in a positive way. Thus, the goal of this research was to examine how framing effects influence one's emotional responses to positive and negative frames concerning advocacy groups like BLM. Based on previous research from Lecheler et al. (2015) examining immigration reform, it was hypothesized that negative frames would elicit negative affect, whereas positive frames would elicit positive affect. However, both effects would be moderated by implicit racial bias, such that those with high implicit bias would be less affected by the negative frames.

Elizabeth Hume; Jenna Bratke; Emily German

Refugee Outreach Collective Advocacy Campaign: Why Education?

Mentors: Deborah Field

Ribbons: Caring for Humanity and the World, Thinking Critically

Session/Time/Location: 4E, 3:55-4:15 pm, Valade 229

Abstract: The Why Education? Advocacy Campaign is organized to bring attention to the importance of education, and the lack of access to post-secondary education that exists in instances when people experience displacement while considering the long term consequences for individuals and the nations where they have fled. The campaign will incorporate voices from people around the world, namely Dzaleka, Matamoros, and Southwest Michigan to highlight the many definitions of education, particularly in refugee camps. Advocacy efforts will start the first week of March and will last four weeks, consisting of virtual events that feature activists, NGO workers, professors and those with relevant experiences to discuss education and displacement scenarios. Supplementary social media posts on various platforms will highlight current statistics and global issues affecting displaced persons while highlighting how education being disrupted by instances of displacement is historically rooted. Unless we acknowledge the struggle of refugees and displaced persons to receive proper education, the trend will continue.

Alpha Chi

INDUCTION CEREMONY

Alpha Chi is a national honor society that accepts only the top 10 percent of juniors, seniors and graduate students in all academic fields. Alpha Chi was founded in 1922 with the purpose of honoring academic excellence and exemplary character in college and university students. In addition to being an elite honors society, Alpha Chi also offers the opportunity for students to present annually at a national convention and awards \$60,000 a year in 26 scholarships and fellowships to individual members enrolled in full-time study.

Alpha Chi's name is derived from the initial letters of the Greek words *alethia*, meaning truth, and *xapakthp*, meaning character. The official shield bears a lamp of learning and the initials AX in raised letters. In the induction ceremony today, you will see these two virtues are symbolized in the Society's official colors – sapphire blue, depicting truth and emerald green, victory. Knowledge, the basis of truth and character, is symbolized by gold and candlelight. The motto of Alpha Chi is, "You shall know the truth, and the truth shall make you free." John 8:32.

Since its inception in 1922, over 400,000 members have joined this society nationally. The Michigan Alpha chapter here at Adrian College is the oldest chapter in Michigan, established in 1964. Those being inducted today will join over 500 current and alumni members in the Michigan Alpha chapter of Alpha Chi.

Please join us in celebrating the accomplishments of these students as they are welcomed into this prestigious national honor society.

ACKNOWLEDGEMENTS

There are a lot of people who help to put the Ribbons of Excellence Day Conference together and we would like to thank all of you for your support.

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