

NAZARETH



CARS 2023

Creative Activity and
Research Showcase



APRIL 25, 2023

Introduction

Welcome to CARS – Creative Activity and Research Showcase

We gather as a community for CARS in celebration of the remarkable creative activity and research of our undergraduate and graduate students across our array of programs.

Together with their faculty sponsors, our students engage in many forms of creative activity and research, with inquiry at the heart of their endeavors.

Indeed, inquiry is at the heart of a Nazareth education. Inquiry shows changemakers what is possible, drives change, and encourages imagination of a better future for ourselves and our communities. It is critical for advancing knowledge, fostering creativity, inspiring innovation, and improving quality of life.

CARS also celebrates the power of mentoring and collaboration for transformational learning. Thanks to all faculty sponsors of our students' creative activity and research.

I am so excited to see what questions our students are asking, the problems they are tackling, the possibilities they are imagining, and to see where this exceptional learning takes them.

Thank you for being here today, and for celebrating the achievements of our students and the vitality of our learning community.

A handwritten signature in black ink that reads "Elizabeth L. Paul". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Elizabeth L. Paul
President

Share Your Experience – #NAZCARS23

One of the most exciting aspects of doing research and creative work is sharing one's work with others. We invite you to engage with CARS participants throughout this event by asking thoughtful questions about their work, by celebrating their accomplishments with them, and by sharing highlights of the day with your friends, family members, fellow students, and colleagues.

Please share highlights from today on social media by using this year's hashtag, #NAZCARS23. We are excited to be back in person and can't wait to see all your favorite moments of CARS 2023!

Thank you!

As hosts of the annual Creative Activity and Research Showcase, we would like to thank our volunteers who have given their time to serve on the planning committee. We would also like to thank all participating faculty, staff, and students. A special thank you to [Emily Starkweather](#) and [Ashley Chisolm](#), student workers in CAS, for all their extra help. We appreciate the commitment of both the volunteers and the participants to CARS and acknowledge that CARS would not exist without the support of the Nazareth College community.

CARS 2023 Committee

[Rachel Bailey Jones](#)-Education

[Amber Charlebois](#)-Chemistry

[Michelle Donahue](#)-Physical Therapy

[Cathy Doyle](#)-Library

[Jacob Ertl](#)-School of Music

[Francesca Gentile](#)-English & Communication

[Grant Gutheil](#)-Psychology

[Kelly Hutchinson-Anderson](#)-Chemistry

[Lindsey LaPlant](#)-Psychology

[Mary Maher](#)-Public Health in Nursing

[Jessica Stachowski](#)-Chemistry

[Ed Wiltse](#)-English & Communication

[Stephanie Zamule](#)-Biology

[Ashley Zaleppa](#)-CAS

Program at a Glance

Format	Location	Time
Bagels and Coffee/Opening Remarks with Provost Maureen Finney	Forum, Shults Center	9:00 am – 10:00 am
Honors Capstones	Zoom	10:00 am – 4:00 pm
Poster Presentations Session #1 (Even Numbers 2-92)	Gym in Shults Center	10:00 am – 11:00 am
Paper Presentations Panel #1	Smyth Hall 148, 160 & 163	10:00 am – 11:00 am
CER Presentations	Reading Lounge, Shults Center Hallway Ramp, Shults Center Porthole Lounge, Shults Center Forum, Shults Center	10:00 am - 4:00 pm
CME Presentations	Hallway in front of Forum, Shults Center	11:00 am - 12:00 pm
Performance Session #1	Arts Center A13	11:00 am - 12:00 pm
Sidewalk Chalk Art Contest A Capella Performances by <i>Fermata Thin Air</i> and <i>Call4Backup</i>	Outside Patio of Library	12:00 pm – 1:00 pm
Paper Presentations Session #2	Smyth Hall 160 & 161	1:00 pm - 2:00 pm
Poster Presentations Session #2 (Odd Numbers 1-93)	Gym in Shults Center	2:00 pm - 3:00 pm
Paper Presentations Session #3	Smyth Hall 148, 160 & 163	2:15 pm - 3:15 pm
Performance Session #2	Callahan Theater, Arts Center	3:00 pm - 4:00 pm
Evening Graduate Poster Presentations (Numbers 501-509)	Reading Lounge, Shults Center	6:00 pm - 7:00 pm

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Please note:

- 1. All information is included, without editing, as submitted by student participants.**
- 2. (G) following the poster number denotes graduate student participating during the day program.**
- 3. Posters numbered 500 and above indicate participation in the evening graduate program.**

Paper Presentation Schedule

Paper Session #1: 10:00 am -11:00 am

Panel 1: Museums, Memory, and Acts of Witness

Room: Smyth 148

Ariana Montalvo: “How Ordinary Objects Become a Witness to Genocide”

Liv Losito: “To Bear Witness To Pain”

Kayleigh Hegerle: “Correcting Our Material Past: The Decolonization of Museum Collections to Establish Diversity, Inclusion, and Community”

Madison Darrell: “Enslavement Interpretation and Visitor Experiences: A Case Study of Three Sites Joined by a Common History”

Panel 2: Reading and Reacting to Representation in Film

Room: Smyth 160

Katherine Paulus: “The Horrors of Feminism: Second-Wave Feminism and Horror Movies in the 1970s”

Chiara Osborne: “Woman Knows Best: Lady Bird and the Female Gaze”

Amanda Heron: “The Appropriation of an Ancient Chinese Ballad: Disney’s Inauthentic Retelling of Hua Mulan”

Panel 3: Performing Arts and Social Issues

Room: Smyth 163

Allison Diefenderfer: “Cloaked in Controversy: Shakespeare’s Use of Disguise”

Melena Kopf: “Theater and Environment”

Finnegan McMaster: “The Past, Present, and Future of Accessibility and Theatre”

Kyra Green: “Can you hear us now...?”

Paper Presentation Schedule

Paper Session #2: 1:00 pm – 2:00 pm

Panel 4: (Re)examining Historical Narratives

Room: Smyth 161

[Rheanna Barney](#): “A miraculous Failure: The 1616-1619 Smallpox Epidemic of Massachusetts Bay, and the Native American Response”

[Kate Paulus](#): “A Constant Cycle of Appeasement”

[Kayleigh Hegerle](#): “The Anti-Semitic Actions of America Today Evokes Memories of Early Nazism”

Panel 5: Adversity and Ability

Room: Smyth 160

[Kendall McGill](#): “Adversity as Advantage”

[Owen Hartel](#): “Synesthesia”

Paper Presentation Schedule

Paper Session #3: 2:15 pm – 3:15 pm

Panel 6: The Arts and Cultures Section

Room: Smyth 148

- Isabelle Rehermann:** “Take It Easy” to “The Sad Café:” The Eagles and the 1970s”
- Amanda Heron:** “She Cuts an Unlikely Figure: Eileen Change and the Asian American Literary Tradition”
- Katherine Markello:** “The Perfectionism Epidemic: Dismantling the Dictatorial Hierarchy of Ballet”
- Alexis Lakatos:** “The History and Love of Ranch Salad Dressing”

Panel 7: Education, Rights and the Law

Room: Smyth 163

- Helene Becker:** “Special Education in the USA”
- Kaitlyn Lupia:** “How Corporate Law and Policy Can be Used to Eliminate Human Rights Violations in Garment Industry Supply Chains”
- Cecilia DeGroff-Ceiri:** “The Mental Health Crisis in American Colleges and Schools”
- Savannah DeVore:** “Rewriting their History: The United States Tries to Erase Their Racist Past”

Panel 8: Developmental and Mental Well-Being of Families and Children in the US

Room: Smyth 160

- Nicole Grace, Asha Gozzelin, Austin Torres, Heidi Ziervogel**

Honors Capstones Schedule

Zoom

Room # 1

<https://naz.zoom.us/j/123333273>

Meeting ID: 123 333 2373

9:00 am - 9:50 am: Leah Simon

10:00 am – 10:50 am: Kayla Petri

1:00 pm – 1:50 pm: Mathew Ryan

Room # 2

<https://naz.zoom.us/j/2993882481>

Meeting ID: 299 9388 2481

9:00 am – 9:50 am: Ivy Dulysz

10:00 am - 10:50 am: Geena Morotti

11:00 am – 11:50 am: Sarah Sandoval

12:00 pm – 12:50 pm: Emma Baldwin

1:00 pm – 1:50pm: Rachael Phillips

Core Milestone Experience

Hallway in front of Forum, Shults Center
11:00 am -12:00 pm

The Core Milestone Experience (CME) gives students the opportunity to reflect on their intellectual journey using artifacts from their perspective-enduring question (PEQ) courses, Integrative Studies, and Experiential Learning to create an enduring question. Students then create a project that demonstrates a thoughtful engagement and exploration of their Enduring Question.

The CME faculty have invited students whose completed projects were of exceptional distinction to share their work here at CARS. Please visit the Hallway in front of the Forum, (in Shults Center) from 11:00 a.m. to noon to see the wide variety of exciting and insightful projects.

Core Milestone Experiences

Samantha Donowski

Academic Major: Social work and Dance Studies

Title: Mind/Body Connections

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, CME

Abstract: I made a video showcasing movement as visuals as well as spoken pieces explaining my research. I did this on my own for my CME project. I chose this topic because I felt that it related strongly to both of my majors.

Motivation for Participating: I think just experience.

Emilee Dykeman

Academic Major: Social Work

Title: Universal Rights and Global Equity

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, CME

Abstract: I researched how Universal Rights negatively impact the Global South. I took a look at the faults in the creation of these rights and how, I believe, they are incorrectly applied to other countries. I did this by taking SWK, ANT, and PSY courses that discussed Universal Rights. I did it to show how varying values around the world conflict with Universality of rights.

Motivation for Participating: To spread what I have learned and hopefully widen people's perspectives on global equity.

Kara Reinhardt

Academic Major: Occupational therapy

Title: How does owning a pet in college affect the well-being of undergraduate students?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, CME

Abstract: My CME project was focused on my interest in animal assisted interventions and the health of undergraduate students. I created a survey and asked students who owned a pet in college to fill it out to collect data. As a future occupational therapist it is important to look at the overall health of a person and it takes a very holistic approach. Animals are a huge part of most people's life and wanted to see if and how it impacted the population of college students.

Motivation for Participating: I hope to gain presenting skills and improve my communication skills.

Noelle Sahloff

Academic Major: Music Therapy

Title: How Does Music Affect Development?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, CME

Abstract: I created a website that explored the two breakdowns of what I categorize as music and development: Music and the Brain and Music and development. I explored how the brain is affected by music and how it responds to it as well as including various articles and videos explaining how and why music works with the brain. I then researched the different stages of development from birth to end of life care. I also interviewed 6 different people that are in different stages of development and asked them the same two questions: What is music? and Why is it important? As you watch the videos you can see how their answers change as they age. I chose to do this because I have always had a strong interest in how music and development coincide. Since I am a music therapy major I wanted to dive deeper into the topic and explore my route of understanding how music affects development.

Motivation for Participating: I hope to gain an understanding of others understanding of how they perceive music and it's important as well as show how important music is in our daily lives. I also hope to learn more about others perceptions on how they thought music affected their development.

Alyssa Sumeriski

Academic Major: Social work and Dance Studies

Title: Wellness With Performing Artists

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, CME

Abstract: This series encompasses individuals from all over having a conversation based off of the messy question, "How does the performing artists identify impacts on their view of wellness?" In order to accomplish this I was able to interview performing artists and ask them this very question and see where the question took us. I was then able to compile a podcast to help create the final project. The reason that I decided to do this project is I have a view that starting the conversation on so many of the toughest topics that we face in this world, start with just a simple question and lead to awareness and so much more.

Motivation for Participating: I hope to be able to start the conversation for more people and spread awareness of the good and limits of wellness in the performing arts field.

Idallas Wearing

Academic Major: Psychology

Title: Black Minds Matter

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, CME

Abstract: In my project what I did was create a website focused on black americans mental health specifically I give the history behind why black mental health is not taken seriously in America I made a section providing numerous of resources for black Americans so people can take all of this information away and continue to spread the information. I did this because I believe that this school does not promote the mental well-being of black americans and there is still racists acts happening on campus, to stop this we need to bring more awareness and make Nazareth an open community for people of color and black americans.

Motivation for Participating: I hope to bring more knowledge of the black community and hope to hear from others.

Honors Capstones

Emma Baldwin

Academic Major: English, History, and Inclusive Adolescence Education

Title: Homeward Bound: A Phenomenology of Rural Teachers Returning to Their Rural Roots

Faculty Sponsor: Professor Stephanie Zamule, Honors Program

Abstract: As a culminating capstone for the Honors Program, this project analyzes the rural education experience for Orleans County-area teachers and administrators. Using a phenomenological lens — a deep, qualitative research methodology, it delves into several individual's perspectives of the rural schooling journey: beginning with their upbringing and understanding of their original geographies and school-community culture; then, ultimately, the participants' committed return and service to rural education, and what they feel makes the experience unique.

Motivation for Participating: While this is not my first presentation at CARS (I've actually had a few), I am very excited to be presenting what is really my passion project. I am not only looking into this as an academic assignment, but it is very much self-directed, close to-the-heart, and I believe it is just the start of my professional journey and involvement in caring and advocating for rural schools.

Ivy Dulysz

Academic Major: Music Therapy

Title: The Weight of a Mask: The Psychosocial Impacts to and of Camouflaging Autism Spectrum Disorder in Women

Faculty Sponsor: Professor Dawn Vogler-Elias, Communication Sciences & Disorders

Abstract: This thesis examines various research and personal perspectives on Autism Spectrum Disorder (ASD), their impacts on one another, and how they shape public perception of the female autistic experience. Disability research has been built on an unstable foundation, completely uninformed by the individuals we are attempting to understand and learn more about. The societal perception of ASD has been skewed for decades due to the negative framing of autistic characteristics and traits by allistic- not autistic- and neurotypical diagnosticians and researchers. To create a more equitable and just world for autistic individuals, it is imperative to better understand who they truly are, how misperceptions alter their outward presentation, and how their existence is stigmatized by a loop of misinformation that has lasted for generations.

Motivation for Participating: I hope to be able to learn the reasons why allistic and neurotypical individuals look down on autistic individuals when they do not mask in a preferred way or do not adhere to arbitrary social cues. I also hope to help neurotypicals better understand the authentic autistic experience.

Geena Kathleen Morotti

Academic Major: Biomedical Sciences

Title: Burnout In Healthcare and its Impact on my career path

Faculty Sponsor: Professor Stephanie Zamule, Honors Capstone

Abstract: Discussion of burnout and its impact in various healthcare professions and how my personal experiences relating to burnout have shifted my choice in careers.

Motivation for Participating: Practice how to demonstrate research in front of a professional audience.

Kayla Petri

Academic Major: History and Political Science

Title: The "Positive Woman" and Her Antifeminist Crusade: Phyllis Schlafly's STOP ERA Movement and its Consequences

Faculty Sponsor: Professor Stephanie Zamule, Honors Program

Abstract: The project I will be presenting is my Honors Thesis, so it is ultimately a 40-60 page thesis and then a presentation. While part of the requirement for the Honors Program, I did it because I wanted to conduct research into a topic of my own choosing and interest. I wanted to really dedicate myself to my topic and present my findings as well.

Motivation for Participating: I want to have the chance to present my own work in front of others. Along with practical skills, such as public speaking, I want to share and reflect on what I have learned. I also want to see how others react to my work and hear other thoughts and ideas around my topic.

Rachael Phillips

Academic Major: Music Therapy

Title: The Harm in Harmony: Research on Music Induced Harm

Faculty Sponsor: Professor Stephanie Zamule, Honors Program

Abstract: This project will be presented as a powerpoint presentation. The presentation is a summary of my capstone research paper on music induced harm (MIH). This research was done to raise awareness about the potential of music induced harm not only in a therapeutic setting, but in an individual's every day music listening practices. Through my project I aim to raise awareness for how and why music induced harm occurs in order for clinicians and individuals to prevent and mitigate harm when necessary. Within this research I conducted a survey to determine how commonly people experience music induced harm in their personal music practices and in what domains they are most effected.

Motivation for Participating: I hope to gain multiple perspectives on this work from those who will view it at the CARS conference, and engage in discussions about this topic that will bring both myself and my audience more awareness and understanding.

Mathew Ryan

Academic Major: Music Education

Title: Undergraduate Stress: The Added Stress of Music Majors

Faculty Sponsor: Professor Keith Koster, School of Music

Abstract: For this project, I used the SPARK Grant to do research on survey study over the summer to create an anonymous non bias survey using Qualtrix. The survey hits upon multiple aspects of stress that I researched for my literature review. Main categories being environmental stressors, academic stressors, and interpersonal stressors, as well as the added stressors found in music majors. The reason for this research was because I am a music education major and I noticed that as a music major we were way more stressed than other majors and were taking way more classes at the same amount of credits as others. Hence I started this research. Once I distributed the survey I got about 183 respondents over a 4-5 week period of just undergraduate music and non-music majors here at Nazareth College.

Motivation for Participating: I hope to learn how much work, research, and effort is done just to present your work and the process one goes through to present their work, but also experience how your work isn't just correct and that it is questioned by society first. Also that the research I have done can make a difference in the teaching world of music majors here at Nazareth College.

Sarah Sandoval

Academic Major: Political Science and Legal Studies

Title: The Use of Social Media in Queer Culture: A Discourse Analysis

Faculty Sponsor: Professor Stephanie Zamule, Honors Capstone

Abstract: For my thesis, I have analyzed posts on various social media sites to determine

how the queer community has utilized social media. I decided on this subject because of the recent anti-transgender legislation in some states and the response on social media.

Motivation for Participating: I hope to gain the experience of presenting work that I am passionate about to my peers and mentors.

Leah Simon

Academic Major: Nursing

Title: The Effect of Music on Nursing Students' Perceived Stress Levels, State Anxiety, and Self-Efficacy during Nursing Simulations

Faculty Sponsor: Professor Bonnie Walden, Nursing

Abstract: For my Honors Capstone Project, I did a quasi-experimental pilot study at Nazareth College. I investigated how music in nursing simulation labs affected how nursing students' felt regarding their stress, state anxiety, and self-efficacy. Often, nursing simulation labs are found to be a stressful experience full of anxiety and lots of unknowns. I wanted to determine if playing background music during simulation would affect how students felt during these experiences. I was able to investigate this question by utilizing the nursing simulation lab times throughout the semester. I split half the students into control groups and the other half into intervention (music) groups. Before each simulation lab, I had students fill out a pre-survey to determine how they were feeling. After the simulation lab, I would also have them fill out a post-survey. I statistically analyzed the data with IBM SPSS, Version 27. With this tool, I was able to compare each groups' stress levels, state anxiety, and self-efficacy before and after simulation. I wanted to focus my Honors Capstone project on the use of music in nursing simulation due to my interest in music. I have a minor in music and have found it to be a relaxing outlet the majority of my life. Healthcare providers routinely use music to help their patients, but I think it is important to consider the value music has for the healthcare providers themselves as well.

Motivation for Participating: I really look forward to sharing all the hard work I have done on creating the experiment. I also want others that may be interested in this topic and type of work to be able to hear what I did. I also want to learn how to present a major paper/project like this. I want to develop skills to keep others interested by my research.

Community Engaged Research

Makenzie Robbins, Emma Arnold, Matthew Droney, Rebecca Ramnath (10:00 am-11:30am, Porthole Lounge, Shults Center)

Academic Major: Physical Therapy and Social Work

Title: COVID film

Faculty Sponsor: Professor David W. Steitz, Psychology

Abstract: A COVID-19 video project was made to explore attitudes and experiences around the pandemic. Videotaped interviews were taken of individuals' perspectives during the COVID-19 pandemic. These interviews were compiled into one film where the participants' viewpoints were discussed. Topics that were discussed in this film included how the pandemic affected technological competency, being able to receive proper health care during the pandemic, and how did the government prioritize those at risk.

Motivation for Participating: To capture the state of the world during Covid, we wanted to bring a meaningful discussion about issues that arose in older populations during that time. These topics we feel are valid for any student going into a professional career where you would deal with these populations.

Experiential Learning Pathway: Service Learning

Kristin Boerman, Maggie Burdick, Lorren Perry, Grace Seither (10:00 am-11:30am, Porthole Lounge, Shults Center)

Academic Major: Physical Therapy

Title: The Impact of Healthcare on Quality of Life in Older Adults

Faculty Sponsor: Professor David W. Steitz, Psychology

Abstract: Throughout our lives we have heard and developed our own stereotypes regarding the older adult population. Many people do not take the time to sit down and ask the older adults in their life how they actually experience or view things like

healthcare, aging, struggles and meaningful quality of life. We interviewed many people including older adults, physical therapists, and younger adults to obtain their views on aging, quality of life, and the problems/ benefits regarding healthcare. We put the interviews into a film that focuses on these ideas from the point of view of different age groups and statuses. Our goal is to help others better understand the older adult community and how their views, struggles, and rewards change throughout life.

Motivation for Participating: We hope to educate the public on how older adults view the world, quality of life, healthcare, and themselves. Along with this help others understand the struggles older adults experience and the best ways to help the older adults in their life achieve the highest quality of life.

Experiential Learning Pathway: Service Learning

Ally Benson, Elizabeth Kabes, Abby Goldberg (10:00 am-11:30am, Porthole Lounge, Shults Center)

Academic Major: Physical Therapy

Title: Aging in Different Cultures

Faculty Sponsor: Professor David W. Steitz, Psychology

Abstract: The purpose of this video is to explore how culture influences the aging process. We interviewed an elderly man from Venezuela, an elderly woman from the U.S., and a Filipino caretaker in hopes to further learn more about aging in different cultures. Our goal is to further educate people on the cultural experiences that shape how we view aging. By exploring their perceptions and experiences, we can address how cultural differences impact our current and future views on aging.

Motivation for Participating: We hope to have an open discussion in a professional setting with our community.

Experiential Learning Pathway: Service Learning

Rebecca Seaman, Alyssa Lombardo, Laura Wilhelm, Mackenzie Badgley (10:00 am-11:30am, Porthole Lounge, Shults Center)

Academic Major: Health Science

Title: Love Across The Ages

Faculty Sponsor: Professor David W. Steitz, Psychology

Abstract: We will be showcasing a film about love across the ages. Divorce and hookup culture is way more prevalent now than our grandparents generation... Maybe we should take our elders' advice and return to the principles of love and marriage that they follow. We created a film that interviews a younger couple and an older couple to see how thoughts are similar and different. We looked at love and relationships and developed a novel way to look at how our generational viewings are different and discussed the socially relevant topic.

Motivation for Participating: How other people view love and what their ideas are regarding love and divorce and hook up culture.

Experiential Learning Pathway: Service Learning

Sarah Merriwether, McKayla Hughes, Dominic Vito (10:00 am-11:30am, Porthole Lounge, Shults Center)

Academic Major: Physical Therapy

Title: The Effects of Aging and Extracurriculars

Faculty Sponsor: Professor David W. Steitz, Psychology

Abstract: Our group made a video about how participating in activities throughout your life impacts your quality of life and overall health. We interviewed family members of different age groups to get perspectives outside of our own.

Motivation for Participating: We hope that others are inspired to stay connected to others and to stay active, throughout their lifetime.

Experiential Learning Pathway: Service Learning

Jamai Thomas, Ivy Dulysz, Nicole Engel, Ava Leboo (10:00 am- 11:00 am, Hallway Ramp, Shults Center)

Academic Major: Physical Therapy

Title: Tweets, Posts and Blogs: Inclusivity Lost in Translation

Faculty Sponsor: Professor Amy Pete, Physical Therapy

Abstract: The purpose of this event is to highlight non-inclusive practices that are present within campus and society while also identifying the different mediums where conflicts in opinion may arise. Examples of conflicts range from difficult conversations surrounding race or sexual orientation to disagreements in instruction and purpose within the classroom. Introductions to inclusive practices and how to navigate the different mediums such as emails, social media, and print resources will be held to improve communication practices on campus. Gallery will be set up with posters of examples on non-inclusive and inclusive practices from different mediums (social media, emails, letters). Non-inclusive examples and inclusive examples will be set up parallel to each other, each example displaying a QR code linked to a forum page to record anonymous comments about each piece.

Motivation for Participating: Our goals are to: 1. Allow diverse perspectives to effectively communicate on complex topics in the face of conflicting positions. 2. Integrate communication in ways that enhance knowledge and understanding. 3. Approach diversity and inclusivity practice from a modern approach 4. Promote advocates for change on campus.

Experiential Learning Pathway: Student Leadership, Noncredit Bearing
Community Engagement

Dominika Jamberdino, Maggie Davison, Kendal Guzyk, Olivia Keller, Emma Jacobs, Hanna Walker, Makenna Wiljanen (11:00am-12:00pm, Reading Lounge)

Academic Major: Social Work, Nursing, Physical Therapy, Chemistry, Psychology, History, INCH

Title: Reading Between the Lines: Literary Discussion Groups with People Who Are Incarcerated

Faculty Sponsor: Professor Ed Wiltse, English & Communication

Abstract: This semester two literature classes, ENGL 239: Hitting the Road: Fictions of American Mobility and ENGL.Q 133: Crime and Punishment in the USA, have had the opportunity to interact with incarcerated students to discuss our class readings in informal, book club-style conversations. ENGL 239 has been having a series of Zooms with incarcerated students in Colorado whom we provided with the books for our class, while some students from ENGL.Q 133 are going to Monroe County Jail each week to meet with either incarcerated women or incarcerated male veterans to discuss the class texts. As a result the Nazareth students have gained not only new perspectives on literature, but also the truth and reality behind the criminal legal system and all the stories these students have to share!

Motivation for Participating: We are eager to share what we've learned about literature and life by collaborating with incarcerated readers, and to help break down stereotypes and stigmas.

Hannah Bardeen, Sabrina Bui, Taylor Griffin, Katherine Markello, Vanessa Parra, Lillian Thatcher, Sara Wadsworth (1pm-2pm, Forum in Shults Center)

Academic Major: Dance, Psychology, CSD, CYD,

Title: Exploring Community Dance Practices with DAN 355

Faculty Sponsor: Professor Allison Thomashefski, Theatre & Dance

Abstract: Students enrolled in DAN 355: Dance Pedagogy have been exploring a variety of community partnerships this semester. In this presentation and panel discussion, we will share our experiences designing, implementing and reflecting upon dance experiences with students ranging in age from 1-91 years old. We have had the joy of working with a huge variety of people from multiple contexts and have learned a lot through this process. Together as a class, we have explored what it means to be a community of dance educators as well as what it can look like to bring dance to populations that may not normally have access to it--encouraging the mindset that dance is for EVERYONE.

Motivation for Participating: Our motivation for participating in community dance stems from the goal of making dance more accessible for a wider audience, and fostering connection through movement. We really enjoy doing this type of work. It is our passion

to dance and sharing this with people from multiple contexts is a special opportunity.

Leah Greenwich, Sienna Becker, Maya Cox, Julia Hollandsworth, Kaitlin Reynolds, Sofia Santiago-Douglas, Kloey Shannon (1:30 pm-2:30 pm, Reading Lounge)

Academic Major: Community Youth Development and other majors

Title: Why Community Youth Development?

Faculty Sponsor: Professor Marie Waktins, Community Youth Development
Professor Isaac Bliss, Community Youth Development

Abstract: Community Youth Development students worked in partnership with youth leaders from the Youth Voice One Vision organization to create an interactive youth program.

Motivation for Participating: We hope to gain experience working collectively with youth leaders in our community to address the topic of safety.

Roman Brewster, Jack Broderick, Steven Charlebois, James Gardner, Morgan Jachim, Gabbie Lawyerr, Alex McKinlay, Isabelle Nudd, Jillian Panek, Noelle Pappano, Hannah Proper, Kaitlin Reynolds, Derek Tucker (2:30pm-3:30pm, Porthole Lounge)

Academic Major: History, Sociology, CYD, English, Theatre Arts, Education

Title: Issues in Language and Literacy Development

Faculty Sponsor: Professor Cindy McPhail, Education

Abstract: Students created digital compositions about a language/literacy story that they felt needed to be told. Through formats such as podcasts and iMovie's, students will present their learning from interviews, course materials, and research. Topics include: The differences between learning a language as an immigrant vs. learning it as a foreign exchange student (James and Derek), The historical experience of an immigrant/refugee family (Isabelle), Discourse code-switching in response to context (Gabbie and Jillian), Rural districts and the education of students learning English (Jack and Steven), The differences

between language acquisition vs. learning in the context of American Sign Language (ASL) (Kaitlin and Roman), The experiences of a bilingual French/English speaker from Quebec (Noelle and Hannah), and Banned books and their impact on student learning (Morgan and Alex).

Motivation for Participating: Students were excited to reach out to, and learn from, people who had authentic, lived experiences with topics related to our class in Language and Literacy Development.

Paper Presentations

Ariana Montalvo (Panel 1)

Academic Major: Biomedical sciences and Religious Studies

Title: How Ordinary Objects Become a Witness to Genocide

Faculty Sponsor: Professor Susan Nowak, Religious Studies

Abstract: In high school we learn very little on the events of genocide whether it be the Holocaust, Khmer Rouge or other genocides of the past or present. We are not educated on the lead up to these tragic and inhuman events nor are we educated on the how. Coming to college and taking Dr. Nowak class Auschwitz and After truly opened my eyes to how Genocide does not occur overnight rather it develops little by little until horror occurs. Over winter break traveling through Cambodia and walking through the Killing Fields and S21 once again it was a reminder of how horrific events do not happen overnight. Taking a deeper look into both the Shoah and Khmer Rouge you piece together that though they are very different, they in fact are the same. They both were caused by dangerous people who came to power and used ordinary everyday things and objects to kill millions without any remorse or second thought. Using essays and assignments from Dr. Nowak's class and reflections from my journal I have pieced together how ordinary everyday objects become and take the place of a witness.

Motivation for Participating: I hope to gain a deep understanding on genocide and how we and a society can come together to protect and love one another and heal together in efforts to stop future genocides.

Experiential Learning Pathway: International Experiences

Liv Losito (Panel 1)

Academic Major: History

Title: To Bear Witness To Pain

Faculty Sponsor: Professor Noel Wolfe; History, Politics, and Law

Abstract: Expanding upon the initial idea I had for my CME, "To Bear Witness To Pain" is the culmination of my research about the ties between emotional bandwidth, empathy, and social action. Through traditional methods of research through literature, interviews, and surveys I have sought to compile people's answers to the question: are we obligated to bear witness to pain? This project has been inspired by the courses I have been able to take here at Nazareth, as well as my own personal and familial interest in civil rights, justice, and kindness.

Motivation for Participating: I hope to share the final product of my efforts for this project and to gain more experience presenting in a professional academic setting to an audience. I would like to further develop my presentation skills, and I simply enjoy the opportunity to do so.

Kayleigh Hegerle (Panel 1)

Academic Major: History & Museums, Archives, and Public History

Title: Correcting Our Material Past: The Decolonization of Museum Collections to Establish Diversity, Inclusion, and Community

Faculty Sponsor: Professor Timothy Kneeland; History, Politics, and Law

Abstract: My research explores and analyzes the practice of decolonizing museum collections and creating an environment of shared authority as a means of addressing their imperial past and bring greater diversity and inclusion to their collections and exhibits. I also evaluate how this practice can lead to a better means of educating their community while also expanding the community which is able to contribute to the museum. My main

sources of research include the projects and case studies completed by Polly Bence of the British Museum who worked with the Kiribati Community exploring cultural authority in the United Kingdom and Jim Harris' work on Agile Objects in which he uses collections for hands-on teaching. I also studied the Native American Graves Repatriation Act and the research of experts including Kate McSweeney, Tiffany Jenkins, Katy Bunning, John Giblin, and Ellen Peirson-Hagger. By re-examining their hierarchical structures, participating in community collaboration projects to re-contextualize the objects' representation, and participating in the ongoing movement for the repatriation of objects, all of these work towards the conclusion that collections play a vital role in how museums incorporate ideals of diversity, inclusion, and community into everyday practices.

Motivation for Participating: Improving my presentation skills for my academic future.

Madison Darrell (Panel 1)

Academic Major: History; Museums, Archives & Public History; and French

Title: Enslavement Interpretation and Visitor Experiences: A Case Study of Three Sites Joined by a Common History

Faculty Sponsor: Professor Timothy Kneeland; History, Politics, and Law

Abstract: This paper focuses on how plantation-house museums and historic sites linked to slavery reckon with their racist history and interpret it for visitors. This study analyzes three sites in the Washington, D.C. region that share a common history but not a common interpretation, as each site reflects a different openness to sharing inclusive narratives. Using direct observation, interactions with staff, and secondary sources related to changes in interpretation within recent years, the paper concludes that it is the responsibility of these sites to embrace their role as custodians and interpreters of enslavement memory rather than ignore it. Proper interpretation is necessary to construct a public memory that will move the nation towards truth and reconciliation.

Motivation for Participating: I hope to gain experience in presenting and public speaking and share a topic that I am passionate about. I hope to continue researching this topic in the future.

Katherine Paulus (Panel 2)

Academic Major: History and Inclusive Childhood Education

Title: The Horrors of Feminism: Second-Wave Feminism and Horror Movies in the 1970s

Faculty Sponsor: Professor Timothy Kneeland; History, Politics, and Law

Abstract: Horror movies are a reflection of major events taking place during the time the movie is created. Some horror movies reflect the rise in Second-Wave feminism across the United States. But, instead of reflecting the movement in a positive light with strong female characters who take charge and fight the horror themselves, horror movies during the 1970s subtly attacked the beliefs of Second-Wave feminism and the feminist herself. Horror movies made in the '70s often villainized concepts like sexually free women or independent women like single mothers or divorced women. My research focuses on six horror movies created in the '70s that support my argument that each of them villainizes women who portray popular characteristics of a Second-Wave feminist. My main sources in this paper not only include the six movies that I study but also psychological research conducted in the '70s that focuses on how Second-Wave feminism impacts the model of the nuclear family and what draws women to the concept of Second-Wave feminism. In this paper, I draw conclusions that not only do horror movies made in the '70s villainize the ideals and concepts of Second-Wave feminism but also that this reflects the overall American view on Second-Wave feminism that was present in the '70s.

Motivation for Participation: I hope to better my oral presentation skills.

Chiara Osborne (Panel 2)

Academic Major: Dance Studies, Museums Archives & Public History

Title: Woman Knows Best: Lady Bird and the Female Gaze

Faculty Sponsor: Professor Ed Wiltse, English & Communication

Abstract: I wrote a paper dissecting the film "Lady Bird" and how being told through a female lense subverts the conventions of the coming of age film genre. I chose this movie and topic as it is important to me to consider the ways gender and how the audience is having their attention directed within film.

Motivation for Participating: I hope to be able to share my work as I enjoy sharing ideas with others and receiving feedback.

Amanda Heron (Panel 2)

Academic Major: Communication and Media

Title: The Appropriation of an Ancient Chinese Ballad: Disney's Inauthentic Retelling of Hua Mulan

Faculty Sponsor: Professor Phillip B. Guingona; History, Politics, and Law

Abstract: In 1998, the Walt Disney Company adapted the story of Hua Mulan, though it is unclear which Chinese version they drew inspiration from, as the literary and folk tradition of Mulan stretches back to between the fourth and sixth centuries. While the film adheres to the basic plotline of the early Chinese versions, the process of introducing Mulan to Western audiences ignores the literary tradition and distorts Chinese culture. This paper argues that, by heightening gendered conflict, pushing individualism, and misrepresenting filial piety, Disney appropriates the story of Mulan and fails to fulfill its claim of authenticity. This paper examines five versions of the legend of Mulan and conducted secondary research about the differences between the literary tradition of Mulan and the 1998 movie. Through this process, this paper draws the conclusion that Disney continues the practice of Orientalism in the movie and appropriates an important ideological figure in order to push Western ideology. The appropriation of Mulan is significant because, as one of the major movie production and distribution studios, Disney has the power to influence people's perceptions of the cultures they portray in their films.

Motivation for Participating: Bettering oral communication skills and articulating research/writing process in the form of a presentation.

Allison Diefenderfer (Panel 3)

Academic Major: Inclusive Early Childhood/Childhood Education and English

Title: Cloaked in Controversy: Shakespeare's Use of Disguise

Faculty Sponsor: Professor Gregory Foran, English & Communication

Abstract: I would like to present my term paper from Engl 305: Shakespearian Comedies. This paper focuses Shakespeare's use of disguise throughout the different comedies that we read to discuss topics that would induce cultural anxieties in the Elizabethan era. The paper involves both my own analysis of scenes as well as scholarly research on the topic. Shakespearian Comedies has been my favorite English class that I have ever taken. As we read through the plays, I noticed this use of disguise and could not help wonder why did this character need to be in disguise. Then, I looked at the themes that we were discussing, particularly gender, and how those disguised scenes often had something to do with gender. This paper clicked for me. It was an aha moment. I saw the pattern and it was very enjoyable to dig deeper and connect the dots between the plays.

Motivation for Participating: Public speaking is not my strong suit and I hope this opportunity will give me an opportunity to speak about a project that I am very proud of. This is my favorite paper that I have ever written and I want to share that to a broader audience.

Melena Kopf (Panel 3)

Academic Major: Theater Arts

Title: Theater and the Environment

Faculty Sponsor: Professor Matthew Ames, Theatre & Dance

Abstract: It's a paper about how costuming in theater affects the environment.

Motivation for Participating: Presentation skills.

Finnegan McMaster (Panel 3)

Academic Major: Theatre Arts

Title: The Past, Present, and Future of Accessibility and Theatre

Faculty Sponsor: Professor Matthew Ames, Theatre & Dance

Abstract: I wrote a research paper on the history and prospects of accessible theatre.

Motivation for Participating: I hope to gain experience in presenting a professional paper.

Kyra Green (Panel 3)

Academic Major: Dance and Theater

Title: Can you hear us now...?

Faculty Sponsor: Professor Emily Stork, Theatre & Dance

Abstract: I interviewed over 50 black women across the nation and chose three stories to choreograph. I used TikTok to get my message across. I did this because black women are never heard when we express the adversaries we go through in America.

Motivation for Participating: I hope people learn to listen and not speak over black women.

Rheanna Barney (Panel 4)

Academic Major: History, Italian

Title: A Miraculous Failure: The 1616-1619 Smallpox Epidemic of Massachusetts Bay, and the Native American Response

Faculty Sponsor: Professor Thomas Lappas; History, Politics, and Law

Abstract: I wrote a paper on the 1616-1619 smallpox epidemic of the Massachusetts Bay Colony and its effect on the Indigenous population, aiming to focus primarily on the impact the epidemic had on Native Americans rather than on European colonizers. I chose to do this as there are already many accounts existing of how diseases such as smallpox affected Europeans in the Americas, but few accounts of the impact it had on Native populations

who were affected at a much higher rate. I used primary sources from both Indigenous voices and European voices who referred to the Native groups, though there were few, as this was a narrative I believed needed to be written about.

Motivation for Participating: I was unable to present in CARS last year, and after attending my first academic conference last semester, have been excited about the opportunity to share a work of my own with others! I put a lot of time and love into this work, and want to learn about how to present my work on a professional level ahead of my induction into Phi Alpha Theta later this semester, where I'll present as well.

Kate Paulus (Panel 4)

Academic Major: History and Inclusive Childhood Education

Title: A Constant Cycle of Appeasement

Faculty Sponsor: Professor Phillip B. Guingona; History, Politics, and Law

Abstract: Though many view appeasement as a weak foreign policy today, world leaders continue to use this policy when attempting to pacify an aggravated country. For example, former presidents Barack Obama and Donald Trump and current president Joe Biden used appeasement when dealing with President Vladimir Putin and his War on Ukraine. Similar to Neville Chamberlain, three recent U.S. presidents, and one past English Prime Minister have all used appeasement to avoid a bigger war breaking out. However, with all three of these leaders, appeasement failed to prevent war. My research focuses on the appeasement tactics used by recent American Presidents when dealing with Vladimir Putin and his War on Ukraine and how it compares tactics used on Hitler by Winston Churchill and Neville Chamberlain. My sources include government press releases, historical documents, statements from the leaders I discuss that show their thoughts on appeasement, and news articles that focus on appeasement policies and the varying levels of success that leaders have had applying it. In this paper, I demonstrate how appeasement is still used in our modern-day political system and how it still does nothing to end political conflict and warfare.

Motivation for Participating: I hope to better my oral skills from presenting at CARS.

Kendal McGill (Panel 5)

Academic Major: Communication Sciences and Disorders

Title: Adversity as an Advantage

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: Mental illness and trauma can often leave us feeling hopeless and overwhelmed. Through personal experience, I can assure you that the hardest part of healing is getting started. With the use of quotes, I have designed a subjective set of information that I wish I would have had during my mental health journey, that I hope can help to kickstart your own. Join me for some simple suggestions and advice on adversity.

Motivation for Participating: I hope I can reach at least one person who needs it.

Owen Hartel (Panel 5)

Academic Major: Psychology

Title: Synesthesia

Faculty Sponsor: Professor Elizabeth Belcher, Psychology

Abstract: I did a research project on synesthesia and it's links to autism

Motivation for Participating: I hope to push myself out of my comfort zone and expose myself to anxiety inducing stimuli.

Isabella Rehermann (Panel 6)

Academic Major: History

Title: "Take It Easy" to "The Sad Cafe:" The Eagles and the 1970s

Faculty Sponsor: Professor Timothy Kneeland; History, Politics, and Law

Abstract: 1) I wrote an essay about the Eagles discography and how it represents the 1970s 2) connected the music to various trends and themes of the decade as well as works such as The Culture of Narcissism by Christopher Lasch 3) Their music touches on a number of themes that describe and mirror what was happening during the decade.

Motivation for Participating: Presenting experience and skills that can help me later in my career.

Amanda Heron (Panel 6)

Academic Major: Communication and Media

Title: "She Cuts an Unlikely Figure": Eileen Chang and the Asian American Literary Tradition

Faculty Sponsor: Professor Phillip B. Guingona; History, Politics, and Law

Abstract: Eileen Chang (Zhang Ailing 张爱玲) was a prominent Chinese author and essayist whose most acclaimed works were written and published during the Japanese occupation of Shanghai in the 1940s. In 1955, she moved to the United States and remained there until her death in 1995. However, despite living in the U.S. for over half her life, Chang never rose through the ranks of widely-read Asian American authors, even though Google considers her an “American author.” Looking at the content of her writings and her biography, in conjunction with the criteria laid out by the Columbia Guide for Asian American literature, this paper shows that Chang remains outside of the current Asian American literary tradition, rendering scholars’ claims of her status as an (Asian) American author inaccurate. From this, this paper concludes that there is a need to reconsider the definition of the Asian American literary tradition, as Chang’s story functions as a case study for how it, in trying to be inclusive, excludes those who may not identify within the broad category.

Motivation for Participating: Bettering oral communication skills and articulating the research/writing process in the form of a presentation.

Katherine Markello (Panel 6)

Academic Major: Communication & Media, Dance

Title: The Perfectionism Epidemic: Dismantling the Dictatorial Hierarchy of Ballet

Faculty Sponsor: Professor Heather Acomb, Theatre & Dance

Abstract: Persistently striving for one more turn, a higher leap, longer lines, a better extension, or a few more degrees of turn-out, it seems as though dancers are relentless in their pursuit of enhancing their technique and performance. This drive or “fire,” as Misty Copeland, first African-American Principal Dancer with American Ballet Theatre, calls it, is responsible for the disciplined motivation dancers are highly regarded for. However, it can quickly become destructive, blurring the lines between discipline and perfectionism. Kathleen McGuire of Dance Magazine describes perfectionism as an “epidemic,” a crippling force which may ultimately derail an artist's career. “Perfect is the horizon that vanishes as you approach it,” yet, dancers continue to contend for unrealistic ideals (McGuire). As we collectively break the mental health stigma, dancers must not be left out, and it is imperative that dance educators learn to reframe traditional balletic instructional methods in order to prevent the harmful effects of the perfectionistic approach. This paper aims to explore how the perfectionism epidemic has evolved throughout the ballet lineage, focusing specifically on the Classical and Romantic eras, the Balanchine era, and the modern day dance world as we shift our focus from unattainable standards to more widespread acceptance.

Motivation for Participating: From presenting my work at CARS, I hope to gain the opportunity to share scholarly research within the academic discipline of dance with the larger campus community. I hope to learn applicable presentation and conversation skills as a panelist, enhancing my confidence in presenting my work to an audience.

Alexis Lakatos (Panel 6)

Academic Major: Clinical Laboratory Science and Chemistry

Title: The History and Love of Ranch Salad Dressing

Faculty Sponsor: Professor Heather Lewis, Mathematics

Abstract: Welcome to Hidden Valley Ranch! We are a dude ranch that is also dedicated to the discovery of ranch salad dressing. Before we begin, a dude ranch is considered to be

western vacation that is used as an escape from suburban life. There are still dude ranches today! First we will explore the discovery of ranch and how the love exploded across the country. Next we will explore the statistics of Americans and ranch. This included the average amount consumed and other fun information such as a ranch themed restaurant. After learning the “math” portion, we will look at the original ingredients and why they are used in dishes. Finally, we will observe the many flavors and uses of ranch dressing.

Motivation for Participating: Experience presenting and giving oral presentations.

Helene Becker (Panel 7)

Academic Major: Inclusive Early Childhood & Childhood Education and Mathematics

Title: Special Education in the USA

Faculty Sponsor: Professor Nicole Juersivich, Mathematics

Abstract: I presented about Special Education in the USA at the America Week Conference at the University of Pannonia in Veszprem, Hungary. The presentation was designed to introduce the basics and background of special education in the USA and provide examples of real special education classrooms. I took my first hand experiences from student teaching in two special education classrooms in different school districts to explain different features of special education. I also created a website containing the information from my presentation and more information and examples. I chose to present about special education in the USA because it is something that not a lot of people in the USA know about, let alone people in another country. There is a stigma around it in the USA that needs to be broken. Special education is not a bad thing, it is meant to help students get access to a free and appropriate education. The stigma around it needs to end, and that begins with knowing what it is, why it is important, and what it actually looks like in a classroom.

Motivation for Participating: I hope to be able to help educate people about special education, what it is, why it is important, and what it actually looks like in a classroom. By educating others about special education, I will be helping to break the stigma around it and provide real life examples of how to differentiate a classroom to make it more inclusive for all students.

Kaitlyn Lupia (Panel 7)

Academic Major: Social Work

Title: How Corporate Law and Policy Can be Used to Eliminate Human Rights Violations in Garment Industry Supply Chains

Faculty Sponsor: Professor Noel Wolfe; History, Politics, and Law

Abstract: I chose to write a research paper looking at the supply chains of various clothing companies to identify human rights violations within them. I was able to look at various sources talking about supply chains, why clothing is manufactured the way that it is and what is being done to right the wrongs being committed by the garment industry. I chose to do this because there aren't many people who know where our clothing comes from and who it is being made by and I think people have a right to know the atrocities that come out of the garment industry.

Motivation for Participating: I really just hope to gain more experience in public speaking, especially on a topic that I am extremely passionate about.

Cecilia DeGroff-Ceiri (Panel 7)

Academic Major: Inclusive Elementary Education & Psychology

Title: The Mental Health Crisis in American Colleges and Schools

Faculty Sponsor: Professor Heather Lewis, Mathematics

Abstract: I was recently given the opportunity to study abroad in Hungary. While in Budapest, I and others presented at a conference for America Week at the University of Pannonia. Due to the pandemic transitioning into an endemic, I have been noticing the systemic issues regarding mental health and our educational system. I gathered data from two studies and compared them to my own experiences as well as the resources and classes that are available at Nazareth College. There were no restrictions on topic choices, but when looking at overall health in an individual, mental health is typically either blamed for physical issues or ignored completely. This is especially true in Hungary where people are told to deal with their issues in private and continue with their days, keeping their

problems hidden from the world. I hope to bring awareness to these harmful ideas so that more people are given the courage to take actions to better their mental, social and physical health.

Motivation for Participating: I hope to gain confidence in my presentation and research abilities. I am looking forward to conversations with others about issues that they feel are important and problem-solving solutions so that we can lower the increasingly high number of Americans who are struggling with no assistance. I believe that it only takes one person to create change, so if I can be that person, or encourage another, I feel that facing my own anxieties is worth it.

Experiential Learning Pathway: International Experiences

Savannah DeVore (Panel 7)

Academic Major: History

Title: Rewriting their History: The United States Tries To Erase Their Racist Past

Faculty Sponsor: Professor Phillip B. Guingona; History, Politics, and Law

Abstract: I wrote a paper, analyzing whether the United States rewrote themselves as a heroes during World War II. The United States and the Allies won the war. Because they won the war, they rewrote the narrative to make themselves look like heroes. My paper analyzes whether or not the United States were really heroes. The United States committed many war crimes, the bombings at Hiroshima and Nagasaki, interning the Japanese Americans, and the killing of many civilians. Because the United States won the war, they were not held accountable for their crimes. Instead the United States pointed fingers at Germany and their allies for the war crimes that the axis powers had committed. I wrote the paper using articles from class and a little bit of outside research. I used the book Freedom Flyers by J. Todd Moyer. Moyer described the experiences of the Tuskegee Airmen and what their lives were like flying planes for the American military in World War II. I also used another article about FDR and the Allied response to the Holocaust and genocide of the Jewish population. FDR's response was delayed and historians are debating if whether or not Roosevelt had reacted much faster less Jews would have died. The reason that I wrote the paper was for a class assignment. The assignment was to pick one of the questions for the topics that we learned in class and analyze the question in 5-7 pages.

Motivation for Participating: I hope to gain experience in presenting papers.

Nicole Grace, Asha Gozzelin, Austin Torres, Heidi Ziervogel (Panel 8)

Academic Major: Social Work

Title: Developmental and Mental Well-Being of Families and Children in the US

Faculty Sponsor: Professor Carol Brownstein-Evans, Social Work

Abstract: This research explores the role of the family in child development and familial mental health and well-being. The research will use the CDC's child development basics and the Search Institute's Developmental Assets framework as a baseline for comparison to ideal child well-being. This project explores and evaluates a few key policies and programs available for children and families in the U.S, such as the Child Poverty Reduction Act of 2020, to achieve these goals. It will also examine the key therapeutic interventions used with children and families to promote healthy development. The analysis will connect to the UN goals to: end poverty in all its forms; end hunger, achieve food security and improved nutrition; ensure healthy lives and promote well-being at all ages; ensure inclusive and equitable quality education and promote lifelong learning opportunities; and achieve gender equality and empower women and girls. Principles from the Finnish approach to promoting healthy development and child and family well being will be identified and used to critique the U.S policies and programs to strengthen their impact on children and families. This project is part of the requirements for the Sustainable Global Future course, which includes a trip abroad to Finland. The research will again be presented to Finnish students to facilitate discussion about child development and familial mental health and well-being practices and policies in the United States versus in Finland.

Motivation for Participating: We hope to learn more about the benefits and consequences of current practices and policies as they relate to child development and familial mental health and well-being in the United States. We then hope to help educate CARS attendees on the topic and serve as advocates for programs and policies that garner positive results.

Experiential Learning Pathway: International Experiences

Performances

Hannea Milliman, Sydney Campbell, Lauren Entwistle, Annalyse Greider, Brielle Kos, Samantha Luba, Chiara Osborne, Kayla Ringler, Genevieve Vonahnen, Caroline Holley (11 am – 12 pm, Arts Center, A13)

Academic Major: Dance

Title: Master-Piece

Faculty Sponsor: Professor Cheryl Johnson, Theatre & Dance

Abstract: "Master-Piece" is a compilation of tap dance steps created and shared by African-American master tap dancers who inspired the revolutionary, mostly White women of the Tap Dance Renaissance. We plan to present historic steps and creative evolutions of these steps with a power-point presentation which acknowledges the artists that we represent including The Nicholas Brothers (Fayard & Harold), Jimmy Slyde (James Titus Godbolt), LaVaughn Robinson, Leon Collins, Gregory Hines, and the women that they inspired including Cheryl Johnson, Roxane 'Butterfly' Semadini, Germaine Ingram, Dianne Walker, Lynn Dally, and Jane Goldberg.

Motivation for Participating: We plan to present historic steps and creative evolutions of these steps with a power-point presentation which acknowledges the artists that we represent including The Nicholas Brothers (Fayard & Harold), Jimmy Slyde (James Titus Godbolt), LaVaughn Robinson, Leon Collins, Gregory Hines, and the women that they inspired including Cheryl Johnson, Roxane 'Butterfly' Semadini, Germaine Ingram, Dianne Walker, Lynn Dally, and Jane Goldberg.

Experiential Learning Pathway: Mentored Creative Activity

Alexandra Horgan, Chloe Bush (11 am – 12 pm, Arts Center, A13)

Academic Major: Dance, Anthropology

Title: Coming to Terms

Faculty Sponsor: Professor Heather Roffe, Theatre & Dance

Abstract: I choreographed a contemporary dance solo to reflect my experience as someone in the LGBTQIA+ community. Its title, "Coming to Terms", is a play on the term "coming out". It represents the experiences that LGBTQIA+ people have after coming out; even if they accept themselves, they still face judgement and often struggle to form meaningful relationships because of it.

Motivation for Participating: I hope to have the opportunity to display my choreographic abilities.

Hannea Milliman, Chiara Osborne, Annalyse Greider, Genevieve Vonahnen, Erin White, Lillian Thatcher (11 am – 12 pm, Arts Center, A13)

Academic Major: Dance

Title: The Unraveling

Faculty Sponsor: Professor Mariko Yamada, Theatre & Dance

Abstract: "The Unraveling" is a dance piece created to showcase the power dynamics that occur in a workplace. It explores how we can work together to dismantle these dynamics to create an environment where everyone is equal. The creative process behind this piece was challenging, however, through the act of research, both using online resources and my individual movement exploration, I found ways to present this problem through creative movement and props.

Motivation for Participating: Through presenting my piece at CARS, I hope that I can educate other people about the work that is accomplished in the dance department. While our department has technique courses, we also participate in writing, readings, research, and presentations. Dance in education teaches you new ways of thinking, writing, and speaking about dance.

Experiential Learning Pathway: Mentored Creative Activity

Jennifer Roush (11 am – 12 pm, Arts Center, A13)

Academic Major: Dance Studies, Psychology

Title: INTOSSICATO, or the imperfect process of finding one's artistic voice

Faculty Sponsor: Professor Mariko Yamada, Theatre & Dance

Abstract: 1) I created a solo dance work that is approximately 4 minutes and 30 seconds long in order to showcase the process by which a dance goes from idea to final product, and to emphasize the individuality in everyone's artistic undertakings. 2) I developed my own choreographic process, based in improvisation and self-reflection 3) I did this because I believe it is important to share how difficult it is to discover your own unique brand of self-expression and artistry, and how obsessing over perfection and continuous productivity can be harmful. As an artist, I believe it is important for us to share our struggles with each other, as well as our insights into how we find fulfillment in our craft.

Motivation for Participating: I hope to be able to share my choreography and insights with others, and show them that the process of creating something, as well as the resulting product, is personal, and this is not something to be feared, but rather embraced. Creating art, especially when you know it will be shown to others, is intimidating, and there is pressure to create it in a certain way. I would like to encourage people to be unashamed of their work, and vulnerable enough to share it.

Connor Barton, Alexandra Cooke, Maggie Dzina, Rebecca Faulk, Renee Haley, Katy Hawthorne, Tyler Kelly, Michael King, Jaiden Leo Riley, Ava Massaro, Jade McGlynn, Nick Orion Brown, Weston Pytel, Immanuel Rodriguez, Noah Robert, Harrison Sakai, Adam Shank, Reese Stojanovski, Austin Skyes (3pm-4pm, Callahan Theatre, Arts Center)

Academic Major: B.F.A. Musical Theatre

Title: Department of Theatre & Dance - Show People from "Curtains"

Faculty Sponsor: Professor Nolan Todd, Theatre & Dance

Abstract: This musical number is from our Spring Main Stage musical "Curtains" featuring Musical Theatre majors here at Nazareth College.

Motivation for Participating: We hope to represent our department and share the creativity and passion that the Theatre & Dance Department brings to our campus.

Poster Presentations

Colin Harrington (#1)

Academic Major: Biology/Toxicology/Public Health

Title: Reflections on my Public Health Internship

Faculty Sponsor: Professor Kathleen Walker, Nursing

Abstract: I will be showcasing a poster with reflections on my public health internship. For my internship I worked at the soil health labs at Cornell University. I wanted to gain some lab experience as well as learn about how soil health can play a role in public health.

Motivation for Participating: I hope to gain valuable presenting experience as well as inform people about the work being done at the soil health lab.

Brooke Desmarais, Taylor Griffin, Reed Baker, Jenna Bugbee (#2)

Academic Major: Communication Sciences and Disorders

Title: Cracking the Conversational Code

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: The neurogenic communication and cognition clinic (NC3) on the Nazareth Campus works with those who have had a traumatic brain injury, brain tumor, stroke, etc. This semester, a handful of students had the opportunity to work with those in the NC3 clinic. Students from a senior Communication Sciences and Disorders (CSD) capstone community engaged learning course were paired up with participants in the NC3 clinic via zoom and in person to create friendships and converse. This provides a meaningful experience across generations for both the students in the Communication Sciences and Disorders program and the participants involved in the NC3 clinic by explaining their life experiences together while building their friendship. Clients and student participants met weekly for a short period of time and spoke about topics that interested both of them (traveling, sports, family, life experiences, etc). These small gatherings provide novel opportunities for students and NC3 participants to create deeper understandings and

connections with diverse populations.

Motivation for Participating: We hope to educate others, advocate for these experiences, and present our individual experiences on a topic that many people may not be aware of.

Experiential Learning Pathway: Noncredit Bearing Community Engagement

Dylan Ray, Logan Warner, Hengjunyu Zhao, Joshua Kowalski (#3)

Academic Major: Business Leadership

Title: X-Culture

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: For X-culture we were placed in a team of 5-6 people from around the world to complete a business research project for a company that was chosen by us. The list of companies was created by the organization x-culture. In this project we had to use various forms of communication to collaborate with our teammates who were located in various locations around the world. We did this as a part of a class requirement but also for a unique learning experience that taught us how to collaborate with international students.

Motivation for Participating: We are hoping to show off a unique project that we were all apart of.

Experiential Learning Pathway: Student Leadership, International Experiences

Chiara Osborne (#4)

Academic Major: Dance Studies, Museums Archives & Public History

Title: Form to Abstraction: Moving from Class to Choreography

Faculty Sponsor: Professor Heather Roffe & Catherine Olson, Theatre & Dance

Abstract: I created this presentation to demonstrate how dance classes serve as a somatic movement exploration for myself that I can then translate into creating new choreographic work. I chose this topic as it is extremely relevant to my personal practice as a dancer.

Motivation for Participating: I hope to be able to share my love of dance with audiences who may not be familiar with the dance world. As well, I'd love to hear feedback from those unfamiliar with dance and how the poster impacted their view on the Nazareth dance program itself.

Hannah Smith, Jessica Granchelli, Sofie Fischler (#5)

Academic Major: Biomedical Sciences

Title: Incorporating HPLC into the Biochemistry Laboratory Curriculum in an Innovative Way

Faculty Sponsor: Professor Amber Flynn Charlebois, Chemistry and Biochemistry

Abstract: The purpose of this research is to develop an experiment that incorporates high-performance liquid chromatography (HPLC) into the biochemistry laboratory curriculum in an innovative way. With this experience, students will utilize HPLC to explore several important biochemistry concepts simultaneously, including intramolecular interactions in protein structure, disulfide bond manipulation, and oxidation-reduction in the protein. Using this method we have investigated a few small monomeric proteins including lysozyme found in chicken egg white, bovine pancreatic trypsin, trypsin inhibitor (aprotinin), and ribonuclease A. The chromatographic method, native storage conditions, denatured conditions, and reduced conditions were optimized for each protein. The retention times of the native, denatured and reduced forms of each protein were analyzed and compared. We hope to incorporate this experiment into the biochemistry laboratory curriculum this coming spring.

Motivation for Participating: We hope to be able to display our research that we have been working on and discuss the advancements we have made over the course of the year.

Hannah Bardeen, Finn Dolce, Erin Cook (#6)

Academic Major: Dance and Psychology, Adolescent History, Studio Art

Title: Hydrate or Die-drate: Investigating Electrolyte, Sugar, and Caffeine Content in Drinks Sold on Nazareth College's Campus

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: Currently, there is much debate over what drinks are actually healthy. Are sports drinks filled with electrolytes actually helping your body, or hurting it with the amount of sugar packed into it? Are fruit juices better choices than sodas or protein drinks? We investigated which drinks sold on Nazareth College's campus are the healthiest by testing electrolytes and analyzing sugar and caffeine amounts present in 11 different drinks. Using conductivity probes, nutrition labels, and referencing research on specific drinks allowed us to reach our conclusion. As conscious consumers on campus, we should know how different drinks on campus are impacting our health.

Motivation for Participating: We hope that sharing our research with the Nazareth College community will make them more conscious consumers while on campus.

Jamie Hogancamp, Bradie Harris, Nathan Bowers, Nina Demilta, Matthew Roberson, Maria Rollinson, Ariana Montalvo (#7)

Academic Major: Communication Sciences and Disorders

Title: From Ruins to Rebirth: Witnessing the Resiliency of Humankind in Cambodia

Faculty Sponsor: Professor Corinne Dempsey and Professor Joshua Fess, Religious Studies

Abstract: Over winter break, nine undergraduate students of various majors traveled to Cambodia and immersed themselves in the Khmer culture while learning about justice and memory, sustainability, and religion. We learned about how Cambodia has recovered and rebuilt from the Khmer Rouge, and became witnesses to the parts of history that may get overlooked or ignored— while especially acknowledging our role as Americans. We visited permaculture education farms to learn about the importance of sustainable, innovative, and disaster-resilient farming, and how Cambodians are able to support themselves and the environment. Another highlight of our trip was visiting ancient temples, including Angkor Wat, and learning the history behind these breathtaking historical sites. We saw how a country has been able to find peace, prosperity, and unity despite tragedy and destruction. We did this by visiting various museums, including the Killing Fields, S21 Prison, the Cambodia Landmine Museum, and the Cambodia Peace Museum, as well as working with community partners, such as Tiny Toones, Sokha Farm, and Community Based Tourism. We immersed ourselves in Cambodian culture by meeting and living with local people in their communities and learned the power of peace.

Motivating for Participating: As changemakers, we hope to show others the rich history and culture that Cambodia offers, and how a country can find peace and prosperity despite tragedy and destruction. We hope to shed light on a part of history that may be uncomfortable for us to acknowledge, but nevertheless necessary. We hope that the knowledge we share can inspire others to cultivate unity and peacefulness within their community.

Hengjunyu Zhao (#8)

Academic Major: Business Management

Title: Firearms and Inequality

Faculty Sponsor: Professor Yousuf George & Professor Nicole Juersivich, Mathematics

Abstract: I researched how can gun violence affect society, and how the social inequalities has been deepened by it. I collected statistics from police department reports and analyzed it. The crime type will be mainly gun related violence and direct gun violence. I did it because I am from a different culture, US has more gun than people has been well known. I want to know how can gun violence affects the society and how can we change it.

Motivation for Participating: I hope to learn that we can do something to change and improve the society.

Madison Darrell (#9)

Academic Major: Museums, Archives & Public History; History; and French

Title: Museums for the Public, Labels Written by the Public: Shared Authority, Diversity, and Inclusion in Practice

Faculty Sponsor: Professor Timothy Kneeland; History, Politics, and Law

Abstract: In 2022, I participated in the “Museums in the 21st Century” summer study abroad program. This trip introduced me to the concept of visitor-written object labels. This post-trip research focuses on how these labels enhance museum objectives and visitor

experiences by analyzing museums that have implemented similar projects. Museums are not neutral. They present a narrative of what they want an audience to take away from an exhibition through their labels, and those who control the narrative have authority over it. In the recent decades, museums have worked to revise the wrongs and misrepresentations of the past by expanding not only the narrative but also those involved. Museums are designed for the public, thus the public can have a major impact on museums. More and more institutions are asking their audiences to become involved, and not just as donors. They are adopting collaborative curatorial projects into their everyday practices to address the needs of the community they serve. Through this community engagement and sharing of authority, modern-day museums develop into centers of dialogue, diversity, and inclusivity for all.

Motivation for Participating: I hope to gain experience in a more "informal" presentation style and share a topic that really intrigued me. It was something that I had never heard of before and I think that it could benefit everyone (not just public historians and those interested in museums).

Experiential Learning Pathway: International Experiences

Jamie Hogancamp, Nyelah O'Meally, Caroline Csont (#10)

Academic Major: Communication Sciences and Disorders

Title: Creating Positive Change in Physical Spaces: Advocating for Accessibility at Nazareth

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: The purpose of this community engagement project was to create a safer and more inclusive campus by providing more accessibility and safety information for all students, staff, faculty and guests. This project also allowed us to take leadership opportunities on campus in a way that creates lasting change. As undergraduate seniors in the Communication Sciences and Disorders major, we have been discussing the importance of advocating for our community through our Community Engaged Learning course. We were able to put our changemaker education to practice and gain a deeper understanding of the importance of accessible spaces by petitioning for more accessible information on campus.

Motivation for Participating: We hope members of the Nazareth community will gain the

knowledge to become more aware of accessible spaces on campus. Through interacting with our presentation, individuals will have the opportunity to reflect on their own experiences in terms of accessibility. As the facilitators of this project, we are learning how to advocate for positive change through collaborating with faculty and staff, assessing accessibility in academic buildings, and spreading awareness of the importance of creating an inclusive campus climate.

Maggie Davison, Owen Riley, Maddie Brown, Maggie Pfalzgraf (#11)

Academic Major: INCH and English, Marketing, Psychology, Business

Title: Are your hands really clean?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: In our experiment we tested the effectiveness of a variety of store-bought and do-it-yourself hand sanitizers. The purpose was to determine which hand sanitizer was the most effective at removing bacteria from our hands as hand washing is not always available on the go. We also wanted to know if the price or brand of the product impacted the effectiveness of the hand sanitizer. To conduct this experiment, we collected bacteria from the hands of volunteers before and after using these products to determine which hand sanitizer was able to kill the most bacteria from hands.

Motivation for Participating: We hope to be able to see all of the different research that was done and the creativity of all of our fellow Nazareth peers.

Katherine Markello (#12)

Academic Major: Communication & Media, Dance

Title: Dance for All Ages: Community Collaboration with The Highlands at Pittsford

Faculty Sponsor: Professor Allison Thomashefski & Professor Mariko Yamada, Theatre & Dance

Abstract: This semester I have the privilege of collaborating with The Highlands at Pittsford local retirement community to share the joys of dance with their Assisted Living and

Memory Care residents. Each week I lead the group in a brief, upbeat seated movement class in which we aim to enhance coordination, improve balance, and boost physical reaction time all while engaging with rhythm. These lessons are planned in alignment with my Dance Pedagogy as well as my Dance Therapy training, aiming to incorporate the elements of dance - body, effort, space, and time - to promote engaging, meaningful movement. Dance not only lifts the spirit, but brings numerous physical benefits for seniors, as the embodied experience has been linked to better cardiovascular health, developed strength and endurance, increased energy levels, regained agility, and greater cognitive function, amongst others. The low-impact adaptability of dance makes it the perfect workout for geriatric populations to enable more movement while also engaging in social interaction and stimulating the production of serotonin. The residents teach me just as much, if not more, than I teach them, and I look forward to continuing our time together throughout the course of the semester.

Motivation for Participating: From presenting my work at CARS, I hope to gain the opportunity to share scholarly research and field experience within the academic discipline of dance with the larger campus community. I hope to learn applicable presentation and conversation skills and gain the confidence to engage personably about my work.

Experiential Learning Pathway: Service Learning

Maria Foisy, Julia Bergett (#13)

Academic Major: Biomedical sciences & Public Health, Nursing & Public Health

Title: Holistic Health Approach for Aging Adults

Faculty Sponsor: Professor Kathleen Walker & Professor Nicholas Gerbino, Nursing

Abstract: Holistic health is a crucial aspect of healthy aging. Holistic care focuses on all aspects of a person's life including physical, psychological, social, and spiritual. Receiving care that is focused on the patient as an individual can lead to a happier and healthier life for them. For Public Health senior capstone we collaborated with the Sisters of St. Joseph and created activities to expand their knowledge regarding holistic health. After providing the sisters with the overall benefits of holistic care, we began to lead them in chair yoga with a focus on deep breathing. We also worked on strength training by providing them with resistance bands and appropriate exercises. The goal of our activities are to give the sisters of St. Joseph the tools to make a difference in their own health, and to remind aging

adults that they are more than their diagnosis.

Motivation for Participating: Hope to gain the experience of presenting information professionally, as well as share what we have learned.

Experiential Learning Pathway: Student Leadership, Mentored Creative Activity

Kiara Roman, Sandra Perkins (#14)

Academic Major: Biomedical Science

Title: HPLC Analysis: The Reduction of Benzophenone to Diphenylmethanol

Faculty Sponsor: Professor Amber Charlebois

Abstract: High performance liquid chromatography (HPLC), is a technique used to separate, identify, and analyze mixtures of organic solutions based on the polarity of the bases. This research project focused on introducing and implementing reverse-phase HPLC technology into the undergraduate laboratory in organic chemistry. We can utilize a typical organic reaction such as the reduction of benzophenone to diphenylmethanol, to examine this separation technique. In addition to the IR and NMR characterization of our product, HPLC will provide another avenue for identification and analysis. The goal of incorporating HPLC techniques into the organic chemistry curriculum in this manner will provide access to the very important technique

Motivation for Participating: We hope to gain more experience at performing to a bigger audience and inform people about the importance of HPLC as a way to verify you have the correct product after performing reactions in organic chemistry.

Nicole Engel, Grace Kelleher (#15)

Academic Major: communication sciences and disorders

Title: The Art of Building a Bench: Building a Foundation for Life

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: The Neurogenic Communication and Cognition Clinic (NC3) at Nazareth College

provides support such as speech, language, and cognitive services to adults who have had a traumatic brain injury (TBI) or stroke. Wellness groups in NC3 allow for reciprocity; as students, we are learning about how to communicate with people who have been affected by a complex communication disorder. Additionally, we learn from our colleagues in occupational therapy about their work and the importance of collaboration. Within the NC3 clinic, wellness groups have been created to help clients practice skills learned in therapy and afford students from different disciplines to engage with the clients and create a shared experience. Woodworking and Quality of Life are two wellness groups that have provided us with a better understanding of what each person experiences and how to support each other in our journeys. The purpose of this poster is to emphasize the benefits of the shared experience for both students and participants in these wellness groups.

Motivation for Participating: We hope to share the importance of wellness group and the impact it has on all participants.

Experiential Learning Pathway: Service Learning

Laura Wilhelm (#16)

Academic Major: Physical Therapy and Psychology

Title: The Impact of Seated Yoga on State Anxiety and Test Scores in College Students

Faculty Sponsor: Professor Lindsey E. LaPlant, Psychology

Abstract: This study was conducted to determine the effect of a 10 minute seated yoga intervention on student test scores and state anxiety. Participants either completed a yoga routine or watched a control video before taking a test and completing the STAI. Participants who practiced yoga had significantly lower state anxiety than those who did not, while no differences in test performance emerged. These findings suggest short-term yoga interventions may reduce state anxiety in college students. I completed this project as a part of my PSY202 class and presented it at the Eastern Psychological Association Conference in Boston on 3/3.

Motivation for Participating: I hope to gain experience presenting my research. I also hope to inspire my fellow students to do research in their own fields of interest. This project is about something I am passionate about so I am excited to share it with others who may have similar interests and a desire to try doing research!

Sandra Perkins, Rashid Saleh (#17)

Academic Major: Biomedical Sciences

Title: An enhanced ester synthesis for undergraduate organic chemistry experiment using microwave technology

Faculty Sponsor: Professor Stephen Tajc, Chemistry & Biochemistry

Abstract: Microwave technology allows for a more efficient reaction that drastically decreases synthesis time compared to traditional organic chemistry techniques in an undergraduate laboratory experiment. This allows increased time for incorporating guided inquiry, spectroscopic identification, and the analysis of final products. This research explores the development of a novel undergraduate organic chemistry experiment using microwave assisted synthesis. Acetic anhydride and various alcohols were used to synthesize both known and unknown esters. Guided inquiry was utilized for identification of unknown alcohol starting materials through thin layer chromatography (TLC). In addition, spectroscopic techniques, including ¹H NMR and FT-IR, were used to characterize final products and reaction purity.

Motivation for Participating: We hope to gain a greater understanding of the material as well as practice.

MacKenzie Badgley, Sabriya Mustafa, Morgan Cornell (#18)

Academic Major: Communication Sciences and Disorders

Title: Working on Wellness Across the Ages

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: We are students in the Community Engaged Learning (CEL) capstone course in Communication Sciences and Disorders, who had the opportunity to work in the NC3 clinic. The Neurogenic Communication and Cognition Clinic (NC3) at Nazareth College supports clients who have had traumatic brain injuries (TBI) and/or strokes. The NC3 clinic has

created wellness groups to allow the participants a venue for social interaction and to practice learned communication skills. Supporting these wellness groups gave us an opportunity to interact with a population that we haven't worked with before and to learn new ways to communicate with them. Our role in the groups was to work together with the participants from NC3 to create a shared experience and learn from each other. This poster is going to highlight our experience in this mutually beneficial partnership and share reflections from members of both groups.

Motivation for Participating: We hope to share our personal experiences working with a new population as well as things we have learned from interacting with the participants.

Experiential Learning Pathway: Service Learning

Abbey Luth (#19)

Academic Major: Psychology

Title: The Influence of a Controlling Coaching Style on Anxiety and Athlete-Identity in NCAA Student-Athletes

Faculty Sponsor: Professor Courtney Forbes, Psychology

Abstract: The purpose of this study is to evaluate the relationship of controlling coaching style and its affect on student athlete's anxiety and identity. Current NCAA Student-Athletes were surveyed asking them about their personal experience with anxiety, identity, and interactions with coaching style. The data was then collected to analyze the relationship among the variables. Anxiety, among other mental health concerns, are very prominent in the world of college athletics. This study aims to examine the impact of coaching style on the experience of NCAA student-athletes in general, as well as their mental health.

Motivation for Participating: I hope to better my presentation skills and I look forward to the questions that people have about my work. I also hope that some coaches at Nazareth see the study and I hope it helps them better understand how their student-athletes view their coaching style, as well as how interactions among coaches and student can significantly impact the cognitive state of student-athletes.

Skylar Cryslar, Kendall McGill, Sierra Belardino (#20)

Academic Major: Communication Sciences and Disorders

Title: Allergens @ Naz, Is it safe?

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: Through social media and word of mouth, concerns continued to be shared from students with allergies regarding their pleasure and safety in dining at Naz. Our goal is to find active solutions to make the dining experience a safe and enjoyable one for everyone. Join us to complete an individual survey, share your stories, and brainstorm solutions. This information will all be shared with administrators who can help us make a change!

Motivation for Participating: advocacy skills

Addison Wallace (#21)

Academic Major: Chemistry, Art History

Title: Using Chemistry to Reveal the History of Art

Faculty Sponsor: Professor Josh Newby, Chemistry & Biochemistry

Abstract: Art conservation exists in the frequently overlooked conjunction of art and science, which many do not acknowledge as they are unaware of the clear evidence of its value. To preserve and restore a work, one must understand how it was made. Tucked away in the Lorette Wilmot Library is a masterful copy of Andrea del Sarto's Madonna of the Harpies. Very little is known about this copy. Without a history or reason for being there, this six-by-seven foot canvas in a gilded frame collected dust for years with no story to give it value. When records of the work's journey are not available, we can look to scientific methods to help us. X-ray fluorescence (XRF) has become a pivotal technique in the research, authentication, and preservation of paintings in recent decades. XRF is a non-invasive technique that allows us to measure the amounts of metals in a sample. In this work, we have mapped out the metal content of the painting using XRF to help identify what pigments may have been used in its creation. An analysis of these measurements and a historical perspective of this piece will be presented in this poster.

Motivation for Participating: By participating in CARS, I hope to highlight the overlap of art and science that most don't recognize and learn how to format my data in an easy-to-understand way.

Experiential Learning Pathway: Mentored Research

Sofie Fischler, Alexis Lakatos (#22)

Academic Major: Biochemistry, Public Health

Title: The Comparative Study of Metal-Free and Metallated Porphyrins

Faculty Sponsor: Professor Sanela Lampa-Pastirk, Chemistry & Biochemistry

Abstract: Porphyrins play an essential role in many areas of scientific research due to its unique structural and electronic properties. Many of the metal-free porphyrins are naturally occurring pigments, while metallated porphyrins play a critical role as cofactors in essential biochemical processes involving transport of oxygen or charge transfer in photosynthesis. The porphyrin macrocycle consists of four pyrrole subunits containing nitrogen. These subunits are linked together by methine groups forming a large, planar ring. We synthesized the tetraphenylporphyrin (TPP) utilizing method Nascimento et al where the reaction between pyrrole and benzaldehyde is initiated and catalyzed by addition of thermal energy. Energy is supplied to samples via microwave radiation. Subsequently, the metal is inserted into the TPP macrocycle following the Nascimento et al procedure. The product is purified using gel chromatography, and TPP content in eluted fractions was monitored with UV-Vis spectroscopy. The structure and characteristics of metal-free and metalated products are studied utilizing NMR and FTIR spectroscopy. The analysis of structure can be used towards developing biomedical applications studying biological porphyrins and potential therapeutic developments.

Motivation for Participating: Experience presenting a poster at a conference that will prepare us for graduate school.

Alex Foley (#23)

Academic Major: Clinical lab science

Title: Do you know Jak?

Faculty Sponsor: Professor Matthew Schoell, Clinical Lab Science

Abstract: I'm going to do a poster on a case study explaining the jak 2 mutation and it's diseases.

Motivation for Participating: Gene Dosage

Vanessa Parra, Maria Kasarda, Caroline Coleman (#24)

Academic Major: INCH & Psychology, Adolescence Education & History, Psychology

Title: Does the Price of Hand Soap Really Matter?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: The purpose of our experiment was to test the effectiveness of hand soaps ranging in prices. In a new world where everyone seems more germ-cautious, it can be overwhelming looking at how many hand soaps are on the market. Our group investigated foaming hand soaps ranging in prices from as little as a dollar to \$8 to see if there was a difference in effectiveness; the hypothesis being that all hand soaps will have the same effectiveness and that price would not matter. Our hands were swabbed to see what bacteria was on them before and after washing our hands to see which hand soap did the best job.

Motivation for Participating: Presentation Skills

Andrew Vogler (#25)

Academic Major: Biochemistry

Title: Extraction of Calcium and Strontium from Contaminated Wastewater Using Dipicolinic Acid

Faculty Sponsor: Professor Stephen Tajc, Chemistry & Biochemistry

Abstract: The Environmental Protection Agency recommends treatment of freshwater when Total Dissolved Solids (TDS) concentrations exceed 500 mg/L.⁴ Numerous industrial mining processes produce wastewater with elevated TDS levels.¹ While many of these processes are essential to everyday life, optimal methods for TDS management remain sought after. Dipicolinic acid, a small molecule synthesized by *Bacillus subtilis* bacteria, was investigated here due to its known ability to chelate various metals.¹⁰ Using various techniques such as isothermal titration calorimetry (ITC) and UV-Vis spectroscopy, dipicolinic acids binding and stoichiometry relative to group II metals was measured. Additionally, using flame atomic absorption spectroscopy the level at which DPA sequesters calcium from aqueous solution was quantified.

Motivation for Participating: I seek to make other students interested in research as well as showing the potential impact research may have.

Experiential Learning Pathway: Mentored Research

Aaron Soltis, Rowan Morgan, Enoch Li (#26)

Academic Major: Music Composition

Title: Cecile Genhart: The Legacy of a Master Teacher through the 21st Century

Faculty Sponsor: Professor Bonnie Choi, Music

Abstract: For this poster presentation, we researched Cecile Genhart and her influences on the world of piano pedagogy. We read through dissertations that detailed her life's workstory and her impact as a teacher in association with the Eastman School of Music. We also interviewed 2 of her former students (who are faculty at Eastman and here at Nazareth) to learn about Genhart at a more personal level and how her teaching styles impacted their teaching style. The art of piano pedagogy is an important task to study and analyze for future educators. As a requirement for this course (titled "Piano Pedagogy I") we felt it was appropriate to research an influential master piano teacher in this field and find out how she was able to make such a substantial contribution to the world of piano pedagogy.

Motivation for Participating: CARS is a wonderful opportunity for students to showcase the skills and knowledge they have acquired from their courses to the community. We strongly believe that presenting at CARS will give us the capacity to learn more about the professional application of research at a higher level of study. We look forward to seeing what new experiences we can gain from this event and we hope to provide greater insight for students, faculty, and more into the world of piano pedagogy.

Experiential Learning Pathway: Mentored Creative Activity, Mentored Research

Arianna Martin, Isabelle Fitch, Ella Matthes (#27)

Academic Major: Art Education

Title: Which Nazareth Residence Hall is the Grossest?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: This experiment investigated the cleanliness of various residence halls on campus. Door handles of each hall were swabbed and transferred into petri dishes and bacteria was allowed to grow. We documented our findings over the incubation period with both writing and pictures and analyzed our findings to determine the cleanliness of each residence hall on campus.

Motivation for Participating: We hope to gain a deeper understanding in science in general and into the science of bacteria.

Adriana Costanza (#28)

Academic Major: French

Title: Bird's Eye View of The Gender Wage Gap

Faculty Sponsor: Professor Yousuf George & Professor Nicole Juersivich, Mathematics

Abstract: Did you know that the gender wage gap is caused by women being pushed into lower-paying careers? -75% of the highest-paying jobs are dominated by men, and 70% of the lowest-paying jobs are dominated by women. This is an important issue to address because it directly affects such a wide range of people, as well as their families and quality

of life.. Many women being paid only a number of cents on each dollar a man makes are working just as hard and deserve to be paid equally. Equality and fairness are worth fighting for. There is no singular, uncomplicated, or easily fixable cause for this issue, which makes it difficult to address. However, there are still some strategies to urge change on a company, state, or national level. One manageable place to start is increasing pay transparency. Many people have it instilled in them not to discuss pay with their coworkers. Most workplaces are actively discouraging this because the secrecy of wages has allowed them to underpay certain workers for so long. According to the National Bureau of Economic Research, adopting transparent pay practices can help to narrow the gender pay gap by up to 30%. At the individual level, employees and managers can improve pay transparency by promoting open, honest discussions about compensation within the workplace.

Motivation for Participating: I hope to gain experience in public presentation skills while also informing people about a topic I am passionate about. I think it is a great way to reach a wide range of people to inform about an issue and possibly spark a demand for positive change.

Ben Chaddock, Emma Gurney (#29)

Academic Major: History/Adolescent Education grade 7-12

Title: How does alcohol affect the plants

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: We will be conducting an experiment with 21 plants and using Isopropyl, methanol and ethanol to see if these alcohols will affect these plants. There will be 3 plants for every alcohol used and these plants will be held in the Nazareth colleges green house and will be watered 3 times per week for 2 weeks. We did this experiment to prove if there are better or worse ways to care for plants.

Motivation for Participating: How to conduct an experiment in an organized fashion and present information in a concise and simple way.

Abigail Cronin (#30)

Academic Major: Psychology

Title: Beyond the Algorithms: Connection Between Social Media Ads, Self-Objectification, and Math Abilities

Faculty Sponsor: Professor Lindsey LaPlant, Psychology

Abstract: The purpose of this research study was to determine the effects of social media advertisements on self-objectification and math ability. This builds on previous research by Garcia et al. (2021) and Fredrickson et al. (1998), who examined social media and self-objectification, and self-objectification and math ability, respectively. In the present study, social media advertisements were manipulated to determine the impact on self-objectification. The purpose of this study was to determine the effects of social media advertisements on self-objectification and math ability. It builds off of previous research by Garcia et al. (2021) and Fredrickson et al. (1998) looking at social media and self-objectification, and self objectification and math ability, respectively. Social media advertisements were manipulated to determine impact on self-objectification and math ability. Significant results were found for targeted ads and belief that one could control one's body.

Motivation for Participating: I hope to gain additional experience with presenting research in an academic setting and get more comfortable with public speaking skills.

Brianna Villegas, Idalis Torres (#31)

Academic Major: Psychology and Education

Title: What Exactly is in The Water at Naz?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: In the experiment we tested the drinking water from various locations around campus to determine the water quality of the water consumed on campus. We wanted to know what is in the water that we consume regularly from the various sources on campus. Samples were taken from water bottle refill stations, the water option in the soda machines, tap water from various sources on campus, and bottled water options. We tested the water for pH, hardness, and concentration of nitrates, nitrates, metals, and ions to determine the quality of drinking water from each source.

Motivation for Participating: I hope to develop my presentation skills as well as have the opportunity to demonstrate what I've learned in my science class.

Annabelle Carney (#32)

Academic Major: Biochemistry

Title: Complexation of γ -butyrolactone with water: determining the complex geometry by computation and matrix isolation FTIR spectroscopy

Faculty Sponsor: Professor Josh Newby, Chemistry & Biochemistry

Abstract: The γ -butyrolactone (GBL):water complex was computed and analyzed using computational chemistry and matrix isolation FTIR spectroscopy chemistry to determine how formation would look in nature. This analysis consisted of complex energies, geometry optimizations, and vibrational frequencies calculated with Gaussian16. Hydrogen bonding was observed as the primary interaction between the water monomer and GBL's oxygen atoms, dominated by the carbonyl and water interaction. A transition state between likely complexes was identified with a high energy barrier, limiting the isomerization of the structures. Isotopic analysis was used to account for the presence of water isotopes in a sample. Matrix isolation FTIR at ~ 15 K was employed to experimentally verify the formed complex. A hydrogen bond interaction between water and the carbonyl was identified using FTIR. Additional matrix isolation FTIR experiments are necessary to sufficiently support the precise interactions and physical characteristics discovered in the complex.

Motivation for Participating: Professional presentation skills

Brooke Yoder, Mario Zitella (#33)

Academic Major: Occupational Science

Title: Wage Gap Disparity

Faculty Sponsor: Professor Yousuf George & Professor Nicole Juersivich, Mathematics

Abstract: Women get paid less than men for a variety of different reasons. Mothers are more likely to reduce their work hours and turn down a promotion in comparison to fathers. Men tend to work more, on average they work more hours in a week regardless of their marital status. Men ask for raises more often and tend to negotiate higher starting wages. It is important because women should be paid the same as men and understanding the true factors that lead to wage gap would help close the gap by doing all the things that men do that lead to higher wages. We are calling women that seek equitable wages to give themselves every advantage by becoming skilled in negotiating so you can negotiate a higher starting wage, feel more confident to ask for raises more often, and work more hours per week.

Motivation for Participating: Perspective

Brianna Wind, Colin Harrington, Maria Foisy, Mykailah Kelly (#34)

Academic Major: Biology

Title: Toxic Metals In Lip Products

Faculty Sponsor: Professor Stephanie Zamule, Biology

Abstract: In this study, we assessed levels of heavy metals in 18 lip products of a variety of brands and price-points purchased at Ulta Beauty in order to determine if any exceeded the limits set by the FDA by using the XL2 analyzer device. We did this research because lip products are prevalent and are often accidentally ingested, having direct contact with the body, therefore, it is important to know what is in these products.

Motivation for Participating: We hope to provide knowledge to the public regarding heavy metal content in lip products, as well as, to gain experience presenting scientific research.

Experiential Learning Pathway: Mentored Research

Chase Dunn, Kyle Pero, Braeden McKercher (#35)

Academic Major: Business Management

Title: X-Culture Global Virtual Team Experience: Garne Market Entry Strategy

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: In this poster, the team of Chase Dunn, Kyle Pero, and Braeden McKercher will discuss their intensive global virtual team project on Garne. Garne is a fully online women's clothing company based out of Ukraine. The purpose of the project is to implement a market expansion strategy. The poster will provide a brief overview of the teaming process through the X-Culture experience and the company selected, identify disciplinary connections to the School of Business and Leadership curriculum, demonstrate the use of trade and scholarly data in the decision-making and recommendations, and offer a logical argument for the varying recommendations for the company.

Motivation for Participating: Experience with academic research presentations.

Charlotte Paille (#36)

Academic Major: Mathematics and Adolescence Inclusive Education

Title: The Benefits of School Integration

Faculty Sponsor: Professor Yousuf George & Professor Nicole Juersivich, Mathematics

Abstract: Did you know segregation in schools still exists? Often school districts that primarily serve students of color do not get access to the same quality of education as students at predominantly white schools. This leads to an achievement gap: the difference in test scores, dropout rates, and course selection between different student populations which most frequently, but not always, is defined by race. What can we do about it? School integration helps to close the achievement gap. We can start by redrawing school districts to be more representative of a county's racial makeup rather than a specific neighborhood so that districts are not restricted by the historical impacts of redlining and residential segregation.

Motivation for Participating: I hope to gain confidence in speaking up about issues I care about.

Christian H. Winkler (#37G)

Academic Major: Global Business and Leadership

Title: Immersive Language Learning

Faculty Sponsor: Professor Stephen Hill, Business and Leadership

Abstract: Immersive Language Learning Methods, Lesson Plans and Experience.

Motivation for Participating: I hope to spread interest in language learning.

Chynna Sharp (#38)

Academic Major: Physical therapy/ public health

Title: Interning at Gigi's Playhouse

Faculty Sponsor: Professor Kathleen Walker, Nursing

Abstract: I interned at Gigi's playhouse

Motivation for Participating: Published speaking

Experiential Learning Pathway: Internships

De'Yoni Majors (#39)

Academic Major: legal studies, minor in business

Title: Income Injustices

Faculty Sponsor: Professor Yousuf George & Professor Nicole Juersivich, Mathematics

Abstract: Did you know black and hispanics households earn about half as much as the average White household and own only about 15 to 20 percent as much net wealth. Income inequality is a real issue that affects the mass majority of the "Minority". I mean minority as in african americans, hispanics, and immigrants. Depending on the race and gender of the worker can affect the benefits they get. This is a sound argument because it

is not brought into light unless workers start to talk about pay.

Motivation for Participating: I hope to gain more insight on what others think and understand if my project was beneficial.

Danielle Milton (#40)

Academic Major: Nursing and Public Health

Title: Tepeyac Camp and the Genesee and Orleans County Health Departments

Faculty Sponsor: Professor Kathleen Walker & Professor Nick Gerbino, Nursing

Abstract: During the summer of 2022, I had the opportunity to split my time between the Tepeyac Camp, and the Genesee and Orleans County Health Departments. Half of my summer was spent at the Tepeyac Camp, where I worked with a variety of different majors with youth ages six to thirteen on social and emotional development. At the Genesee County Health Department I worked alongside public health nurses at vaccine clinics and home health visits. At Orleans county I was able to join public health nurses on Thursday nights for outreach. We went to migrant camps around the county in order to provide vaccines and testing.

Motivation for Participating: I hope to show people the work I was able to do over the summer because I am proud of it!

Emily Jaworski, Brianna Richardson, Elizabeth Bruno (#41)

Academic Major: Music Education, Psychology, Inclusive Education

Title: How well do household water filters work?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: The purpose of this experiment was to determine the effectiveness of different brands of household water filters to determine if some brands are better than others and if the price of the filter impacts the effectiveness of the filter. We conducted this experiment by collecting water from a local pond and filtering that water through the

multiple different brands of water filters ranging in price from low to high. We then compared the water quality before and after filtering and between each of the different brands to determine the most effective filter.

Motivation for Participating: We are all looking forward to seeing our ideas come to fruition and to practice our public speaking skills.

Dorothy Seaboldt (#42)

Academic Major: Psychology and Social Work

Title: Does a Teacher's Emotional Expression in the Classroom Impact Student Academic Success

Faculty Sponsor: Professor Lindsey LaPlant, Psychology

Abstract: As someone with a long history in the world of education I was interested in testing the modern common knowledge of positivity being the best policy in the classroom. In order to do so I created three mock zoom lecture recordings of the same content being presented in an angry, happy, and neutral tone. Participants watched through this lecture 10 minute lecture once and then completed a 10 question multiple choice quiz on the content from said lecture.

The scores were then placed into a one-way ANOVA and results found a significant relationship between success and the neutral condition.

Motivation for Participating: I hope to gain more experience with presenting research.

Emily Weaver (#43)

Academic Major: Biochemistry

Title: A matrix isolation study of γ -valerolactone and its water complexes

Faculty Sponsor: Professor Josh Newby, Chemistry & Biochemistry

Abstract: The weakly-bound complexes of γ -valerolactone (GVL) with water were analyzed using computational chemistry and spectroscopy. Gaussian16 was used to find stable

complexes with GVL and water. In this study, the minimum energy geometries and vibrational frequencies of the complex were determined. This search was guided by the calculated electron densities of the two monomer units. A total of three, true minima have been found at multiple levels of theory. Two structures are formed via OH...O interaction to the carbonyl group and a third structure was found to interact with the ring oxygen in another type of OH...O. The lowest energy structure was found to be one of the OH...O (carbonyl) structures and was found to be stabilized by a secondary CH...O interaction. Matrix isolation FTIR was used to observe the experimental structure of the GVL : H₂O complex. Our analysis of the computational and spectroscopic work will be presented in this poster.

Motivation for Participating: I hope to gain more experience in presenting my research.

Emily Surprenant, Isabella Altieri, Caroline Keegan, Olivia Mazza (#44G)

Academic Major: Occupational Therapy

Title: Occupational Therapist's Perspectives Regarding Sensory Modulation Intervention in Residential Mental Health Settings

Faculty Sponsor: Professor Elizabeth Hebert, Occupational Therapy

Abstract: The purpose of our qualitative study was to explore occupational therapist's perspective of using sensory modulation intervention in treatment with the following diagnoses: depression/anxiety, bipolar, and schizophrenia. We interviewed four occupational therapists working in mental health settings to gain further understanding of their perception of the effectiveness of sensory strategies.

Motivation for Participating: We hope to showcase the perceived effectiveness of sensory strategies within our local communities' mental health residential settings.

Arianna Klass (#45)

Academic Major: Public Health

Title: Racial discrimination in healthcare

Faculty Sponsor: Professor Yousuf George & Profess Nicole Juersivich, Mathematics

Abstract: Did you know that doctors are being taught to be biased in medical school? Medical school textbooks say that people of color have “thicker skin” than white people? This issue is important because the healthcare system is failing patients of color. People of color have lost their lives pointlessly and it is important that we spread awareness and start moving forward to reform healthcare. First things first is education. We should continue to teach people about what really goes on with healthcare. We also should be spreading more awareness about the treatment of patients of color using real facts, connect with public health officials to request that they work to help people of color have better access to medicaid, medicare, and health insurance, push for the expulsion of medical school textbooks that discriminates against patients of color and last but not least push for reform in healthcare through the continuation of educating others.

Motivation for Participating: I hope to spread awareness about the unfair treatment of people of color when seeking healthcare. My hope is that I can encourage others to continue to spread this knowledge that I will share and actually put themselves out there and fight for medical reform.

Kayla Caramanna, Kiley Sullivan (#46)

Academic Major: Nursing

Title: Sleep Hygiene, An Early Intervention for Children with Attention Deficit Hyperactivity Disorder

Faculty Sponsor: Professor Bonnie Walden, Nursing

Abstract: We conducted a literature review on the sleep hygiene and how it plays a role in ADHD. The assignment was part of our Evidence Based Research Class, and was particularly important to us to understand interventions that would be beneficial to children suffering from ADHD that could be a universal protocol.

Motivation for Participating: To be able to successfully discuss our topic in front of a large audience.

Gabrielle Doland (#47)

Academic Major: Public Health & Nursing

Title: Internship Experience at the Genesee/Orleans County Health Department

Faculty Sponsor: Professor Kathy Walker & Professor Nicholas Gerbino, Nursing

Abstract: 1) I have been working with the public health nurses at the health department. My primary job was to create a bulletin board based on the importance of non mandatory vaccines, but I also had the opportunity to work in the lab. 2) I used Canvas as my inspiration. 3) I did it because I was assigned to.

Motivation for Participating: I hope to gain confidence presenting in general, as well as express my love for public health and our community.

Connor McCauslin, Hannah Shales, Mackenzie Jackson, Brett Machado (#48)

Academic Major: Business Leadership

Title: X-Culture Virtual Team Experience: Eco Blu

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: In this poster the team of Connor, Hannah, Mackenzie, and Brett will discuss their intensive global virtual team project on Eco Blu. Eco Blu is a clothing company stationed in Brazil that tailors men's clothing. The goal for this project is to find a market that would best sell their product, along with what country to sell them in. The poster will provide a brief overview of the teaming process through the X-Culture experience and the company selected, identify disciplinary connections to the School of Business and Leadership curriculum, demonstrate to use of trade and scholarly data in the decision making and recommendations, and offer a logical argument for the varying recommendations for the company.

Motivation for Participating: We hope to gain an increase of confidence in presenting more projects in our future careers.

Gavin Girardin, Zachary Sales, Mathew Kaye (#49)

Academic Major: Business Leadership

Title: X-Culture Global Virtual Team Experience: Bergplaas Nature Reserve for the U.S., and South African Markets

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: Bergplaas Nature Reserve is a 5,500 hectare (13,590 acre) wildlife sanctuary situated in an ancient and majestic area of South Africa's East Cape Province. Bergplaas exists to serve the underprivileged, its immediate community, eco tourists and the many students and business leaders that come to learn about their strengths, reconnecting with themselves and with nature. Bergplaas Nature Reserve is a place where students and professionals alike come together to disconnect with the outside world and enjoy the beauty of nature, taking in the simplicity of the African Ubuntu (togetherness) philosophy and the lessons that reflection and balance can have on the individual. What we did was introduce the product (the nature reserve and their programs) in a new market as to expand the companies influence and profitability. We did this by first analyzing what countries and market entry strategies would be the most helpful in making Berplaas a serious global competitor. All three of us decided partnering with international universities to be the best course of action. It fits their current strategy and the resources they have available while still doing everything they set out to do.

Motivation for Participating: Public speaking experience.

Experiential Learning Pathway: International Experiences, Mentored Research

Hallie Todd, Kara Daskiewich, Lydia Coombs, Harrison Dumas, Alexis Lasher, Patrick Notaro (#50)

Academic Major: Biology

Title: Synthesis of Human Milk Sugar Derivatives Using an Engineered Enzyme

Faculty Sponsor: Professor Jessica Stachowski, Chemistry & Biochemistry

Abstract: Human milk oligosaccharides (HMOs) are naturally occurring sugars found in human breast milk which support digestive health, immune response, and cognitive

development in breast-fed infants. While further studies on the health benefits of HMOs are needed, the limited availability and structural complexity of these sugar molecules makes it difficult to further investigate this important class of molecules. The goal of this project is to use an engineered glycosynthase, Bbhl, to make HMOs and HMO derivatives which are currently inaccessible using reported biosynthetic methods. Our current efforts in the early stages of this project include the cloning and expression of Bbhl and the chemical synthesis of the N-acetyl-D-glucosamine 1,2-oxazoline sugar substrate.

Motivation for Participating: Gaining confidence in presenting scientific research.

Isiah McMurray (#51)

Academic Major: Biochemistry

Title: NMP:Water Weakly Bound Complexes

Faculty Sponsor: Professor Josh Newby, Chemistry & Biochemistry

Abstract: Weakly bound complexes are molecules that are bound to other molecules by only intermolecular forces. Studying these interactions helps the scientific community better understand how larger systems (e.g. proteins and enzymes) are structured and how they function. Previous research in this area focused on homocyclic ring molecules interactions with water. Recently, there has been more research involving heterocyclic molecules. This study looks into the interactions between N-methyl-2-pyrrolidone (NMP) and water. NMP is an interesting structure due to an electronegative ketone, ring nitrogen, and methyl group that can all impact the binding of a water molecule. Previous studies focus on NMP:water in bulk systems. One study did posit a favored orientation, but did not confirm it. Using computational methods, the weakly bound interactions between NMP and water have been analyzed. Our findings suggest that there are three orientations in which the weakly bound NMP:water complex can form. The most energetically favorable structure was observed to form a hydrogen bond from the water molecule to the ketone of NMP. Further analysis of these structures and their properties are being pursued to further substantiate these findings.

Motivation for Participating: Better ability to talk about and explain my research to those not in the chemistry department. And build my own understanding through speaking and answers others questions.

Jeremy Swartz, Rashid Saleh (#52)

Academic Major: Chemistry

Title: Does the Solvent Matter in Hydrogenation?

Faculty Sponsor: Professor Amber Charlebois, Chemistry & Biochemistry

Abstract: We report here the results of an ongoing project investigating the role of the solvent in a typical heterogeneous catalyst hydrogenation. Limonene is used as the starting alkene, with acetic acid and methanol as primary solvents; Pd/C is the heterogeneous catalyst. The four different combinations of hydrogen gas and solvent (H₂H, H₂D, D₂D, D₂H) were tested and the level of deuteration was compared using proton (¹H) NMR, deuterium (²H) NMR and Mass Spectroscopy. It appears that there is some level of interaction between the catalyst and the solvent, and we intend to show whether the solvent can affect the level of deuteration in the product.

Motivation for Participating: Presenting at ACS conference. Was instructed to go through this to get the poster.

Jenna Phillips, Geena Morotti (#53)

Academic Major: Biomedical Science

Title: Spectroscopic study of free and protein-bound porphyrins: Their interactions and their relation to aggregation processes

Faculty Sponsor: Professor Sanela Lampa-Pastirk, Chemistry & Biochemistry

Abstract: Cytochrome c is a widely-studied and well-understood heme protein found in the inner mitochondrial membrane of various organisms, where it facilitates electron transfer in the electron transport chain (ETC). The small size of cytochrome c along with its well-characterized structure and reactivity make it an appealing target molecule for preliminary investigations of the interactions that dominate protein folding and misfolding processes. Of particular interest are interactions related to the conformational changes into highly structured and organized fibrillar aggregates. The recent scientific debates on the disputed role of protein misfolding in neurodegenerative diseases such as Alzheimer's and

Parkinson's have generated considerable interest among undergraduates to better understand the role of intermolecular interactions involved in protein misfolding and aggregation. We utilize UV-Vis and fluorescence spectroscopy to investigate horse heart cytochrome c in the native state, in its free-base state following the removal of iron from heme, and after the insertion of zinc. We investigate and compare spectral responses of heme chromophores in the presence of various solvents and under controlled unfolding and refolding conditions. Our preliminary studies aim to design research models for investigating primary interactions in protein folding and misfolding processes on a level suitable for undergraduate research.

Motivation for Participating: Insight into presenting scientific data.

Jordyn Bagley, Jesse Benner (#54)

Academic Major: History and Museums, Archives, Public History; Legal Studies

Title: Measuring Underwater Acoustics and Wavelengths

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: In this science experiment we measured the different distances between ripples in water with different sound frequencies. By striking different frequencies of tuning forks with a mallet we then measured the distances of the wavelengths in a container of water. We underwent this experiment to find out if there is a correlation between underwater acoustics that cause ripples and the distance of the wavelengths of those ripples.

Motivation for Participating: We hope to better understand frequencies and wavelengths and share our findings with others.

Joseph Brophy (#55)

Academic Major: Public health

Title: Childrens Institute

Faculty Sponsor: Professor Kathleen Walker & Professor Nick Gerbino, Nursing

Abstract: I will do a presentation on about the internship I participated in last summer.

Motivation for Participating: I hope to spread the word of the different programs that do good work in the community.

Joseph Nettles (#56)

Academic Major: Biochemistry

Title: A Computational Study of the Oxazole : Water Complex

Faculty Sponsor: Professor Josh Newby, Chemistry & Biochemistry

Abstract: Oxazole (C₃H₃NO) is a 5-membered heterocyclic ring that is the basis of many drugs and biologically important molecules. Understanding how this molecule interacts with water is critical because these types of interactions are ultimately what allow its myriad of uses. The goal of this study was to calculate the lowest energy complexes of oxazole with water. Gaussian16 was used to calculate the optimized structures and vibrational frequencies at a variety of levels of theory and basis sets. Four structures were found across multiple levels of theory and basis sets. One structure depicts an O-H...N interaction, a second that depicts a C-H...O interaction, and two complexes characterized by double-acceptor, double-donor involving O-H...O and C-H...O interactions. Three additional structures were found in a minority of our calculations and were deemed to be of minimal importance. The structure with the O-H...N interaction was overwhelmingly found to be the lowest energy across all basis sets and levels of theory. Calculations to determine the energetic barriers to isomerization are underway. Our computational results will serve as a foundation for future matrix isolation FTIR studies to demonstrate the experimental structure of the oxazole water complex in a matrix. A discussion of our results and conclusions will be given in this poster.

Motivation for Participating: I want to gain more experience presenting research. I have spent a year running experiments but I have never had to present my research. CARS would help to provide this experience.

Experiential Learning Pathway: Mentored Research

Julia Merzig, Lauren Quatela, Rachel Cook, Quincy Marsell, Kennedy Skuse, Emma Fiske (#57)

Academic Major: Communication Sciences & Disorders

Title: Exploring Autism Up

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: We are all Communication Sciences & Disorders students in our senior Community Engaged Learning (CEL) capstone course. One of the community partners that our class works with is Autism Up located at the Golisano Autism Center. Autism Up is a community organization that supports individuals with autism spectrum disorder by offering a wide variety of classes working on life skills to recreational skills. We have each volunteered weekly in multiple child and adult classes at Autism Up. Our poster will present reflections of what we have learned and experienced during our CEL. We hope to promote awareness about the organization and encourage people in the community to get involved.

Motivating for Participating: We hope promote awareness about Autism Up and share our reflections about the community engaged learning we've done.

Experiential Learning Pathway: Service Learning

Justice Tallman (#58)

Academic Major: Clinical Lab Science

Title: A Rare Case of Hemolytic Disease of the Fetus and Newborn

Faculty Sponsor: Professor Matthew Schoell, Clinical Lab Science

Abstract: Hemolytic disease of the fetus and newborn (HDFN) most commonly occurs due to a mismatch of RhD phenotype between mother and fetus. This presentation will explore and discuss a case study about a rare cause of HDFN due to maternal autoantibodies.

Motivation for Participating: I hope to gain experience presenting on researched topics in a professional setting.

Katie Hibbard, Sarah Nu (#59)

Academic Major: Social Work

Title: Analysis and comparison of parental leave in the United States and Finland

Faculty Sponsor: Professor Cory Cummings, Social Work

Abstract: The Family Medical Leave Act (FMLA) is the current United States policy that relates most closely to parental leave. This act ensures that employees of companies with more than 50 employees receive an unpaid leave of up to 12 weeks annually to be used to care for themselves or dependent individuals, such as a child, in the event of illness, or a significant event such as the birth or adoption of a child. Through a poster presentation, we would like to compare and contrast this policy with parallel policies existing in Finland. Throughout this exploration of policy, we will also delve into the cultural context within which these policies have come to and continue to exist. Finally, we would also like to examine the impact of the UN Global Sustainability goal of “Decent Work & Economic Growth” on the issue of parental leave internationally.

Motivation for Participating: Through our research and subsequent CARS presentation, our group seeks to gain an understanding of current policies in order to work toward a macro level solution to current issues in parent/child relationships in the United States. Additionally, we would like to develop our understanding of the steps being taken by both the United States and Finland to work towards the UN Global Sustainability goal of “Decent Work & Economic Growth” in the context of parental/family leave.

Experiential Learning Pathway: International Experiences

Kelsey Zybczynski (#60)

Academic Major: Biomedical sciences

Title: Environmental Sustainability of Clinical Glassware

Faculty Sponsor: Professor Matthew Schoell, Clinical Lab Science

Abstract: In this research, we took glass test tubes and performed ABO blood typing tests. Then we tested different cleaning methods such as nothing, rinse and air dry, soap and water, and a dishwasher. After these cleaning methods were performed, we added the blood type or antiserum that would cause agglutination to observe residue left in the

glassware, if any, and graded each reaction.

Motivation for Participating: I hope to gain experience presenting and answering questions about research I have performed.

Experiential Learning Pathway: Field & Clinical Experience

Khalil Lynch (#61)

Academic Major: Business management

Title: EAFIT

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: EAFIT is an international University in Colombia and is struggling to get more international students so we helped create systems and marketed the university in a different way.

Motivation for Participating: Better presentation skills.

Experiential Learning Pathway: Mentored Research

Kiara Anglin (#62)

Academic Major: Nursing

Title: The Effects of Health Inequities on BIPOC communities

Faculty Sponsor: Professor Yousuf George & Professor Nicole Juersivich, Nursing

Abstract: Did you know that over the past 20 years, about 51% of Black people have said that their health outcomes have stayed the same or gotten worse. This issue is important because it is essential that everyone have access to the same health resources and not be disadvantaged because of any factors influenced by racism. My call to action for people would be to come up with solutions to this issue and to actually put them in action. For example, a solution like mobile clinics could solve the issue for people who can't find transportation or who are unable to get there due to disabilities. Overall my call to action

is for people to help break down these barriers that exist because no one deserves to not be treated the right way regardless of any factors that may be out there.

Motivation for Participating: I hope to educate others about the inequities in the healthcare system and find others who want to make a change.

Kiley Cook, Kate Metzler, Rose Evans (#63)

Academic Major: Communication science and disorders

Title: Communication Without Tunnel Vision

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: We are Communication Sciences and Disorders students in a senior capstone course that focuses on community engaged learning. We volunteered in classes for various ages at the Golisano Autism Center (Autism Up). Autism Up focuses on creating opportunities to improve and support quality of life by utilizing skill-centered classes. We chose to volunteer at Autism Up to explore working with different populations, grow our clinical experience, and discover our areas of interest. We wanted to engage with the community and involve ourselves in opportunities available for individuals we may be working with in the future. While there, we learned how to engage with participants in casual conversation without pressure of clinical performance. We learned to use various methods of communication which helped us create connections with the participants at AU and understand that communication comes in different forms.

Motivation for Participating: We would like to bring attention to the importance of building connections with others by becoming involved in the community. Further, we want to spread awareness about the strengths of individuals with autism and break stigmas that surround this population. Presenting at CARS is an opportunity for us to practice and expand our advocacy skills.

Experiential Learning Pathway: Service Learning

Mackenzie Sweet (#64)

Academic Major: Social Work

Title: Bridging The Gap

Faculty Sponsor: Professor Yousuf George and Professor Nicole Juersivich, Mathematics

Abstract: Did you know, “March 15 marks Equal Pay Day, a date that symbolizes how far into the new year women have to work in order to earn as much as men did in the previous year”. <https://www.cnn.com/interactive/2022/03/business/perspectives/closing-the-gender-pay-gap/> That being said, women have to work 15 months in order to match a male’s 12-month salary. This is an additional three months of labor, three months of providing for themselves, their families, paying rent, etc. What makes a year’s worth of labor for a male, more valuable than a year’s worth of labor for a female? This topic matters because women should be equally as valued in the workplace as men. There is no reason why women should earn 82 cents to every dollar than a man earns for the same position. Women still have to eat, have transportation, provide for their families, pay rent, just as much as men do. Women have to work harder in order to live a comfortable life just because of their gender. According to the United Nations Website, it will take 257 years to close the global gender pay gap. <https://news.un.org/en/story/2022/09/1126901> My call to action is to encourage more men to advocate for closing the wage gap. Women are very much aware that they are paid less than men. Men are aware of this too. However, it doesn’t really impact the men. That being said, women are the ones who tend to protest and advocate on behalf of themselves. If we start to see more men standing up for this issue, I think we will see more change. Feminists do not only have to be female. In fact, “being a feminist means believing that women and men are equal and deserve equal rights...feminism spans across any and all genders, and yes, men can be feminist allies too!” <https://info.umkc.edu/womenc/2022/09/12/back-to-basics-6-can-men-be-feminists/>

Motivation for Participating: I hope to learn more about how to present at a symposium style event.

Madeline Messitt, Jordan Haggard, Max Popolizio (#65)

Academic Major: Business leadership and Psychology

Title: X-Culture Global Virtual Team Experience: Garne

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: In this poster the team of Madeline Messitt, Jordan Haggard, and Max Popolizio

will discuss their intensive global virtual team project on Garne. Garne is a Ukrainian clothing company. They are looking to expand their brand internationally. The poster will provide a brief overview of the teaming process through the X-Culture experience and the company selected, identify disciplinary connections to the School of Business and Leadership curriculum, demonstrate the use of trade and scholarly data in the decision making and recommendations, and offer a logical argument for the varying recommendations for the company.

Motivation for Participating: To present research information to a large group of people with different backgrounds.

Madison Dobbertin (#66)

Academic Major: Public Health

Title: Social Determinants of Health Leading to an Unsafe City

Faculty Sponsor: Professor Shirley Sommers, Education

Abstract: I researched crimes that took place in the City of Rochester through open data portals and compared to social determinants of health. Looking at how lack of access to health care, food security and other factors related to crimes committed. I decided on this research because I grew up around Rochester and my parents work within the community. The rate of crime is rising in Rochester and if we can understand the reasons people are committing crime, we can help prevent and provide resource. My dad is with the City of Rochester Fire Department and is first hand seeing the rise in crime due to the lack of structure for the younger population. Both my mom and I work in the medical field and we are also both seeing a rise of violent injuries due to crime.

Motivation for Participating: I hope to gain experience talking to members of the community about something I am passionate about. I hope this also gives others a chance to see the statistics on the area that is so close to our campus. I hope I can raise awareness and be able to provide resources as well.

Madison Robbins (#67G)

Academic Major: HESAA

Title: Increasing Diversity, Equity, and Inclusion(DEI) practices within your institutional or departmental strategic plan, creates an increased sense of community and belonging.

Faculty Sponsor: Professor Becky Fahy, Psychology

Abstract: For my capstone, I took an in depth look at how implementing DEI practices and programs into your strategic planning at not only an institutional level, but at a divisional and departmental level can help change a campus culture and experience to one with greater community and belonging. I did this by implementing mainly qualitative but also quantitative studies within my position at St. John Fisher University. I did this project because as the Assistant Director of Student Engagement and Leadership, it is my job to make sure anyone and everyone feels welcomed on campus and that they find their place; and the first step to creating that type of environment is implementing DEI in your everyday work, practice, and programming.

Motivation for Participating: What I hope to gain from presenting from CARS is experience in presenting my thesis so when I move towards a doctoral or EDD program, or submit conference proposals to national conference institutions, I can have experience already doing so on a smaller but transferrable scale.

Experiential Learning Pathway: Mentored Research

Magdalene Jacobs (#68)

Academic Major: Public Health

Title: Cameron Community Ministries Internship

Faculty Sponsor: Professor Kathleen Walker & Professor Nicholas Gerbino, Nursing

Abstract: I will be creating a poster that outlines my internship experience at Cameron Community Ministries. I participated in this internship not only to fulfill my learning pathway experience, but also because I hope to work with youth in my future career. My internship responsibilities included facilitating and participating in after school programs, as well as assisted in any of the needs at the teen center.

Motivation for Participating: To gain experience presenting information to the public as

well as fellow colleagues.

Experiential Learning Pathway: Internships

Mealea VanDenburg (#69)

Academic Major: Public Health

Title: Project PROMISE Internship

Faculty Sponsor: Professor Kathleen Walker & Professor Nicholas Gerbino, Nursing

Abstract: Starting in the Summer of 2022, I have been involved in a research project called Project PROMISE, held at Mt. Hope Family Center in Rochester NY. As an intern, I am involved in data management, child care, filming in-person visits, and other office duties. This internship fulfilled my Experiential Learning Pathway, but also aligned with my interests in maternal and child health.

Motivation for Participating: I hope to gain experience in presenting research and experience to colleagues, and also advocate for child abuse and neglect prevention.

Experiential Learning Pathway: Internships

Megan McCraith (#70)

Academic Major: Nursing

Title: Maternal Mortality in the United States

Faculty Sponsor: Professor Yousuf George and Professor Nicole Juersivich, Mathematics

Abstract: I will make a poster that shows the discrepancies in maternal mortality within the United States and between the United States and other countries. I did research to show these discrepancies and I did this because there are thousands of women dying in the United States every year due to maternal mortality. I want to bring awareness to this so hopefully something can be done to lower the maternal mortality rate in the United States.

Motivation for Participating: I hope to bring awareness to maternal mortality in the United States.

Michael Countryman (#71)

Academic Major: Clinical laboratory science

Title: Abnormal Clinical Findings in COVID-19

Faculty Sponsor: Professor Matt Schoell, Clinical Laboratory Science

Abstract: There are unique clinical findings associated with COVID-19. Some of these findings are associated with adverse outcomes to the extent that it is possible to develop a diagnostic algorithm to determine disease severity. I have compiled case studies and meta-analysis outlining these criteria in an attempt to outline what this diagnostic algorithm would look like.

Motivation for Participating: I hope to educate and learn from others.

Miranda Hughes, Madison Eberhard, Michael O'Hare (#72G)

Academic Major: Occupational Therapy

Title: The Effectiveness of Metronome Therapy on Upper Extremity Function Post-Stroke

Faculty Sponsor: Professor Kathy Stoklosa, Occupational Therapy

Abstract: Want to learn how the use of a beat can improve movement in a person after having a stroke? We conducted a single subject design study to investigate the effectiveness of metronome therapy on upper extremity movement following a stroke. We provided a few sessions of occupational therapy interventions utilizing a metronome phone app. The session included participants completing various everyday activities with and without a metronome beat. We completed this research to contribute to the existing evidence surrounding use of metronome therapy as a rehabilitation treatment. This poster will provide themes that emerged throughout the course of the study and implications for future studies using this novel approach.

Motivation for Participating: Professional presentation of research, class requirement for OTR 514.

Mustafa Alhabib (#73G)

Academic Major: Public Health

Title: Obesity in New York City factors, causes, and effects

Faculty Sponsor: Professor Kathleen Walker, Nursing

Abstract: My creative activity is Obesity in New York City factors, causes, and effects via using ArcGIS StoryMaps. ArcGIS StoryMaps is a story-authoring web-based application that allows you to share your maps in the context of narrative text and other multimedia content and add visual appeal and credibility to the ideas. A story can effect change, influence opinion, and create awareness and maps are an integral part of storytelling. This project aims at two points. First, Sharing ArcGIS StoryMaps is to allow students to create and explore inspiring, immersive stories by combining text, interactive maps, and other multimedia content. Second, It is to inform and educate people and explore the main factors and causes of obesity through the story map to influence their attitudes, behaviors, and beliefs.

Motivation for Participating: By doing presentations, I hope to be able to inform, educate, motivate, persuade internal and external audiences, and improve how to speak in front many groups.

Natalia Villanueva Ugolini (#74)

Academic Major: Biotechnology

Title: Levels of dissolved iron in campus drinking water

Faculty Sponsor: Professor Josh Newby, Chemistry & Biochemistry

Abstract: The quality of our drinking water is of significant importance and interest to our campus community. This project focuses on a quantification of the amount of dissolved iron in our water. Iron is a common dissolved metal found in water supplies and can be

noticed by its taste and tendency to leave rust-colored deposits. Drinking water samples were collected from different drinking sources around campus to form a representative set. These samples were then analyzed using atomic absorption spectroscopy (AAS) to quantify the levels of dissolved iron. This analysis required the generation of calibration standards that were made by dissolving pure iron in an acidic solution. The AAS quantifications were also compared to the levels found using a portable X-ray fluorescence scanner. The results of our elemental analysis and a comparison of the two techniques will be presented in this poster.

Motivation for Participating: Mostly to gain experience for my future, and also to learn science and meet other projects.

Experiential Learning Pathway: Mentored Research

Nora Conlen, Kiara Roman (#75)

Academic Major: Biomedical sciences

Title: Titration of Cresyl Violet

Faculty Sponsor: Professor Amber Charlebois, Chemistry & Biochemistry

Abstract: This research project involves the study of the interaction of nucleic acids with cresyl violet, (CV) a small, planar, and aromatic dye molecule that exhibits a different color when interacting with DNA versus RNA. Nucleic acid oligos that were analyzed were homopolymers and were 15 bases in length. UV-Vis Spectrophotometry was used to provide a quantitative description of the color differences, to compare and contrast CV's interaction with DNA and RNA. The wavelength scans of the different oligos are unique and therefore indicate the DNA//RNA-CV interactions could be, at least in part, base-dependent. In effort to explore the pH effect on CV, titrations were performed to determine the pKa values. Our results suggest that the observations when CV is bound to nucleic acids may be the result of the local pH environment created by the DNA and RNA oligos.

Motivation for Participating: I hope to gain enough information or feedback to give to my professor in order to either publish or continue the project.

Nikolle Van Stralen, Tori Simpson, Liliana Zucaro, Leanne Russo (#77)

Academic Major: Occupational Therapy

Title: Maternal Role Development and Occupational Therapy

Faculty Sponsor: Professor Lisa Sykes, Occupational Therapy

Abstract: Motherhood is the dynamic interplay between the mother, her new role, and the environment. The transformative developmental process of motherhood is known as matrescence. We conducted a mixed method study exploring the role of occupational therapy in supporting mothers with young children. Our research included a survey that was completed by over 300 mothers and investigated time use and satisfaction with occupations. Two focus groups further explored themes that arose during our survey. The themes found in the research included occupational identity, performance patterns, co-occupations, support, and occupational balance.

Motivation for Participating: We are excited about sharing an emerging area within our profession and the research we have been working on for the past year. We also would like to disseminate information on motherhood and the role of occupational therapy.

Olivia Griffin, Caroline Winiecki, Caroline Muller (#78G)

Academic Major: Occupational Therapy

Title: Student Perceptions of Campus-Integrated Therapy Dogs: Best Practices and Impact on Well-Being and Campus Belonging

Faculty Sponsor: Professor Laura Poleshuck, Occupational Therapy

Abstract: For this study, we surveyed all full-time undergraduate and graduate students at Nazareth College to better understand student perceptions of campus-integrated therapy dogs, as well as best practices and the impact on well-being and campus belonging. Students were invited to complete the survey via email invitation. The survey itself was completed anonymously on Qualtrics. The survey consisted of 26 closed-ended and six open-ended questions in four different categories including the following: demographics and campus experience; habits around campus-integrated dog interactions; affinity/emotion, including connectedness to campus and level of stress; and opinions

about the campus integrated therapy dog program. In total, we received 278 responses. Sixty additional students who began the survey did not finish. Survey results show positive support for the current practices of the campus-integrated therapy dogs and The InterProfessional Animal-assisted Wellness (IPAW) Collaborative. Future research is warranted to ensure best practices are continued.

Motivation for Participating: We hope to gain experience in presenting formal research, as it is something we will have to do throughout our careers.

Olivia Hollenbeck, Abi Santos, Owen Laffey (#79G)

Academic Major: Business Leadership

Title: X-Culture Global Virtual Team Experience: Eco Blu Confecções

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: In this poster the team of 3, will discuss their intensive global virtual team project on Eco Blu Confecções. Eco Blu Confecções is an environmentally conscious textile manufacturing company located in Brazil. Eco Blu has requested international teams work to propose a new market for expansion. The poster will provide a brief overview of the teaming process through the X-Culture experience and the company selected, identify disciplinary connections to the School of Business and Leadership curriculum, demonstrate to use of trade and scholarly data in the decision making and recommendations, and offer a logical argument for the varying recommendations for the company.

Motivation for Participating: We hope to gain more insight from our fellow students and peers of different majors and cultures.

Experiential Learning Pathway: International Experiences, Mentored Research

Olivia Iannone, Emma Sutton, Brianna Tisa (#80)

Academic Major: Occupational Therapy

Title: Exploring the Relationship of Time in Positional Devices to Infant Movement and Posture

Faculty Sponsor: Professor Julie Kunisch, Occupational Therapy

Abstract: The purpose of this study was to determine if there is a relationship of time spent in positional devices with the movement and posture of infants ages 3-4 months old, as measured by the Test of Infant Motor Performance (TIMP). Healthy infants (n=10, 3-4 months) participated in this study along with their caregivers. Time spent in positional devices was reported by caregivers over 3 consecutive days, from morning wake to evening bedtime via electronic survey. Following survey collection, an assessment of the infant's movement and posture, as measured by the TIMP, was conducted by a licensed occupational therapist. The relationship between time in positional devices and infant movement and posture was expressed as Pearson correlation coefficient. Results were analyzed and conclusions and implications are discussed.

Motivation for Participating: Experience disseminating scholarly work to the Nazareth community.

Olivia Quattrociocchi, Tessa Kuebel, Andrea Gutierrez, Mya Mahon, Jenna Welch, Sarah Norman (#81)

Academic Major: Communication Sciences and Disorders

Title: What's Up with Autism Up?

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: We are students who completed our Community Engaged Learning (CEL) capstone course in Communication Sciences and Disorders. As a part of this course, our CEL involved partnering with Autism Up, which is located at the Golisano Autism Center in Rochester. Autism Up is an organization that strives to support individuals with autism spectrum disorder by providing them with opportunities to improve and enhance their quality of life. Our CEL consisted of volunteering weekly in a variety of the classes offered, such as Art, Music, Baking, Dance, Fitness, & Social Skills. By participating in this program, we gained relevant real world experience working with diverse populations, and built meaningful relationships within the community. Our poster highlights the mutually beneficial experiences that we gained while volunteering at Autism Up.

Motivation for Participating: We hope to share our experience with others and help them

to get involved with their community as well.

Experiential Learning Pathway: Service Learning

Peyton Sgroi (#82)

Academic Major: Psychology

Title: Influence of Athletic Status and Gender of a Perpetrator on Rape Myth Acceptance

Faculty Sponsor: Professor Lindsey LaPlant, Psychology

Abstract: I conducted research about how athletic status and gender of a perpetrator influence rape myth acceptance. I am conducting research through a Qualtrics where participants were randomly assigned to one of four conditions. The purpose of this study is to investigate how athletic status as well as gender of the perpetrator affect rape myth acceptance on college campuses.

Motivation for Participating: I hope to gain more knowledge about actually presenting research at an event. I also hope to learn more about the different types of research that students conduct at Nazareth!

Experiential Learning Pathway: Mentored Research

Regan Henrici (#83)

Academic Major: Clinical Laboratory Science

Title: Clinical Manifestations of Silent Hypoxia in SARS-CoV-2 Infections

Faculty Sponsor: Professor Matthew Schoell, Clinical Laboratory Science

Abstract: This is a research project based on recent literature about severe COVID-19 infections. There have been several clinical manifestations that could suggest reasons for severe infections of SARS-CoV-2 that may prove fatal. COVID-19 is still not fully understood, and this research could support the severe pathogenesis that was seen with so many patients during the course of the pandemic.

Motivation for Participating: A deeper understanding of severe SARS-CoV-2 infections.

Renee Haley, Hannah Olmo (#84)

Academic Major: Musical Theatre, Dance, Social Work

Title: Sunscreen Strength: What Sunscreen Is The Most Effective?

Faculty Sponsor: Professor Kelly Hutchinson-Anderson, Chemistry & Biochemistry

Abstract: The purpose of our project was to investigate which sunscreen type/ spf/ form is the most effective. To conduct this experiment, we tested multiple sunscreens, brand name vs generic as well as lotion vs spray to determine which formula worked the best to block UV rays. UV dots/ beads were used to determine the effectiveness of each sunscreen. The UV dots/ beads were equally covered in each type of sunscreen. The dots/ beads were then all exposed equally to the same UV light source for 1, 5, and 15 minute increments to determine changes in UV absorption based upon each sunscreen. Our objective was to find enough strong evidence in favor of a certain sunscreen and share our findings to protect more people from UV rays.

Motivation for Participating: We hope to gain experience presenting research and spread awareness about UV protection.

Reva Mussi, Carleigh Gerace, Thelma Burgos, Jaden Conkling (#85)

Academic Major: Nursing

Title: A Look Into Perinatal Care and Outcomes in the USA and Finland

Faculty Sponsor: Professor Mary Dahl Maher, Public Health

Abstract: We conducted a review of selected literature and pertinent websites to gather data about maternity care and maternal/infant outcomes in the United States and in Finland. The purpose of this examination was to prepare for a student led presentation at Laurea University in Vantaa, Finland as part of an exchange course in a sustainable global future.

Motivation for Participating: Learning to work in a team, increased knowledge about the content area, to gain confidence in professional presentation.

Robin Shultz, Adam Delgrand, Aziza Simpkins, Jaylynn Hollenbeck, Sophia Caruana (#86)

Academic Major: Political Science

Title: Waves, Swarms, and Wildfires: A computational analysis of dehumanizing metaphors about refugees

Faculty Sponsor: Professor Wendy Norris, Mathematics

Abstract: The purpose of this research is to understand how refugees were depicted in English language newspapers and social media during 2 specific events: 1) the 2015 humanitarian crisis affecting people in Syria, Iraq, Afghanistan, and central Africa and 2) the 2022 humanitarian crisis affecting people in Ukraine.

Motivation for Participating: We hope to gain a sense of closure to our work regarding refugees. Presenting our findings allows us to deeply think about the project and provides insight into why we even began the project in the first place.

Sarah Sandoval (#87)

Academic Major: Political Science, Legal Studies

Title: A Close-Knit Community: The Cultural and Political Importance of Fiber Arts to Ukraine

Faculty Sponsor: Professor Olena Prokopovych; History, Politics, and Law

Abstract: This project analyzes the cultural and political significance of traditional Ukrainian fiber arts and the support from the global fiber arts community to Ukraine. The sources for this research include scholarly articles on traditional Ukrainian fiber arts as well as online fiber arts community projects in support of Ukraine. The conflict in Ukraine has lasted a long time, and in the wake of the latest Russian invasion of Ukraine, the support from the fiber arts community was interesting because of the importance of fiber arts in

Ukraine.

Motivation for Participating: I hope to learn how to discuss research that I have conducted and feel passionately about, as well as how to properly portray my work in a poster format.

Shayne Black (#89G)

Academic Major: Public Health

Title: STI Spread in NYC 2021 with ArcGIS Technology

Faculty Sponsor: Professor Kathleen Walker, Nursing

Abstract: The increasing spread of sexual transmitted infections since the COVID-19 is a growing public health issue. Story mapping technology, (ArcGIS) was used to demonstrate digital display of data with the added nature of sequential story making.

Motivation for Participating: I hope to gain research presentation experience as well as the fulfillment of being able to share the benefits of digital story telling with real data.

Sophia DiCarlo (#90)

Academic Major: Clinical Laboratory Science

Title: Plasma, Electrolyte and Hematological Changes on Marathon Runners

Faculty Sponsor: Professor Matt Schoell, Clinical Laboratory Science

Abstract: I researched case studies that found that marathon runners went through physical examinations such as blood work and ECGs to figure out their changes from before and after a race because I wanted to figure out if marathon running was unsafe for adolescents and if they affect adolescents differently than they affect adults.

Motivation for Participating: I would like to learn what research is like and other research that is done through cars.

Steven Beck, Kyle Decker (#91)

Academic Major: Business Management

Title: Bergplaas Nature Reserve

Faculty Sponsor: Professor Jennifer Leigh, Business and Leadership

Abstract: My X Culture team and I will be showcasing Bergplaas Nature Reserve for our project. We broke up all the information into 3 sections and are combining it into one final which my partner and I will be breaking down during our showcase. We did this assignment as a requirement for our Senior Seminar on Leadership class.

Motivation for Participating: A new life experience.

Experiential Learning Pathway: Mentored Research

Tara Kirwan, Ashlyn Slate (#92)

Academic Major: Communication Sciences and Disorders

Title: Barking About Parking

Faculty Sponsor: Professor Susan Mack, Communication Sciences & Disorders

Abstract: We are Communication, Sciences, and Disorders students enrolled in our senior capstone course in Community Engaged Learning (CEL). While discussing advocacy, parking at Nazareth College arose as a hot topic and apparently a source of frustration and challenge for students, faculty, and staff. In this poster, we are excited to share information about parking at Naz and gather information and thoughts from students, faculty, and staff about their experience with this. By visiting our poster, you will have the opportunity to share your concerns and experiences and brainstorm solutions regarding parking. All the information we gather will be shared with administrators who have the power to make this happen. Come see us advocate for the change we hope to get!

Motivation for Participating: We hope to provide insight to others in advocacy and bring the Nazareth College community into being a changemaker to enhance the happiness and well-being of the campus and reduce the frustration of the lack of parking provided for

students, faculty, staff, and visitors within the Nazareth College Community.

Tori Wilcox (#93)

Academic Major: Psychology

Title: Optimizing Well-Being of College Students: How Practicing Gratitude Impacts State Hedonic Well-Being

Faculty Sponsor: Professor Lindsey LaPlant, Psychology

Abstract: Well-rounded well-being contributes positively to the lives of college students (Salami, 2010), and the impact of gratitude on well-being has been explored in research and discussed in popular media (Emmons & McCullough, 2003). The present study examined the effects of gratitude on the well-being of college students through a brief gratitude journaling exercise. It was found that those in a gratitude condition experienced decreased negative affect compared to a neutral journaling condition.

Motivation for Participating: I hope to gain more experience in presenting my work and talking with individuals about research.

Evening Graduate Poster Presentations

Alyssa Waters (#501)

Academic Major: Literacy Specialist

Title: The Impact of Multisensory Interventions on Reading Comprehension

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As a Clinical Assistant at a suburban school, I am conducting an ongoing research project with seventeen eighth grade students receiving Tier II Literacy Intervention Services. I have been studying the impact of multisensory interventions and the impact they have on students' reading comprehension. Student progress related to reading comprehension is measured each session and will be measured more comprehensively at

the completion of this project. I am implementing interventions in a small group setting work with students twice a week. The analysis of collected data informs instructional methods for the following sessions. Data collection and analysis continues to be ongoing. Preliminary data analysis indicates that a majority of students' comprehension levels have increased throughout the use of multisensory interventions; more comprehensive data analysis will happen at the conclusion of this project. This research will guide me to have a better understanding of how to increase student comprehension in my future classroom, and will help me create engaging content for my students.

Motivation for Participating: By participating in CARS, I hope to gain experience in speaking professional about my field and gain insight on my fellow peers' research.

Ashley Osterman (#502)

Academic Major: Graduate Inclusive Childhood Education, Additional (SPED) Certification at the Same Developmental Level

Title: Explicit Teaching of Self Regulation to Improve Attention

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: While working as a clinical assistant, I have participated in a teacher research project on self regulation and its effects on attention within the classroom. I have explicitly taught small groups of 5th grade students over the school year on self regulation in order for students to have a greater ability to maintain focus and control in the classroom. Using self check-ins and google forms, I have coded key words and phrases to quantify and assess each student's progression throughout the year. I found that students felt the self regulation skills integrated helped them with regaining attention and focus in the classroom. As I work with students twice a week, my developing data suggests that students feel positive feelings towards practicing self regulation skills using mindfulness, meditation, and brain games that I've incorporated into their teaching. Using what I've learned from my research, I will apply the strategies of enhancing mindfulness and meditation and add engaging brain games in order to help students in my future classrooms. The positive feedback I've received from the students indicates that they've enjoyed and stayed engaged in skill development. I feel that daily integration of social emotional learning within the classroom will benefit my teaching practice as well as my students' growth.

Motivation for Participating: I hope to gain more insight on the benefits of self regulation in the classroom in order to apply it to my future classroom. I would also like to see the research that my peers acquired and learn from them on what I can integrate into my future classroom.

Braelyn Saunders (#503)

Academic Major: Professional Inclusive Childhood Education

Title: Culturally Responsive Practices in SEL

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As a clinical assistant in a suburban school district, I am implementing action research in social emotional learning across three kindergarten classrooms. I have been researching the effectiveness of a Little Spot of Emotions curriculum by Diane Alber (2021) while implementing culturally responsive practices. I work with students twice a week, implementing interventions in small group settings. I am developing data systems in order to track and analyze my data, which will inform instructional decisions and practice. Preliminary data analysis indicates increases in competencies of self awareness and self management. Yet, a more comprehensive data analysis will occur at the end of the project. In my future teaching experiences, I believe this research will help me better understand how to address the diverse social emotional needs of my students, as well as ways to track and analyze these outcomes in order to inform my classroom decisions.

Motivation for Participating: Speaking more professionally in my field.

McKenzie Hart (#504)

Academic Major: Literacy Education

Title: The Impact of Multimodal Literacy Interventions at a Tier II Level

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As a Clinical Assistant in a suburban school district I have been implementing action research with 4th and 5th grade students at an RTI Tier II level. I have been

researching the impact of multimodal interventions on students literacy learning, specifically in phonics and comprehension skills. Quantitative data of students growth in phonic skills was collected daily, along with weekly qualitative data of students growth in specific comprehension skills. I work with students twice a week in small group settings. Collection of data along with analysis is ongoing as this research is in progress. The preliminary data indicates growth in both phonic and comprehension skills. As I embark upon my teaching career, I believe this research will inform my instruction of literacy skills through making meaningful opportunities to incorporate multimodal activities.

Motivation for Participating: I hope to be able to demonstrate my learning of how impactful literacy learning can be when multimodal opportunities are embedded within the students' learning.

Eric Almquist (#505)

Academic Major: Public Health

Title: Gun Violence in Rochester- A story map Presentation

Faculty Sponsor: Professor Kathleen Walker, Nursing

Abstract: I have created a story map detailing the rise in gun violence in the city since COVID-19, I used ARCGIS to create a story that outlined the trends in a timeline. I created this to inform the public of the troubles we struggle with everyday in the city and to start conversations on why we need to make a change.

Motivation for Participating: Create dialog about a public issue and show people the technology I used to make my project.

Gianna Arcuri (#506)

Academic Major: Literacy

Title: Using a Multisensory Approach to Teach and Apply Heart Words to Writing

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As a clinical assistant in a suburban school district I have been conducting a research project with fourth, fifth, and sixth grade students at an RTI Tier III level. Throughout this project, I have been implementing a multisensory approach for instruction with heart words. Heart words are high frequency words that have an irregular spelling pattern. I used different strategies to teach students how to orthographically map these words. Throughout my research I have been using the Wilson Reading program to support instruction. I have been working with students two days a week in a small group setting. This project was individualized to meet each student's needs. Data was collected each week to see the growth of students' heart word knowledge. After three months of explicit instruction on heart words, students were asked to apply their gained vocabulary to their writing. The collection and analysis of this data is ongoing due to this research project still being in progress until the end of the semester. Preliminary data analysis indicates growth in their expanding knowledge of heart words. Through this project I have gained an understanding of the importance of high frequency words in literacy development.

Motivation for Participating: I am excited to view peers' projects and learn their takeaways from their own projects. My project is something that I feel very proud of and I am looking forward to sharing my experience of teaching heart words with others.

Hayley Cronin (#507)

Academic Major: Literacy Education

Title: Multi Sensory Methods and Their Impact On Sight Word Proficiency

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As a Clinical Assistant in a suburban school district, I have been conducting an ongoing study working with first and second graders receiving literacy support and instruction. My research has focused on using multisensory methods and monitoring the effect that they hold on the reading and writing of sight words. Students use the multisensory approach to gain a better understanding of the recognition and application of sight words. I work in small group settings, twice a week to instruct and collect my data. As this methodology is implemented I track the progression of students' understanding by monitoring their growth using formal and informal assessments, such as sight word lists and ORFs, Oral Reading Fluency assessments. The data that is being presented is currently ongoing. Preliminary, the data is presenting an increase of awareness and application with the use of sight words. Comprehensive data analysis will occur following the end of the

project. In my future practice, I believe that this will be beneficial to include, because I want to incorporate a multisensory approach to learning new words, especially in terms of literacy support in the classroom.

Motivation for Participating: I hope to showcase something that I feel passionate about and share my ideas with others in my field. I also want to hear what other people have to say about the work that I have been doing and hopefully inspire them to incorporate some ideas in their own practices.

Jessica Klem (#508)

Academic Major: Literacy Specialist

Title: The Power of Six Minutes: The Impact of Fluency and Comprehension Skills

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As a Clinical Assistant in a suburban school district, I have had the opportunity to conduct action research working with fourth grade students. This research has been a continuous implementation process focused on fluency skills. Through this intervention process I worked with twelve, fourth grade students. I am providing push-in support in three different fourth grade classrooms. These students are considered to be at grade level, however, my work with them was to prevent them from receiving pull-out AIS services. For this intervention I used Six-Minute Solution Fluency, where students read passages related to science and social studies topics they are learning in those content areas. Multiple data points were collected to analyze student growth in fluency. The overall goal of this intervention was to help students improve fluency skills to prevent them from needing further support and to push them to be at grade level or higher in their fluency and comprehension skills. From this intervention, I have learned the impact that fluency skills have on student success. Fluency skills are essential for student learning in the classroom.

Motivation for Participating: By participating in CARS I hope to gain the experience of speaking professionally on topics in my field.

Madelyn Jenkins, Julia Secor (#509)

Academic Major: MSED Literacy Education (Birth-Gr. 6)

Title: Literacy Instruction in a Kindergarten Classroom: Consecutive Versus Concurrent Phonological Awareness Frameworks

Faculty Sponsor: Professor Kerry Dunn, Education

Abstract: As partnering Literacy Clinical Assistants in a rural school district, we are implementing a year-long research project with a class of thirteen general education, kindergarten students. Through the means of our research, we are exploring the impact of consecutive versus concurrent phonological and phonemic awareness interventions on early literacy development. Our consecutive instructional methodologies align with a Structured literacy approach, while our concurrent instructional methodologies align with a Balanced literacy approach. We conduct small-group, ten-minute instructional sessions four days per week. Quantitative data related to the phonological and phonemic awareness skills targeted during each session are collected on an ongoing basis and analyzed regularly to differentiate the pace and modality of instruction. Comprehensively, the data will be continually evaluated until the project has reached completion to unearth trends and overall results. Preliminary data analysis indicates that a consecutive framework of phonological and phonemic awareness instruction yields higher levels of literacy achievement. In applying our inquiry research to our future professional trajectories, we have acquired increased confidence in navigating the current conversation of best practice in the field of early childhood literacy instruction.

Motivation for Participating: We believe that this presentation will be a valuable collaborative experience as we present our inquiry research alongside collegiate peers.

