

NAZARETH COLLEGE



# CARS 2021

Creative Activity and  
Research Showcase



SPRING 2021

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# ***Introduction***

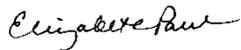
Welcome to our community-wide celebration of our students!

It is a joy to come together as an extended college community for the Creative Activity and Research Showcase (CARS) to celebrate the powerful learning that has long been at the heart of a Naz education. Today we showcase active, engaged, immersive learning experiences in many forms – from scholarship to community-engaged learning, capstone to career exploration, artistic expression to professional practice, local to global inquiry – learning that knows no limits in form or impact!

The student work showcased at CARS clearly demonstrates the high and diverse impact of experiential challenges, cope with imperfection, and look through new perspectives. They learn professional ethics, challenge stereotypes and biases, and advance interpersonal and communication skills. Our students make a difference through their work.

I am so proud of the many students and faculty mentors whose collaborative work is featured in CARS. Thank you for joining in celebration of the learning and discovery that is at the heart of the Nazareth education.

Enjoy!



Beth Paul, Ph.D.  
President

## ***Share Your Experience - #NAZCARS2021***

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, #NAZCARS2021. We can't wait to see all your favorite moments of CARS 2021.

## ***Thank you!***

As hosts of the annual Creative Activity and Research Showcase, the Office of Research, Scholarship, and Innovation 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. 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 2021 Committee**

Michelle Donahue - Physical Therapy

Catherine Doyle - Library

Diane Enerson - Psychology

Francesca Gentile - English and Communication

Grant Gutheil - Psychology

Kelly Hutchinson - Chemistry and Biochemistry

Timothy Kneeland - Research, Scholarship, and Innovation

Lindsey LaPlant - Psychology

Mary Maher - Nursing

Debra Mathewson - Research, Scholarship, and Innovation

Kimberly McGann - Sociology and Anthropology

Octavio Vazquez - Music

Edward Wiltse - English and Communication

Keirah Comstock - Research, Scholarship, and Innovation/CARS Graduate Assistant

## ***Program at Glance***

<b><i>Activity</i></b>	<b><i>Time</i></b>
Welcome/Opening with President Beth Paul	9:00 – 9:10 a.m.
Poster Presentations Session #1 (Odd numbers 1 – 49)	9:20 – 10:20 a.m.
Honors Capstones	10:00 a.m. – 3:00 p.m.
Paper Presentations Session #1 (Panels 1 and 2)	10:30 – 11:30 a.m.
Presentations by 2020 SOARS Grant Recipients	11:15 a.m. – 12:15 p.m.
CME Presentations	11:45 a.m. – 12:45 p.m.
Performances	1:00 – 2:45 p.m.
Paper Presentations Session #2 (Panels 3 and 4)	1:30 – 2:30 p.m.
Poster Presentations Session #2 (Even numbers 2 – 50)	2:45 – 3:45 p.m.
Service Learning & Study Abroad	4:00 – 5:15 p.m.
Evening Graduate Poster Presentations (Numbers 501 – 514)	6:00 – 7:00 p.m.

# ***Paper Presentation Schedule***

## **Paper Session #1: 10:30 a.m. – 11:30 a.m.**

### **Panel 1: Irish Literature and Postcolonialism**

Emma Baldwin: 'Weren't We All Chums?': A Struggle of Postcolonial Ideals and Human Nature in "Guests of the Nation"

Madeline Dovi: "Grace to Gore: The Juxtaposition of Bog Symbolism in Irish Literature"

Rayna Mandara: "The Effects of Colonialism in Ireland: Destabilization of Community"

### **Panel 2: The American Presidency**

Simone Gorgievski: "Evolution of the JFK Records Collection Act: A Government's Attempt to End Secrecy"

Jessica Michels: "Rancho del Cielo: President Reagan's Heaven on Earth"

## **Paper Session #2: 1:30 p.m. – 2:30 p.m.**

### **Panel 3: Native American Studies**

Madison Darrell: "The Iroquois League and Founding the United States"

Kayleigh Hegerle: "The War on Assimilation: The Acts of Native American Resistance towards Indian Boarding Schools"

### **Panel 4: New Directions**

Meghan Brooks: "Immigrant Detention Centers in the U.S.: A Health Crisis at the Border"

Rayna Mandara: "Senior Comprehensive- The Necessity of Sacrifice: How Tropes Appear in Art and the Purpose They Serve"

Christian Winkler: "Stem Cells; What are they? How do they work? What are the costs and benefits of research?"

# ***Honors Capstone Schedule***

## **Session 1:**

10:00 a.m. – Taylor Robey: “Music in Athletics: Using Music to Improve Performance and Output”

11:00 a.m. – Amanda Sanok: “Music and Healing: From Sympathetic Magic to Clinical Music Therapy”

1:00 p.m. – Natalie L’Hommedieu: “How Far We’ve Come and How Far We Have to Go: The Social, Cultural, and Legal Evolution of Equal Pay in America through the Eyes of Activists”

2:00 p.m. – Ben Butler: “Dark Realities: The Politics Surrounding the American “Drug War” and the Resulting Nationwide Epidemic”

## **Session 2:**

10:00 a.m. – Annie Skinner: “Representation of Queer Womxn in Television”

11:00 a.m. – Emilie Hughes: “Social Applications of the Sapir-Whorf Hypothesis in French Grammatical Gender”

1:00 p.m. – Kierstyn Christensen: “Schizophrenia in the Media”

## **Session 3:**

10:00 a.m. – Donja Griffin: “Bridging the Gap: Content Analysis of Mothers’ Usage of Social Media versus Professionals When Seeking Medical Advice”

11:00 a.m. – Molly Lacourse: “The Indus Water Treaty in Modern Times; The Ability to Govern Through Upcoming Challenges”

## ***Core Milestone Experience***

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 has invited students whose completed projects were of exceptional distinction to share their work here at CARS. Please visit to see the wide variety of exciting and insightful projects.

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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.***

# ***Core Milestone Experience (CME)***

## **Khadyn Blake (CME01)**

**Title:** How Does Sports Contribute to the Resiliency of Student-Athletes of Color Attending A PWI?

**Faculty Sponsor:** Professor Shawgi Tell, Higher Education Student Affairs

**Abstract:** After presenting at CARS I hope to share and remind everyone that the experience of one person of color does not account for the experience of every person of color, nor the entirety of a whole race. Prior to the interviews, I made the assumption that the experiences of the student athletes of color I interviewed might share or relate to some of the experiences I had as a student athlete myself. However, each response was completely different from not only my own but from one another due to the different experiences of each individual, including myself. I hope this video serves as a sample to showcase the difference in the realities of student athletes of color, the difference in realities for people of color, and the difference in realities for people as a whole.

**Motivation for Participating:** In the future, I look forward to pursuing a career in sports social work, where I will be able to engage with student athletes to address the unique challenges they face compared to their peers not involved in sports. Therefore for my CME project, I thought it would be interesting to interview student athletes of color on Campus and obtain an insight to how their participation in sports contributes to their resiliency at a PWI (Predominately White Institution). From these interviews I comprised a video displaying each student athlete's experiences and responses.

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## **Rachel Brooks (CME02)**

**Title:** Different Perspectives on Life

**Faculty Sponsor:** Professor Kelly Hutchinson, Chemistry

**Abstract:** For my CME project, I wrote a short story addressing the meaning of life from different perspectives. These perspectives were inspired by the PEQ classes I took. I accomplished this by creating a narrative that included the perspectives from an English, biology, religion and history standpoint.

**Motivation for Participating:** I would like to gain more confidence in my presenting skills and I would love to share my project in hopes that it will help someone else.

## Core Milestone Experience (CME)

### Megan Hurley (CME03)

**Title:** Why do we Move?

**Faculty Sponsor:** Professor Otieno Kisiara, Sociology and anthropology

**Abstract:** 1) I analyzed why we move in three different ways. First, I looked at personal motivation for exercising or moving. Then, I looked at the biomechanics of movement. Finally, I did some calculations using physics to explain why we move in the world. 2) I made this project on a website called Notion. 3) This was a class requirement for CME, but I enjoyed the process and I found it really interesting.

**Motivation for Participating:** Course requirement, CME 05071 Core Milestone Experience

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### Mary Rose Utter (CME04)

**Title:** Perspectives on Music and Perception

**Faculty Sponsor:** Professor Kelly Hutchinson-Anderson, Chemistry, Biochemistry and Education

**Abstract:** I wrote a poem describing the different ways music can impact people. I combined the perspectives of my Social Problems, Abnormal Psychology and Psycholinguistics classes to explore the impact and perception of music. I recorded myself reading this poem using a software on my iPad with the help and musical abilities of my friends. After I everything was recorded, I added a couple of effects built into the software to add impact to my poem. In addition to this being part of my CME requirement, I've always been passionate about music and plan to explore the connections between this beautiful art form and the field of Speech Pathology.

**Motivation for Participating:** I hope to gain confidence in presenting my own work because I know this is a skill I will need to have when I enter my career. I hope to gather other people's opinions about my work in order to improve my skills. I also want to see different student's perspectives on the topic that I chose for my project.

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## **Core Milestone Experience (CME)**

### **Alexandra Valicenti (CME05)**

**Title:** Through the Eyes of a Child

**Faculty Sponsor:** Professor Kelly Hutchinson-Anderson, Director of Core Curriculum

**Abstract:** I wrote a short story for my CME project based on my question, how can we understand and or accept each other despite having different religious, political, and social beliefs? I chose to focus the story based on the difference of religion and how it effects our culture's youth. I did this because I have grown up in a world where terrorism and violence is constantly talked about, and yet we never seem to get to the base of the problem to why we cannot, at least, accept that someone else has different beliefs other than our own. My short story expresses how we are taught to not accept others because of difference and how we need to decide for ourselves whether that judgement should continue to effect us.

**Motivation for Participating:** I would like to experience an event like CARS and be able to say that I have participated in it.

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# ***Honors Capstones***

## **Benjamin Butler (Session 1)**

**Title:** Dark Realities: The Politics Surrounding the American "Drug War" and the Resulting Nationwide Epidemic

**Faculty Sponsor:** Professor Lauren Brooks, Chemistry and Biochemistry

**Abstract:** Across American history, controlled substance legislation has played a large role in the lives of millions of Americans. The study conducted within takes a detailed analysis at this legislation, and how different groups of American citizens have been treated with regards to the enforcement of Controlled Substance legislation. This was done through the analysis of criminal statistics since the beginning of the war on drugs, as well as through an interview with a former drug counselor within the New York State Department of Corrections.

**Motivation for Participating:** Course requirement, HON 485

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## **Raabia Cheema (Session 2)**

**Title:** Postcolonial Politics: The Study of Afghan Refugees in the MENA Region and Western Europe

**Faculty Sponsor:** Professor Rachel Jones, Education

**Abstract:** As a part of an HONORS Thesis Defense, I explored and compared the experiences of Afghan refugees across countries in the MENA Region and in Western Europe, whilst also analyzing the effects of postcolonialism on the politics that define such refugee experiences.

**Motivation for Participating:** Course requirement, HON499: Honors Thesis Defense

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## **Kierstyn Christensen (Session 2)**

**Title:** Schizophrenia in the Media

**Faculty Sponsor:** Professor Rachel Jones, Education/Honors

**Abstract:** I studied the process of internalized stigma of schizophrenia through media portrayals. I completed a literature review that encompassed different forms of stigma, examples of internalized stigma, and common stigmas of schizophrenia. I conducted

## Honors Capstones

interviews with 4 clinical psychologists to discuss their experience working with clients with schizophrenia. I learned about common stigmas that their clients had been aware of, and why they felt media portrayals of schizophrenia were inaccurate. I hope this research will change how people view schizophrenia.

**Motivation for Participating:** Course requirement, HON499

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### Donja Griffin (Session 3)

**Title:** Bridging the Gap: Content Analysis of Mothers' Usage of Social Media versus Professionals When Seeking Medical Advice

**Faculty Sponsor:** Professor Rachel Bailey Jones, English

**Abstract:** Using a literature review and content analysis, I investigated the usage of social media by mothers seeking medical advice in relation to pregnancy or their children. I used literature to get background information on why social media is being used over medical professionals and then I evaluated Instagram and Youtube comments to determine what topics mothers want information about. I then proposed a way in which medical professionals can use social media to interaction with their patients and bridge the gap.

**Motivation for Participating:** Course requirement, HON 499

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### Emilie Hughes (Session 2)

**Title:** Social Applications of the Sapir-Whorf Hypothesis in French Grammatical Gender

**Faculty Sponsor:** Professor Rachel Bailey Jones, School of Education

**Abstract:** I am interested in demonstrating how language can be influential in activism. Using literature review as my methodology, I collected research on the role that language plays in human cognition as well as examining potential compounding variables not addressed by much of the current literature. The research typically addresses the Sapir-Whorf Hypothesis, but does not address other well established psychological concepts that can act as compounding variables and contribute to our understanding of the relationship between cognition and language. I focused particularly on grammatical limitations in the French language that are a hindrance to practical applications of gender-neutral language, why these hinderances exist, and how we can break them down to have the French language become more inclusive.

**Motivation for Participating:** Course requirement, HON499: Honors Defense

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**Molly Lacourse (Session 3)**

**Title:** The Indus Water Treaty in Modern Times; The Ability to Govern Through Upcoming Challenges

**Faculty Sponsor:** Professor Rachel Bailey Jones, Honors and School of Education

**Abstract:** The Indus Water Treaty has maintained its integrity for over six decades, but its writers could not have anticipated dramatic global changes and challenges such as climate change or continued exponential population growth. In these troubling and modern times, it is more clear than ever, that both states must diversify and climate-proof their water resources in order to maintain the treaty and provide clean water and sanitation to all citizens. South Asia is one of the fastest growing, and most densely populated regions of the world. Unfortunately, it is also the most water stressed region. This, combined with historical territorial disputes and charged international relations is a cause for concern. Climate change is likely to dramatically alter rain patterns and water supply to the region, further stressing already tense relations. The Indus Water Basin is split between four nations, with the bulk of resources and conflict occurring between India and Pakistan, this creates a very tricky need for governance, which is exacerbated by relations between the two states. The states of India and Pakistan must introduce climate stable water resource management programs in order to maintain the terms of the Indus Water Treaty and must plan ahead for uncertain and ever-changing times.

**Motivation for Participating:** Course requirement, HON499 Honors Defense

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**Natalie L'Hommedieu (Session 1)**

**Title:** How Far We've Come and How Far We Have to Go: The Social, Cultural, and Legal Evolution of Equal Pay in America through the Eyes of Activists

**Faculty Sponsor:** Professor Rachel Bailey Jones, Honors Program

**Abstract:** Starting at World War I, this thesis looks back on the history of the fight for equal pay through the lens of activism. Looking at the societal and legislative actions activists fought for, as well as the ways in which legislative efforts falls short in achieving equitable pay, activists have continuously adapted their techniques as they pushed for more legislation to be passed, demanded for updates to current legislative works, and targeted deep societal issues on multiple levels that need to be addressed before true equity can be achieved. When governmental action failed to meaningfully change the pay disparity, activism evolved in order to continue pushing for equality. The fight for equal gender pay is not a binary one, rather a complex web of structural, societal, and individual sexism and racisms woven together that has kept men, particularly white men, raised above the rest of American society. In order to combat this and truly gain equitable pay for everyone, there needs to be a revolution of sorts, brought upon by

## Honors Capstones

work from activists and governmental action, to target the deep societal issues standing in the way of equality.

**Motivation for Participating:** Course requirement, HON499

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### Taylor Robey (Session 1)

**Title:** Music in Athletics: Using Music to Improve Performance and Output

**Faculty Sponsor:** Professor Dale Lonis, Education

**Abstract:** By curating one's music in such terms as tempo, style, and personal connection, athletic performance and strength output can be increased. Using music that fits specific criteria during a workout can not only improve performance, but also result in a better mental state prior to, during, and after the workout. Through survey data and reflections on my own personal training as a member of Nazareth's swim team I want to help others find the music that brings out their best, whether it be in athletic competition/training or just normal exercise.

**Motivation for Participating:** Course requirement, HON499

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### Amanda Sanok (Session 1)

**Title:** Music and Healing: From Sympathetic Magic to Clinical Music Therapy

**Faculty Sponsor:** Professor Rachel Bailey Jones, Honors Program, School of Education

**Abstract:** Music has been acknowledged as a powerful and impactful healing art for centuries. It has and continues to exist in the daily lives of people around the world in various contexts and settings. But how exactly does music heal? This honors thesis examines how music has functioned as a healing force at various points in Western cultural history and reflects upon this history from the perspective of a future music therapist in the 21st century. This thesis examines how music functioned as a healer throughout history from Ancient Greece and Rome, through The Renaissance, to The Enlightenment, all the way to what became the professional practice of clinical music therapy. The purpose of this research was to gain an understanding of the historical and cultural contexts surrounding music and healing.

**Motivation for Participating:** Course requirement, HON499

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**Ann Skinner (Session 2)**

**Title:** Representation of Queer Womxn in Television

**Faculty Sponsor:** Professor Rachel Bailey Jones, Honors Program, School of Education

**Abstract:** For my thesis, I reviewed television programs that contained noteworthy representation of queer womxn in order to examine how these representations have framed the queer community and how to create positive representations of queer womxn in the future.

**Motivation for Participating:** Course requirement, HON499

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# ***Paper Presentations***

## **Emma Baldwin (Panel 1)**

**Title:** ‘Weren’t We All Chums?’: A Struggle of Postcolonial Ideals and Human Nature in “Guests of the Nation”

**Faculty Sponsor:** Professor Ed Wiltse, English and Communication

**Abstract:** In the form of a literary analysis, I took major aspects of "Guests of the Nation," a short story written by Irish novelist, Frank O'Connor, and expounded on such aspects; these consisted of the unlikely friendship formed between the narrator, an IRA soldier, his military partner, and their two British soldier captives. Although it may seem odd for these enemies to be rather 'chummy' with each other, the inevitabilities surrounding the human condition and the internal conflicts that come with it. Additionally, this paper also explores a side of this through the critical eye of postcolonial theory, given that the milieu of the story is set during the Anglo-Irish War/Irish War of Independence, certain concepts of war and duty alongside the soldiers' moral dilemma are also surveyed. While this piece was a mandatory assignment, I too, wrote and would like to present it for the cultural, scholarly, and personal appreciation that came with it — for Ireland, its literature, and events like these are notable and worth projecting into the world!

**Motivation for Participating:** CARS is entirely new to me. Although I have never attended or presented at it, I am very curious, nervous, and excited to be a participant. I want to showcase work not only for myself and the good graces of my professor, but to have our audience/community be even more aware, educated, interested, and engaged in these phenomenal topics!

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## **Meghan Brooks (Panel 4)**

**Title:** Immigrant Detention Centers in the U.S.: A Health Crisis at the Border

**Faculty Sponsor:** Professor Hilda Chacón, Foreign Languages and Literature

**Abstract:** During the fall, I did a bibliographic research project regarding the situation of health and wellness within the immigrant detention centers in the United States. Compiling data from various sources, my paper demonstrates the ways in which maltreatment and neglect have led to sickness and even death for those being detained within our borders. I chose this topic because I have worked with refugees and asylum seekers in the past, and I wanted to better understand how our current national policies

regarding immigration have affected those being held against their will. I do believe it is important that this information is shared because the stigmatization of undocumented immigrants still perpetrates the intolerable violation of human rights, both globally and nationally, and the first step to changing the problem is understanding it.

**Motivation for Participating:** I hope to gain more experience speaking in front of a crowd with whom I am not familiar, and to improve my public speaking skills.

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### **Madison Darrell (Panel 3)**

**Title:** The Iroquois League and Founding the United States

**Faculty Sponsor:** Professor Thomas Lappas, History

**Abstract:** This paper focuses on the highly debated Iroquois Influence Thesis which is the theory that the founding fathers drew influence from the League of the Haudenosaunee—otherwise known as the Iroquois Confederacy—to form the basic principles of the United States’ government. It analyzes whether the country’s origins are tied more closely to the nation’s tribal neighbors or the European influences that are accepted by most scholars today. My main sources include the work of contemporary historians, the United States’ founding documents, and sources relating to Iroquoian society and government. My conclusions are that despite some similarities between the American and Iroquoian forms of government, those similarities are only at a surface-level, thus the Iroquois Influence Thesis cannot be supported. The differences between the nations’ cultures are too numerous, a lack or misrepresentation of documented evidence from the founding fathers exists, and many of the United States’ governing principles can be traced to other sources, such as the Enlightenment and existing European governments. From my research, I also concluded that the adoption of this thesis has the potential to detract from the legacy of the League and its identity as a powerful and distinct political entity in our history.

**Motivation for Participating:** Course requirement, HIS381 Historical Methodology

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### **Madeline Dovi (Panel 1)**

**Title:** Grace to Gore: The Juxtaposition of Bog Symbolism in Irish Literature

**Faculty Sponsor:** Professor Edward Wiltse, English

**Abstract:** I would like to showcase the importance and contrast of bogs and their meanings in Irish literature from the poetry of W. B. Yeats to Frank O'Connor's *Guests of the Nation*.

## Paper Presentations

**Motivation for Participating:** Course requirement, ENGW330: Irish Literature and Culture

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### Simone Gorgievski (Panel 2)

**Title:** Evolution of the JFK Records Collection Act: A Government's Attempt to End Secrecy

**Faculty Sponsor:** Professor Timothy Kneeland, History

**Abstract:** For the "American Presidency" class I took with Dr. Kneeland we were required to write a research paper on a president of our choice. I decided to do mine on the JFK assassination. I conducted this research paper by looking at reliable sources to write my paper.

**Motivation for Participating:** I hope to learn more about the event and different topics others have conducted at CARS.

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### Kayleigh Hegerle (Panel 3)

**Title:** The War on Assimilation: The Acts of Native American Resistance towards Indian Boarding Schools

**Faculty Sponsor:** Professor Lappas, History

**Abstract:** I have researched and explored the effects on the expression of Native American culture with the establishment of Native American assimilation schools during the late 19th century and early 20th century. Furthermore, I have explored the question of whether or not the enforcement of these schools served the purpose they were intended for (the suppression of Native American culture and tradition by "Americanization" by taking away elements of their heritage such as language and religion) or if they actually inspired more resistance and movement for Native American cultural expression. Based on my research I argue that upon examining the function of Native American boarding schools as a tool for forced assimilation into western culture with a heavy emphasis on religion and patriotism, these schools actually had the opposite effect by inspiring further methods of resistance by Native American parents and children in different locations, organically in response to the oppressive conditions and actually strengthen their desire to maintain a connection to their homes and traditions. I have reached this conclusion through the use of the first-hand account of students, photographs, and records taken at the schools such as Carlisle and Mount Pleasant Boarding Schools among others, newspaper articles of the times, as well as the works of historians including David Wallace Adams, Francis Paul Prucha, and Sarah L. Surface-Evans.

**Motivation for Participating:** Course requirement, History 381-01: Historical Methodology

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**Rayna Mandara (Panel 4)**

**Title:** Senior Comprehensive- The Necessity of Sacrifice: How Tropes Appear in Art and the Purpose They Serve

**Faculty Sponsor:** Professor Lindsay Reading Korth, Theatre and Dance

**Abstract:** I developed a Senior Comprehensive Research Paper that required me to create a thesis related to a topic that would encapsulate my time at Nazareth as a Theatre Arts major. I used my involvement with the Nazareth Music Department's production of Dido and Aeneas as a jumping off point to develop my thesis surrounding tropes in the performing arts and how, in Dido and Aeneas specifically, these tropes are used to pit the female characters against each other. I explored the historical context behind these tropes and analyzed why the women of the opera are reduced to these roles.

**Motivation for Participating:** I hope to gain the ability to transform a full fledged paper into a concise, spoken presentation that is coherent and compelling to listen to.

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**Rayna Mandara (Panel 1)**

**Title:** The Effects of Colonialism in Ireland: Destabilization of Community

**Faculty Sponsor:** Professor Edward Wiltse, English and Communication

**Abstract:** In Irish Literature and Culture with Dr. Edward Wiltse, we developed a paper where we analyzed at least one or more of the texts/films we had read/watched in class so far, applying a postcolonial or feminist critique to unpack our thesis. I decided to apply postcolonial criticism to my analysis of the 2006 film, "The Wind That Shakes the Barley" by Ken Loach. This film examines the British occupation of Ireland and, specifically, the events of the Irish Civil War (1922-1923). Within the paper, I used postcolonial criticism to explain how the film displays the destabilization of community and interpersonal relationships brought on by the presence of British colonialism.

**Motivation for Participating:** I hope to gain the ability to properly articulate how I applied a specific critical lens to my personal thesis.

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## Paper Presentations

### Jessica Michels (Panel 2)

**Title:** Rancho del Cielo: President Reagan's Heaven on Earth

**Faculty Sponsor:** Professor Timothy Kneeland, History

**Abstract:** I did original research on Ronald Reagan's ranch home in Santa Barbara, California. I compiled my findings into a research paper. I highlighted the historical figures who visited the ranch, the Young America's Foundation's purchase of the home and the symbolism of the property. I used research from databases provided by the school as well as books from my personal library. Since I was younger I have always looked at Ronald Reagan's life with fascination. I wanted to capitalize on Rancho del Cielo's presence in Reagan's life and how it spoke volumes about the content of his character.

**Motivation for Participating:** I hope that my first presentation at CARS will pave the way for my future endeavors in presenting research and sharing my love of history with others.

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### Christian Winkler (Panel 4)

**Title:** Stem Cells; What are they? How do they work? What are the costs and benefits of research?

**Faculty Sponsor:** Professor Hilda Chacón, Foreign Languages & Literature

**Abstract:** I wrote a research paper on Stem Cells (originally in Spanish). I used several web based articles (some in English and some in Spanish) to compile research and investigate a cutting edge medical topic. I did it because the technology is very interesting, and could potentially change life as we know it.

**Motivation for Participating:** Experience explaining new technologies, medical topics and incorporating foreign language into that framework.

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# *Performances*

**Liam Frager**

**Title:** Dance of the Familiar

**Faculty Sponsor:** Professors Nancy Strelau and Octavio Vazquez, School of Music

**Abstract:** In the fall of 2020, I submitted a piece to the VII Annual Nazareth College Composition Competition. The guidelines for the competition were to write a piece for either string ensemble or full orchestra, so at the beginning of the semester, I began to outline a piece for strings. I decided to write the piece in sonata form to provide myself some structure during the composition process. Over the course of the semester, I wrote and refined, re-wrote and re-refined, until I had a piece I was happy with. All that was left to do was give it a title. The night before the deadline for submissions, I was wracking my mind (and the minds of friends and family) for a title that fit the piece. It sounded rather spooky to me, so in the end I settled on the title "The Dance of the Familiar" (referring to a witch's animal companion). A few weeks after the deadline, I heard back that I and another classmate had co-won the competition, which was very exciting. The Nazareth College string ensemble is currently learning the piece and will be premiering it at the beginning of May. I cannot wait!

**Motivation for Participating:** Course requirement, MUP1Q

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**Tazdyn Francisco, Caroline Sherwood, Vivian Lucas, Rachel Daly, Megan Ruffalo**

**Title:** Medullas Jane

**Faculty Sponsor:** Professor Heather Roffe, Theatre and Dance Department

**Abstract:** This is a choreographic work made in collaboration with the dancer where we examined our thoughts, biases, and general understanding of gender. We began with journaling and discussion and then started developing movement from the written source material. I wanted to make this piece to explore the idea that gender is a performance in a literal performance.

**Motivation for Participating:** I want to open up a discussion about gender and the per formativeness of our lives by inviting other people to view and examine my choreographic work and the sound score I have made to go with it.

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## Performances

### Larissa Hankey

**Title:** Choreography by Larissa Hankey (in two parts)

**Faculty Sponsor:** Professor Heather Roffe, Theatre and Dance Department

*Part I.*

**Larissa Hankey, Sabrina Bui**

**Title:** Overshadowed

**Abstract:** For my Choreography 1 class, I was given the assignment to create a dance duet. Due to COVID 19 regulations, two dancers could not physically connect on stage. I decided to take advantage of the situation, and create a duet between a dancer and their shadow. I choreographed, directed, and filmed a powerful modern dance piece. My dancer first learned the shadows part, and I filmed it with her dancing in a dark room behind a white curtain, with a spotlight that showed her shadow. For the onstage performance, the dancer moved with and against the shadow, which was projected behind her.. There is a sense of conflict throughout the piece, as a girl and her shadow fight for the stronger hand.

**Motivation for Participating:** Course Requirement, DAN-322-01 Choreography I.

*Part II.*

**Larissa Hankey, Alexandra Horgan, Katherine Markello, Katie Marcoccia, Madison Darrell**

**Title:** EXIT

**Abstract:** EXIT is a dance film that I choreographed, directed, and filmed in the tunnels at Nazareth College. I took advantage of the tunnels that were empty due to COVID 19, and created a dance that incorporated the twists and turns of the tight tunnels, and the art painted on the walls. The movements and visual effects create a sense of urgency, as four dancers struggle to find an exit to a never ending maze.

**Motivation for Participating:** I hope to gain experience in presenting my work to a larger audience, since I am an artist and dancer, this skill would be useful. Answering the viewers questions and hearing their comments about my work, will help me to speak about my projects with more fluidity. Viewing others projects will also add to the experience.

**Ryan McNally**

**Title:** Into the Contemporary: Reworking Christmas Classics

**Faculty Sponsor:** Professor Octavio Vazquez, School of Music

**Abstract:** Last year I recorded and produced my seventh Christmas album, "A Very McNally Christmas VII." I did so using both real and digital instruments, and in collaboration with several musicians. Reworking Christmas music has become a tradition of mine as a way of expressing my passion for music.

**Motivation for Participating:** I hope to share my creative process for reworking music, Christmas or otherwise.

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**Molly Stout, Ainsley Bertone, Maggie Dzina, Becca Faulk, Victoria Miller, Olivia Moffa, Madalyn Montgomery, Reese Stojanovski, Renee Haley & potentially Cameron Waggoner**

**Title:** "Cell Block Tango" from the musical "Chicago"

**Faculty Sponsor:** Professors Yuanting Zhao & Brett Smock, Theatre and Dance

**Abstract:** This number is part of the Workshop 360 in Theatre and Dance department this spring. Chicago is one of the five shows in the workshop series. Under the direction and choreography of Brett Smock who is the producing artistic director of the REV Theatre Company and our adjunct faculty/guest artist, students went through 16 days of intensive rehearsal period. Cell Block Tango is one of the most well known numbers of Chicago with 9 female performers. This number will showcase students ability in acting, singing, and dancing.

**Motivation for Participating:** To showcase our students' talents and exceptional work produced in a short period of time.

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**Ally Yanoff, Caroline Sherwood**

**Title:** Thereafter (Piece for Orchestra with Choreography)

**Faculty Sponsor:** Professor Octavio Vazquez, School of Music

**Abstract:** Ally composed an orchestral piece that was inspired by a personal experience with loss and grief. She came up with the main musical idea with her voice and piano and then elaborated on the idea to develop the musical content for a full

## Performances

orchestra in MuseScore. She composed this piece to help her get through and process her grief and emotions and to have a meaningful piece of music dedicated to her friend Katherine who passed away in order to help commemorate Katherine's significance on Ally's identity. She chose to compose this piece for an orchestral setting to represent the large impact of the loss. For the CARS event, Ally will make a high-quality midi recording of the piece in the film scoring studio. The visual aspect of this project will be a dance performance choreographed by Caroline who was also a close friend of Katherine. Her choreography will be reflective of her grieving experience as well. We are combining the art mediums of music and dance to create a collaborative and meaningful expression of our loss.

**Motivation for Participating:** We hope to gain more experience sharing our music and dance in an impactful way and more practice discussing our art with audiences in a relevant manner that will cause them to feel a significant emotion and contemplate important concepts.

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# ***Poster Presentations***

**Kaitlin Ange, Mackenzie Wescott, Miriam Cisse, Nadine Brewster (#1)**

**Title:** Prevention of Sunlight Exposure of Migrant Farm Workers

**Faculty Sponsor:** Professor Michael Y. Chen, Public Health

**Abstract:** CARS 21' We are targeting the MFW population and their risk of contracting skin cancer. It is stated that “the incidence of melanoma, the deadliest form of skin cancer, is rising faster than that of any other type of cancer. In America in 1935, only 1 in 1500 was struck by the disease, today it currently affects 1 in 75, and by 2010, it is projected to rise to 1 in 50” (URSMD,2005) and with MFW often having a significant degree of intense UV light exposure this increases their risk of nearly all types of skin cancer including melanoma. Determining the prevalence of skin cancer, its impact, and access to adequate care is incredibly relevant to the migrant farm worker’s health needs and potential problems. Previous research indicates that MFWs face multiple health-related barriers including the lack of access to services, language barriers, lower educational attainment, and many more. All adding to the negative impacts and social determinants of health relating to skin cancer. Although they may not be aware of the dangers of working in the sun for hours and the importance of UV protection; it is important to understand that skin cancer can be fatal if not properly diagnosed and treated. Our proposal is a community based health education intervention. This would include a donation setup for the retrieval of hats and sunscreen (UV protective items) as well as educational materials that could help them to better understand the importance of these items and the damaging effects of long-term sun exposure. On top of these things there will also be free skin cancer screening “pop up clinics” available for this population in order to ensure access to medical care. References: URSMD. 2005. Skin Cancer Awareness in the Migrant Population. Retrieved from <http://lib.ncfh.org/pdfs/2k9/8696.pdf>

**Motivation for Participating:** Course requirement, PBH 480 Senior Capstone

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**Julie Arnold (#2G)**

**Title:** The Human Side of Data: A Qualitative Analysis of Nazareth’s Health & Counseling Survey

**Faculty Sponsor:** Professor Diane Enerson, Psychology

**Abstract:** This project involves doing a qualitative analysis of student feedback from the 2018 and 2019 Nazareth Health & Counseling surveys. The surveys included a section at the end for students to give feedback in their own words, and the goal here is

## Poster Presentations

to understand what information might emerge from those open-ended responses (all responses were de-identified and completely anonymous). As part of the analysis, responses were read several times and coded for themes, resulting in a set of data. While data can often seem like just numbers, one of the benefits of using qualitative analysis is that it reveals a more human side of data. With that in mind, the information gained through this project provides an additional way to support student feedback and understand student needs.

**Motivation for Participating:** Course requirement, HESAA 590

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**Meghan Bargabos, Emma Currie, Sam Reisinger, Jessica Granchelli, Katie Loewenguth, Annika McPhail (#3)**

**Title:** Plant The Moon Challenge

**Faculty Sponsor:** Professor Jonathan B. González, Biology

**Abstract:** One of humankind's enduring passions has been the quest to understand the cosmos from whence we came. The next phase of our journey undoubtedly will be to send humans on long-term missions to our planetary neighbors, including the moon and Mars. One of the greatest challenges in these missions lies in providing sustenance to astronauts, by growing edible plants in otherworldly terrestrial substrates. Our team is participating in a study sponsored by NASA and coordinated by the Institute of Competition Sciences, in collaboration with the University of Central Florida, in which we are attempting to grow edible plants in a lunar substrate simulant. Our group aims to uncover a way to grow purslane, an edible species of weed. In contrast to domesticated plants which have undergone milenia of artificial selection in ideal conditions, weedy plants are adapted to thriving in adverse conditions. While we are currently in the process of setting up a final substrate design, we have already crossed multiple challenges that could lead us in the direction of being able to grow purslane in a lunar substrate simulant and are excited to share our progress with the campus community.

**Motivation for Participating:** Gain feedback from the community and experience presenting scientific work to the public

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**Kayla Barron, Adrian Padilla, Owen Gonzalez, Jeremy Jacob (#4)**

**Title:** Troisky Most Restaurant

**Faculty Sponsor:** Professor Jennifer Leigh, Management

**Abstract:** Our Project is based on the Troitsky Restaurant in Russia which is a restaurant that sells vegan food. We want to focus on how the restaurant could make

another business strategy since Covid had brought down marginal profits. We used social media as our prime example of how the company could take advantage of this platform to promote their business. We also discussed that creating bundle deals for food packages would be a good idea and then sell them at a reasonable price would bring up profits. We decided to go this route with our idea because this business strategy would be a great way that the restaurant will be able to maintain their business through the pandemic and since a lot of restaurants are taking advantage of food delivery, also that being an idea the business can consider will bring in more income.

**Motivation for Participating:** Course requirement, Senior Seminar on Leadership (BLDR 430-81)

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### **Elena Baugh (#5)**

**Title:** Can comparative genomics reveal the nutritional mode of the plant pathogenic fungus *Paecilomyces niveus*?

**Faculty Sponsor:** Professor Jonathan González, Biology

**Abstract:** *Paecilomyces niveus* is a resilient plant pathogenic fungus that causes diseases of fruits, such as apples and oranges. *P. niveus* also produces the regulated mycotoxin patulin, and is unusually resistant to heat treatments, enabling spores to survive pasteurization. Importantly, the mechanisms by which *P. niveus* causes disease and tolerates heat have not been elucidated. Here, in a collaboration with a graduate student researcher at Cornell University, we are employing comparative genomics to generate hypotheses regarding these characteristics, namely by pursuing identification of the pathogen's nutritional mode (necrotrophy, saprotrophy, or hemibiotrophy) and potential pathogenicity mechanisms. Firstly, we are comparing functional predictions of protein repertoires of *P. niveus* and close relatives with known and unknown nutritional modes. Secondly, we are conducting whole genome-alignments between the same. Predicted proteins and genomes were acquired from public databases and processed using bioinformatic software to identify proteins possibly involved in pathogenicity and their function. Whole-genomes were processed similarly to identify unique characteristics of *P. niveus* genome architecture. After curation, data will be analyzed using statistics and phylogenetics. These findings will be used to generate hypotheses regarding nutritional mode and pathogenicity mechanisms, which could lead to enhanced control measures for *P. niveus*.

**Motivation for Participating:** I hope to gain experience in communicating scientific data and presentation experience. I think it is very valuable to know how to properly present work, and to be able to accurately answer questions asked about your work. I think I will learn a lot about what goes into these presentations and how to make connections through presentations like this.

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## Poster Presentations

### Kevin Brown, Nicholas Tschetter, David Walk (#6)

**Title:** X-Culture Global Virtual Team Experience: Cocci Grifoni Argentina and for US Markets

**Faculty Sponsor:** Professor Jennifer Leigh, School of Business and Leadership

**Abstract:** In this poster the team of X STUDENT will discuss their intensive global virtual team project on Cocci Grifoni. Cocci Grifoni is a wine company in Italy. We were tasked with researching new potential markets for Cocci and determining the pricing and steps required in order to enter new markets. 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:** Course requirement, BLDR43080-21SP Sr Seminar on Leadership

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### Clare Brownell, Elyse Gosney, Alyssa Long, Dana Damiani (#7)

**Title:** Digital Marketing Strategy for Uashmama

**Faculty Sponsor:** Ms. Kathleen Hansen and Professor Elisa Barbieri, Center for international Education (CIE)

**Abstract:** What? As a class we learned about Uashmama, an innovative Italian family-owned business that promotes intentional living through sustainable goods designed and crafted in Tuscany, Italy. Their items are produced exclusively with their washable AGGO paper in combination with leather and organic cotton. We developed a digital marketing strategy for the brand to increase brand awareness and attract potential customers. How? We worked in close relationship with the company, having regular video calls with the marketing manager/owner. We visited the company with a virtual production and shop tour. We learned about their philosophy, goals, products, and consumer profile. We analyzed what was working and what needed improvement. We looked at consumer trends and up to date digital marketing ideas. We worked on a content marketing activity and developed a UGC idea to increase online brand curiosity and engagement. Why? We developed this project to put into practice what we have learned during our Digital Marketing/ Branding virtual course. We took advantage of the opportunity to work on a real client brief in close relationship with the brand. This helped us to understand some marketing dynamics in the real world and get to know how companies work in different cultures.

**Motivation for Participating:** We hope to gain better presentation skills and to be more confident when presenting something that we have worked hard on. We also hope to get different perspectives from whoever chooses to view our poster.

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**Mateo Capriotti, Connor Davis, Connor Broderick, Dan Serpe (#8)**

**Title:** X-culture, Cocci Grifoni: Entering the American, Japanese, and European Markets

**Faculty Sponsor:** Professor Jen Leigh, Business and Leadership

**Abstract:** In this poster we will discuss the different strategies used advised to Cocci Grifoni to enter different markets all over the world. Cocci Grifoni is a family owned winery in Italy that prides itself on being a “green” company and focusing on making great wine and helping the planet. We created reports for them to show where we thought there was an opportunity to enter a market all over the world and advised them on how to do it. The poster will provide an overview of the X-culture experience and the company itself along with pieces of the reports we constructed highlighting the important aspects of our projects. We will demonstrate the use of trade and scholarly data in the decision making and recommendations we provided. We’ll offer a logical argument for all that we proposed to the company.

**Motivation for Participating:** Course requirement, BLDR 430, Senior Seminar on Leadership

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**Thomas Cincebox (#9)**

**Title:** Washington State Economy Data Visualization

**Faculty Sponsor:** Professor DaBoll-Lavoie, Economics

**Abstract:** Data visualization of government expenditures at the state and local school district levels using Tableau to explore differences within states.

**Motivation for Participating:** Compare and analyze the differences in state education spending with other classmates

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**Ilianna Cohen (#10)**

**Title:** Detroit '67 Costume Design

**Faculty Sponsor:** Professor Yuanting Zhao, Theater and Dance Department

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**Abstract:** The costume designing of the Nazareth Theater and Dance Department's production of Detroit '67, a play that takes place in Detroit of 1967. My responsibilities included researching the time period, researching the show's nuances, designing the costumes, helping to construct the costumes, buying the costumes, and collaborating with the rest of the design team to create a cohesive show. This was my first experience as a full costume designer for a department production and first time working with an outside director which provided many new learning experiences. As the only upperclassman Theater Design and Technology major, the designing of the show fell to me; thus, extra care had to be taken in the research process because I am a white individual and therefore not a member of the black community around which the show is centered. This process helped me learn a lot about how to work as a designer.

**Motivation for Participating:** I would like to demonstrate some of what happens behind the scenes of a theatrical production; it can be a very mysterious process to those unfamiliar with it, and hard to dissect for those interested in it. By bringing the process to light and talking about how I feel I succeeded and where I had a lot of learning to do, it cracks open the little box technical theater sits within in people's minds.

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### Jake Costa (#11)

**Title:** Data visualization of government expenditures at the state and local school district levels using Tableau to explore differences within states

**Faculty Sponsor:** Professor Joseph DaBoll-Lavoie, Economics Department

**Abstract:** Digging into the specifics of Texas's government expenditures using a program called Tableau to show and easy to look at data sheet. I used a program called Tableau to provide the data visualization so we as people can better understand certain expenses in government spending. For my public finance class, I needed to do this project so we can get this out to the public to educate others.

**Motivation for Participating:** Course requirement, ECO 419 Public Finance

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### Jeffrey Dargiewicz (#12)

**Title:** ECO419-80 Data Visualization of Government Expenditures at the State and Local School District Levels in Maine Using Tableau.

**Faculty Sponsor:** Professor Joesph DaBoll-Lavoie, Business and Leadership

**Abstract:** For my 419 Public Finance Class, I took school finance data for Maine from the Census Bureau and education expenditure data from the National Center for Education Statistics. Then I visualized the data and what I found using Tableau.

**Motivation for Participating:** Course requirement, 419 Public Finance

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**Lassana Diaby, Jiechen Wang (#14)**

**Title:** X-Culture Global Virtual Team Experience: Restaurant Adaptations during COVID-19--the Case of Troitsky Most in St. Petersburg Russia

**Faculty Sponsor:** Professor Jennifer Leigh, School of Business and Leadership

**Abstract:** In this poster, the team of two students will discuss their intensive global virtual team project on the restaurant Troitsky Most. This poster will provide insights on how this vegan establishment located in St. Petersburg Russia can adapt its business model to survive COVID-19. 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:** Course requirement, BLDR 430

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**Keaton Doon (#15)**

**Title:** Tableau Data

**Faculty Sponsor:** Professor Joesph Daboll-Lavoie, School of management

**Abstract:** Worked on bringing data from excel to a website that makes graphs and charts

**Motivation for Participating:** Course requirement, Public Finance 419

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**Moises Ferreras (#16G)**

**Title:** A Sense of Belonging Research

**Faculty Sponsor:** Professor Diane Enerson, HESAA

## Poster Presentations

**Abstract:** I conducted a research looking at Nazareth colleges Black and Latin X students. In order to better get a sense of this I did a phenomenology study using interviews with Black and Latin X students about their experiences on campus at Nazareth College. Ultimately, the goal is to allow the institution to measure the success of their diversity and inclusion plan, help implement internal and external changes that makes an environment comfortable and inclusive for Black and Latin X students, and show the students, community and potential Black and Latin X students that Nazareth truly cares about their well-being being and their environmental adjustment and integration to the school.

**Motivation for Participating:** Course requirement, HESAA 590- Integrative Capstone

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### Lindsay Fink (#17)

**Title:** Racial Disparities and HIV

**Faculty Sponsor:** Professor Leanne Charlesworth, Social Work

**Abstract:** In Fall 2020 I took Social Work Research Methods, where students got to choose a topic to research throughout the semester. After developing a research question, we examined the current research surrounding our topics and used this to write a final paper. The research question I chose was “how does race impact health and treatment outcomes for those living with HIV?” I decided on this question because interning at St. Joseph's Neighborhood, I am learning about the social determinants of health, and becoming more aware of the inequities that exist within our healthcare system. Since I have only been exposed to looking at health inequities from a local standpoint, this project allowed me to examine this issue at a macro level. Although the AIDS Epidemic is no longer a trending headline, HIV and AIDS continues to impact the lives of many, especially queer people of color. I hope to use my research paper to inform others that just because the epidemic is over for some, does not mean it is over for all. My paper offers insight into how race impacts HIV health and treatment outcomes, as well as recommendations for how the U.S. might eradicate these racial disparities.

**Motivation for Participating:** I hope to gain experience presenting in front of others, and I look forward to being able to share what I have learned about HIV and the impact race has on treatment and health care outcomes. I also hope to receive feedback from others and engage in meaningful discussions.

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**Amanda Foster (#18)**

**Title:** "Never Give Up" or "It's Time To Give Up"?: How Quotes Can Prime Individuals' Self-Esteem

**Faculty Sponsor:** Professor Lindsey LaPlant, Psychology

**Abstract:** This project is my PSY 202 research study proposal that turned into a virtual independent research project (PSY 486) during Fall 2020. The purpose of this study was to prime individuals with either a set of optimistic or pessimistic quotes to see if it would have an effect on a person's self-report of their self-esteem via the Rosenberg Self-Esteem Scale Questionnaire. The scale is scored on a 4-point Likert scale from "strongly agree" to "strongly disagree" and was reversed scored for selected questions. This study went beyond previous research, as it involved using a set of various quotes with the established concepts of priming and self-esteem. I hypothesized that the individuals who read the pessimistic quotes prior to the self-esteem questionnaire would have lower self-esteem scores than the individuals who read optimistic quotes prior to the self-esteem questionnaire. However, the results failed to support the hypothesis. A convenience sample of college aged psychology students volunteered as participants for this study. Overall, through the usage of priming individuals with optimistic or pessimistic quotes prior to reflection on their own self-esteem, results will help support future research on these topics.

**Motivation for Participating:** By presenting my research at CARS, I want to show the work that I completed to the Nazareth community, especially the participants in my study and also gain insight from others about these topics in my research.

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**Sophie Fowler, Madison Stephens (#19G)**

**Title:** Parents' Perspective of Supports and Services Which Increase Independence in Their Child With ASD

**Faculty Sponsor:** Professor Elizabeth Hebert, Occupational Therapy

**Abstract:** Increasing independence over the lifespan, especially during school years, is an important characteristic for typically developing individuals as well as individuals with Autism Spectrum Disorder (ASD). Transition periods through school years bring about difficulties and challenges with new roles and occupational demands due to their ASD characteristics/traits or other comorbid diagnoses. After an in-depth literature review, past research shows that many strategies can help to increase independence, including: parent-mediated strategies, sensory strategies, cognitive behavioral therapy, community-based programs, self-monitoring strategies, physical activity, yoga, and technology. After completing interviews with parents of children with ASD, key themes researchers found include: definition of independence by age, barriers to finding

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services in the community, parents fighting to keep school services, and parents' perspective of the most beneficial aspects of services.

**Motivation for Participating:** We hope to inform the community on our research topic. We want to obtain feedback from peers, professors, and members of the Nazareth Community on our research. We are also looking forward to learning about other research.

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### Emma Golden (#20)

**Title:** The Analysis of Acrylic Paint Samples with FT-IR Spectroscopy

**Faculty Sponsor:** Professor Amber Charlebois, Chemistry and Biochemistry

**Abstract:** In art conservation, the identification of types of paint and pigment used in the composition of the work can help identify the period the painting was created, the artist who painted the piece, or the kinds of materials required for repair or conservation. One of the ways that conservators can analyze paint samples is with infrared spectroscopy. For my independent study, I chose three common pigments to study. This included taking different brands of acrylic paint, as well as raw pigment to understand what peaks from the IR were a result of pigments and which were from the fillers added to the paints. As the culmination of this work, I took paintings from friends and owned by the school and studied them with the FT-IR in an effort to identify what pigments were present.

**Motivation for Participating:** Hope to get more experience presenting in front of people, and presenting scientific information in a way that the general public can understand.

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### Owen Gonzalez (#21)

**Title:** Data Visualization of Government Expenditure

**Faculty Sponsor:** Professor Joseph DaBoll-Lavoie, School of Management

**Abstract:** Data visualization of government expenditures at the state and local school district levels using Tableau to explore differences within states. What we're learning about data visualization.

**Motivation for Participating:** Course requirement, ECO41980- Public Finance

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**Amber Xiao Han (#22)**

**Title:** Dueling Duos of Another Gender

**Faculty Sponsor:** Professor Bonnie Choi, Music

**Abstract:** Why is it that when one searches the Web for piano duet or duo literature, only works by male composers come up? Women composers have certainly made significant contributions to this body of literature and yet they lack proper recognition. Musicologist Marcia Citron has speculated that “women composers typically wrote smaller works” of which piano duets and duos would be a typical example. So, there should be plenty of them. And indeed there are.

**Motivation for Participating:** Presenting my research and learn from my peers.

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**Mara Hartwell, Jessica Klem, Abigail Cleveland, Nivia Britt (#23)**

**Title:** An Injury Prevention Intervention for Migrant Farm Workers in New York State

**Faculty Sponsor:** Professor Michael Chen, Public Health

**Abstract:** Migrant farm workers (MFWs) face increased risks of preventable work-related injuries that can lead to temporary and long-term disability as well as death. These risks are compounded by related health determinants including lack of insurance, geographic isolation, lack of transportation, and worries about being undocumented in the United States (e.g., deportation). As a result of these factors, MFWs who experience injuries while working are less likely to seek medical treatment and thus more likely to develop complications and permanent disabilities. To tackle these related health challenges, we propose to develop a comprehensive injury prevention program. First, farm workers will learn specific strategies to decrease injury risks (e.g., stretching, form, machinery operation, etc.) and safe resources within their community to obtain medical care. Second, farm operators (employers) will receive coaching on how to address and support the health and social needs of MFWs. By decreasing the incidence of preventable work-related injuries suffered by MFWs, this will improve overall community health and enhance the productivity of agricultural practices (e.g., less absenteeism). We will also describe a preliminary strategy to assess the impact of our educational intervention on MFWs’ knowledge about injury prevention and attitude toward care-seeking behaviors.

**Motivation for Participating:** Course requirement, PBH480 Senior Capstone

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## Poster Presentations

### **Michael Hughes, Parker Boyer, Briana Lotempio, Erika VinCola (#24)**

**Title:** Pesticide Poisoning Among Migrant Farm Workers

**Faculty Sponsor:** Professor Michael Chen, Public Health

**Abstract:** Pesticide poisoning is an important occupational health issue due to the fact that many industries and farms frequently use pesticides, putting their workers at a greater risk of pesticide illness. Migrant farm workers (MFWs) are frequently exposed to pesticides, including methomyl, cypermethrin, and mancozeb, which place them at higher risks of developing respiratory illnesses including tuberculosis, asthma, and chronic bronchitis. There's around 5.1 billion pounds of pesticides used each year, and thousands of farmworkers experience the effects of acute pesticide poisoning, including headaches, nausea, shortness of breath, or seizures. Migrant workers can access care without insurance and these facilities include MHC(Migrant Health Center) and FQHC(Federally Qualified Health Care), which are free federally qualified clinics for farmworkers to use when in need of healthcare. This is significant among this population because it gives them places to go to seek out healthcare even if they don't have health insurance. There are many language barriers, low health literacy, and slim access to healthcare which inhibits the m from getting the care they need. Our intervention will include targeting farm owners to implement safety training policies involving proper PPE, including mask wearing and monthly blood screenings.

**Motivation for Participating:** Course requirement, PBH 480 Senior Capstone

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### **Aydan Karakus, Nurdan Karakus, Emilee Rosenberg, Brenea McLeash (#25)**

**Title:** Strategy to Prevent HIV/AIDS Among Migrant Farmworkers in New York State

**Faculty Sponsor:** Professor Michael Chen, Public Health

**Abstract:** Each year, thousands of migrant farmworkers (MFWs) travel to New York State and other parts of the U.S. to contribute to agricultural operations including fruit and dairy farms. Studies show that MFWs face increased risks of exposure to human immunodeficiency virus (HIV), with prevalence estimated between 2.6% to 13%. Known risk factors include poverty, lack of access to health care, language barrier, low health literacy, engagement in high-risk sexual behaviors (e.g., condom avoidance), and social exclusion. In response to these challenges, we developed a community health intervention to reduce HIV risks among the MFW population. Based on the Health Belief Model, we propose to develop a bilingual health education curriculum on HIV prevention for MFWs, expand access to HIV testing, conduct health communication campaigns to reduce stigma within the MFW population, and provide cultural competency training to providers of health and social services. A preliminary evaluation plan to determine the

impact of our proposed program on MFWs' usage of HIV services, knowledge and perception of HIV, and health outcomes will also be presented.

**Motivation for Participating:** Course requirement, PBH480\*70 Health Program Planning and Evaluation (Senior Capstone)

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**Katherine King (#26)**

**Title:** Voices of Survivors of Domestic Violence

**Faculty Sponsor:** Professor Rebecca Rouland, Social Work

**Abstract:** For this project, 50 stories of survivors of domestic violence were analyzed using qualitative data analysis approaches. Specifically, the voices of these survivors were heard and themes of the lived experience were considered. Additionally, how domestic violence impacts individuals with disabilities was reviewed. Ways of coping and healing were identified based on the survivor's voices and perspective. A review of the literature related to the topic was also completed. These topics were explored within a social work context to inform future practice including engagement, assessment, and intervention.

**Motivation for Participating:** I hope to gain experience presenting research. I think this presentation would be helpful to inform future conferences and dissemination of information related to the important topic of survivors of domestic violence.

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**Monica Lenzi, Dylan Sacco, Vivian Lucas, Ryan Lalik (#27)**

**Title:** CapSource

**Faculty Sponsor:** Professor Jennifer Leigh, Business

**Abstract:** In this poster the team of 4 student will discuss their intensive global virtual team project on CapSource. CapSource is an experiential learning company looking to expand its Virtual Internship Program. CapSource is looking to expand its Virtual Internship Program into a new market. 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:** Course requirement, BLDR430 Senior Seminar on Leadership

## Poster Presentations

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### Louise Iy (#28G)

**Title:** A Historical Analysis of Technology in Higher Education

**Faculty Sponsor:** Professor Diane Enerson, Psychology

**Abstract:** Technology has rapidly grown in the last few decades and that growth has impacted Higher Education at the student and faculty level as well as institutionally. From using emails and smart boards to learning management systems and augmented reality, digital technology's growth has been reflected in the educational sphere. This project examined the development of digital technologies within Higher Education to analyze the impact on the institution, students, and faculty.

**Motivation for Participating:** Course requirement, HESAA 590

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### Abby Manning, Megan Griffin (#29)

**Title:** Exploring the Interactions Between Cresyl Violet and Nucleic Acid Molecules

**Faculty Sponsor:** Professor Amber Charlebois, Chemistry and Biochemistry

**Abstract:** This research project examines the interactions that take place between cresyl violet (CV), an organic compound used for staining tissue and neurons, and nucleic acids. CV is a planar molecule that forms a complex with DNA and RNA and generates different colors. Running different sequences of DNA and RNA oligos, 15 bases in length, through gel electrophoresis and using CV as the stain produces the color differences. RNA tends to be stained more of a purple color while DNA stains as a bluer tone. To more precisely quantify these colors UV-Vis spectroscopy is used. In gel a fiber optic UV-Vis is used to analyze the band on the gels, and a Cary 60 is used for the solution studies. The wavelength scans of the different oligos are unique with multiple peaks/forms present and therefore indicate that these nucleic acid-CV interactions may be base dependent. To further explore the CV local environment, we have experimented with different pHs around the pKas of the molecule. CV has been found to have distinctive spectra for each pH, similar to what is observed in the CV stained nucleic acids, providing insight into the local environments within the DNA and RNA oligos. PeakFit (Systat Software Inc.) continues to be used to identify and quantitate the peaks which represent the monomer, dimer and other unique forms.

**Motivation for Participating:** By presenting at CARS I hope to build communication and presentation skills, as well as share the exciting work that I have been working on for three semesters.

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**Madisyn Marks, Jessica Granchelli, Hannah Smith (#30)**

**Title:** Protein Structure Analysis Using Reversed-Phased HPLC Chromatography

**Faculty Sponsor:** Professor Amber Charlebois, Chemistry

**Abstract:** We looked at the retention times of different proteins (lysozyme and trypsin) in different forms based on how many disulfide bonds were still intact (native, denatured, reduced). We did this by running the various forms through the HPLC and analyzing the peaks we received. We are doing this to develop an upper level biochemistry lab to give students a better understanding of protein structure as well as experience with an HPLC.

**Motivation for Participating:** Presentation experience and improved public speaking.

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**Emily Mastellar, Wantong Jiang, Nazir Shaw, Justin Pumputis (#31)**

**Title:** X-Culture Internatioanl Program--Troitsky Most's stratigies post-COVID 19

**Faculty Sponsor:** Professor Jennifer Leigh, School of Business and Leadership

**Abstract:** The project is a proposal for Troitsky Most, a vegan restaurant in Russia, developing business operates. Our goal is to help not only Troitsky Most but applicable to all restaurants that see their business dwindle as a result of lockdowns caused by the COVID-19 crisis. We will do so by providing business analysis and possible marketing strategies that would appeal to that type of restaurant.

**Motivation for Participating:** Course requirement, BLDR42081-21SP Innovation & Entrprnrshp - 21SP

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**Cole Moore (#32)**

**Title:** data visualization of government expenditures at the state and local school district levels

**Faculty Sponsor:** Professor Joseph Daboll-Lavoie, Economics

**Abstract:** The project includes thorough research in the state of Florida, gathering information on their state and local expenditures throughout school districts. This is portrayed using a platform called Tableau, which creates visualization of data and statistics. I did this project for my Public Finance class.

## Poster Presentations

**Motivation for Participating:** Course requirement, Eco 419 Public Finance

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### Zachary Mullally (#33)

**Title:** California Public Finance Data Visualization

**Faculty Sponsor:** Professor Joseph DaBoll-Lavoie, SBL/Finance

**Abstract:** 1) Organized raw data on complex public sector revenues and expenditures from various sources into more insightful visualizations 2) Utilized state and federal government sources to find crucial data. Once data was found, unions were created between text and spacial files to incorporate raw data into geographic illustrations. 3) This was done to illustrate trends in both revenues and expenditures that would have otherwise gone unnoticed in its original format.

**Motivation for Participating:** Course requirement, ECO41980-21SP Public Finance

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### Matthew Palmer (#34)

**Title:** Competent.PM

**Faculty Sponsor:** Professor Jennifer Leigh, Business Management

**Abstract:** My group analyzed the company Competent.PM which is a company who has created a service where they provide companies with a team building service in the form of a game. We analyzed all aspects of their products and how they function. We did this project because we were assigned it through X Culture.

**Motivation for Participating:** Course requirement, BLDR430

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### Sean Payrot (#35)

**Title:** White Perovskite Synthesis

**Faculty Sponsor:** Professor Sanela Lampa-Pastirk, Chemistry

**Abstract:** Now more than ever green energy is the key to fixing climate change in the world. We have a finite amount of nonrenewable energy sources but an infinite amount of natural resources. The need to harness this energy grows with each day. Solar cells can be created with the use of perovskite nanocrystals. This research provides the synthesis of white perovskites nonocrystals using the method provided by Mao et al.

The perovskites are analyzed using UV-Vis and spectroscopy for testing efficiency and stability in the solar cells.

**Motivation for Participating:** Course requirement, SCI450 Advanced Science Research

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### **Sienna Prieto (#36)**

**Title:** Establishing a Nazareth Community Garden

**Faculty Sponsor:** Professor Jaime Fazio, Center of Spirituality

**Abstract:** For this year's CARS presentation, I would like to showcase my process on proposing the establishment of a Community Garden. The simple act of gardening has an infinite list of benefits that I believe this campus should be offering to its students, staff and faculty. From learning the process of food production, decreasing food insecurity, adding new healthy practices, to increasing our community relationship after a chaotic year; I believe that having a green space on campus focused on agriculture and sustainability really matches with Nazareth College Mission and and Vision and therefore more students should learn about it to come onboard and push even further the necessity of having this space.

**Motivation for Participating:** Course requirement, OCL48370-21SP Interdisciplinary Intern I

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### **Glenn Ramos (#37)**

**Title:** ECO 419 Public Finance: data visualization of government expenditures at the state and local school district levels using Tableau to explore differences within states

**Faculty Sponsor:** Professor Joseph Daboll- Lavoie, Business

**Abstract:** For ECO 419 (Public Finance) we are using a data visualization software called Tableau to show off different aspects of a specific state. My state is Pennsylvania and I will be showing government expenditures at the state and local school district levels

**Motivation for Participating:** Course requirement, Eco 419 Public Finance

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## Poster Presentations

### Jacob Rhea (#38)

**Title:** DARTdrones USA

**Faculty Sponsor:** Professor Jennifer Leigh, Business

**Abstract:** We were set up in an international team with students across the world. We had to come up with a report that stated which markets would be the best to get into for our specific company. This was a great experience as it taught us to work better as a team even with some barriers between the cultural differences.

**Motivation for Participating:** Course requirement, BLDR 430-80

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### Ruth Riggie (#39)

**Title:** The Perceived Stigma of Cluster A Personality Disorders: Based on Test-Taking and Provided Information

**Faculty Sponsor:** Professor Lindsey LaPlant, Psychology

**Abstract:** Providing people with factual information has been shown to decrease stigma of mental illness, specifically personality disorders. Participants rated statements regarding schizotypy, and were asked to respond as a neurotypical individual or as someone with a Cluster A personality disorder, they were either given DSM-5 diagnostic criteria or no information. Results showed a significant difference in how participants responded to statements. However, no significant differences were seen in relation to information or in the interaction.

**Motivation for Participating:** I hope to gain more experience with public speaking, and disseminating my research to a larger audience.

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### Lindsey Roe, Rachel Wilson, Victoria Arena, Kathryn Batz (#40)

**Title:** The Importance of Vaccinating Migrant Farm Workers

**Faculty Sponsor:** Professor Michael Chen, Public Health

**Abstract:** The health and well-being of migrant farm workers (MFWs) are shaped by their socioeconomic status (SES), health literacy, and environmental exposures. Prior research shows that as compared to the general population, MFWs have significantly lower rates of vaccination. Due in part to lack of access to health services, many MFWs remain unvaccinated or under-vaccinated over time, which is likely contributing to an increasingly worrisome health disparity. Low SES and health literacy lead to a lack of

awareness and/or misunderstanding about the protective benefits of vaccines, which can in turn exacerbate MFWs' susceptibility to vaccine preventable diseases such as influenza, tetanus, pertussis, and pneumococcal infections. In response to these challenges, we have developed an intervention to establish on-site "clinical camps" at farms in order to promote vaccine awareness, conduct community outreach, and improve immunization rates among MFWs. As the incidence of vaccine preventable illnesses decrease among MFWs, their productivity is expected to increase (i.e., less absenteeism), which in turn adds to the profitability of agricultural operations. A preliminary strategy to assess the impact of our proposed intervention on MFWs' vaccination rates and health outcomes will also be presented.

**Motivation for Participating:** Course requirement, PBH 480 Senior Capstone

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**Jesse Rubel, Timothy Conrad, Raymond Falso, Nathaniel Ancona, Ningyuan Zhang (#41)**

**Title:** X-Culture Global Virtual Team Experience: Novabrink Global Opportunities

**Faculty Sponsor:** Professor Jennifer Leigh, Business

**Abstract:** X culture project for Business seminar. We worked with kids from around the world in order to learn about a certain company. Learning about different markets was beneficial, especially while working with people around the world. We did this because it was assigned through our teacher in order to learn about various markets and cultures.

**Motivation for Participating:** Course requirement, BLDR 43080 Sr Seminar on Leadership

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**Adrien Stone (#42)**

**Title:** Data visualization of government expenditures at the state and local school district levels using Tableau to explore differences within the state of New York.

**Faculty Sponsor:** Professor Joseph DaBoll-Lavoie, School of Business and Leadership

**Abstract:** I used census data to create State mapping of expenditures and revenue allocation to the school districts across NY. I used Tableau software to create a map and other visualizations to help make sense of the data. This is part of a class and one major assignment that is required of us to complete.

**Motivation for Participating:** Course requirement, ECO 419-- Public Finance

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## Poster Presentations

### Mackenzie Szefel (#43)

**Title:** Mobile Hygiene stations for Migrant Farm workers

**Faculty Sponsor:** Professor Michael Chen, PBH

**Abstract:** Communicable diseases (CDs), unsanitary working conditions, and exposure to environmental heat pose serious threats to the health of many migrant farm workers (MFWs) in the United States. For example, recent estimates suggest that MFWs are 20 times more likely to die from heat-related illnesses as compared to domestic (non-migrant) farm workers. Research has also demonstrated that proper handwashing techniques and improved sanitation are highly effective methods to disrupt CD transmission and improve population health. To address these related health problems (i.e., CD transmission and heat exposure), we designed a workplace-oriented intervention that includes the development of low-cost mobile hygiene stations and community health education. Mobile hygiene stations will provide access to handwashing supplies (i.e., soap, water, sanitizer) as well as clean water for hydration, which can help prevent heat-related illnesses and even death. Educational workshops in Spanish (and other languages as needed) will be developed in partnership with local community-based organizations and stakeholders (including farm operators) on the importance of handwashing techniques and other health-related topics. A plan to evaluate the impact of our proposed intervention on MFWs' hygiene practices, health outcomes, and water consumption will also be presented.

**Motivation for Participating:** Course requirement, PBH480

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### Sidney Taylor (#44)

**Title:** ZenCV X-Culture Project

**Faculty Sponsor:** Professor Jennifer Leigh, Business

**Abstract:** I connected and participated in a group project with different kinds internationally to finish a group paper on a company we all researched. We read and studied our company and communicated on how the information was presented and come up it and siting them. We did it because it was a assigned project for class and it was beneficial to our overall learning experience.

**Motivation for Participating:** Course requirement, Senior Seminar BLDR-430

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**Kevin Underwood (#45)**

**Title:** Data Visualization at the State and Local School District Levels Using Tableau

**Faculty Sponsor:** Professor Joseph Daboll-Lavoie, Business and Leadership

**Abstract:** I will be showing a data visualization using Tableau describing state and local school district levels.

**Motivation for Participating:** Course requirement, ECO 419 Public Finance

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**Alyssa Van Auker, Nyjae Stevens, Julia Cavanaugh, Jorianna Pistritto, Jacob Edmands (#46)**

**Title:** X-Culture Global Virtual Team Experience: Cocci Grifoni Wine

**Faculty Sponsor:** Professor Jennifer Leigh, School of Business and Leadership

**Abstract:** In this poster the team of X STUDENT will discuss their intensive global virtual team project on Cocci Grifoni. Cocci Grifoni is a Wine Company based out of Italy. They requested guidance in deciding upon a new global market to enter into, and a detailed report of how they would do so.. 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:** Course requirement, BLDR 430 Senior Seminar on Leadership

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**Clarissa Weis (#47)**

**Title:** Religious Studies Media Archive Project

**Faculty Sponsor:** Professor Bishal Karna, Religious Studies

**Abstract:** I have been working with Dr. Bishal Karna on the Religious Studies Media Archive Project. Last year, I developed a system to collect, organize, categorize, archive, and display media relating to various aspects of religion taken by the Nazareth community. This year, I have been documenting the impacts of COVID-19 on religious observance. I observed and photographed events organized by religious communities on campus to document the changes in their practices during the pandemic. I have also

## Poster Presentations

been collecting oral histories from students to document their experiences with religion during the pandemic. In addition, working with Dr. Karna, I have developed a proposal to organize a round-table discussion on religion and the pandemic among local religious community leaders and religious studies faculty. Findings from attending on-campus religious events, the photographs, and the oral histories will form the basis of the poster presentation. Lastly, it will showcase how I have been able to put into practice knowledge, skills, and tools from my Museums, Archives, & Public History major, while also developing specialty in the area of religion.

**Motivation for Participating:** I want to improve my public speaking and presentation skills. Also, I want to inform others of the project and encourage their participation.

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### Christian Winkler (#48)

**Title:** Data Visualization of Government Expenditures (Virginia)

**Faculty Sponsor:** Professor Joseph DaBoll-Lavoie, Business and Leadership

**Abstract:** Data visualization of government expenditures at the state and local school district levels using Tableau to explore differences within states.

**Motivation for Participating:** Course requirement, ECO 419 Public Finance

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### Lauren Young (#49)

**Title:** Tableau Data Visualizations - North Carolina

**Faculty Sponsor:** Professor DaBoll-Lavoie, Business and Leadership

**Abstract:** 1) I pulled data in from various sources regarding different topics for the state North Carolina in order to create data visualizations. 2) I searched topics assigned for my state, pulled the data into an excel sheet, and finally exported the excel sheet into Tableau to create a visualization. 3) I did this for the class ECO 419 (Public Finance) because it helps organize state data in a clear picture.

**Motivation for Participating:** Course requirement, ECO 419-80

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**Tyler Young (#50)**

**Title:** Using Expressive Writing to Reduce State Anxiety After Engaging in Stressful Tasks

**Faculty Sponsor:** Professor Lindsey LaPlant, Psychology

**Abstract:** Anxiety is meant to be beneficial, but it can also have many negative impacts on our health and well-being. For some, these emotions present no significant harm, but for others it can lead to distress and impairment. Despite this, people may not receive professional treatment for a variety of reasons, including financial or personal matters. Because of this, coping mechanisms that can be done independently need to be further explored to ensure the well-being of all. Expressive writing is one such mechanism that has been previously researched in numerous contexts. This involves writing about all emotions that one is experiencing in regards to either a specific event or their lives in general. Previous research has found that expressive writing can have many long-term benefits on one's life including improved academic performance, increased satisfaction in life, and decreased feelings of anxiety and isolation. The present study addressed the short-term effects of expressive writing on state anxiety in undergraduate students. Participants were presented with a stressful task and then asked to write about either their emotions and experience with the task or a neutral topic. After writing, participants completed an inventory assessing state anxiety levels, and these were compared between the groups.

**Motivation for Participating:** Course Requirement, PSY 486: Research in Psychology

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# ***Service Learning & Study Abroad***

**Farida Abdul Hosaini**

**Title:** Gilman Scholarship Project - Studying Abroad in Pecs, Hungary

**Faculty Sponsor:** Professor Nevan Fisher and Ms. Kathy Hansen, Center for International Education

**Abstract:** For my Gilman project, I put together a powerpoint that consists of a autoethnography and my experiences studying abroad in Hungary.

**Motivation for Participating:** I would like to promote Gilman and studying abroad to several Nazareth students as it is an amazing opportunity to be able to participate in. I would love to encourage other students to study abroad as it will expand their knowledge and help them become independent and a more confident person.

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## **Community Youth Development and Mayors' Youth Advisory Council**

**Title:** Racial Healing as the Heart of ChangeMaking

**Faculty Sponsor:** Professor Marie Watkins, Community Youth Development

**Abstract:** In partnership with the members of the Mayor's Youth Advisory Council, CYD students engage in reflective dialogue about the importance of racial healing as changemakers. The two semester service-learning partnership discussed components of servant leadership and the qualities of inclusive, empathic and self-aware leaders as future changemakers. The end result is a guidebook of inclusive leadership activities for Rochester youth development programs.

**Motivation for Participating:** Course requirement, CYD 480

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# ***SOARS Summer Research***

**Jessica Casper, Taylor Coonelly**

**Title:** Teachers' Microaggressions and Allyship in Children's Literature

**Faculty Sponsor:** Professor Cuthbert Rowland-Storm, School of Education

**Abstract:** We analyzed children's literature for examples of microaggressions and allyship by teachers towards students who either are African American, have a disability, or are LGBTQIA+. We used critical multicultural analysis in conjunction with thematic analysis to analyze patterns within works in texts. As we searched for themes, we found the two main themes of Academic Allyship or Microaggressions and Personal Allyship or Microaggressions.

**Motivation for Participating:** We hope to gain a better understanding how we can support inclusion in the classroom.

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**Kierstyn Christensen**

**Title:** Demographics of Veterans with SMI

**Faculty Sponsor:** Professor Courtney Forbes, Psychology

**Abstract:** Over the course of the summer we read articles that supported a deeper understanding of the research project (i.e. first-episode psychosis, evidence-based treatments, VA system of care, previous pathways to care research). I met with my faculty mentor twice weekly via Zoom – once individually, and once with me and the co-PI at the VA (Amy Wilson). Additionally, all three of us participated in a monthly VA-wide conference call discussing first-episode psychosis treatment program development with leaders in the field. I developed a coding scheme to collect data about veterans with serious mental illness diagnoses. Through research of other studies, and deliberation between members of the study, I was able to develop a cohesive and comprehensive way to collect data. I did this to effectively capture meaningful information about the demographics of veterans in the VA with an SMI diagnosis. This data was used to analyze characteristics of this population and understand who is accessing care through the VA.

**Motivation for Participating:** I hope to gain experience presenting meaningful data to a group of people. I hope to be able to accurately interpret the data in an understandable way to multiple audiences.

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## **SOARS Summer Research**

**Lindsay Fink, Sarha Smith-Moyo**

**Title:** Exploring Homeless Shelter Entry in Rochester

**Faculty Sponsor:** Professor Leanne Charlesworth, Social Work

**Abstract:** As a part of SOARS 2020, Lindsay Fink and Smith-Moyo spent the summer researching homelessness in Rochester. Recently, the number of individuals experiencing homelessness has increased in the United States. Our research analyzes 2019 data from 16 different emergency shelters in Monroe County. The data was collected through the County's Homeless Management Information System (HMIS), and individuals were de-identified and de-duplicated for analysis. The purpose of this study is to explore the basic characteristics of the homeless population in Monroe County, and the dynamics of shelter use. The results showed gender as a significant factor when analyzing the relationship between demographic variables and recorded reasons for shelter entry. Results also indicated age, and race or ethnicity did not significantly influence odds of re-entering a shelter, but did significantly influence reasons for shelter entry. Overall, the most common recorded cause of shelter entry in 2019 in the examined county was eviction by primary tenant. Recommendations to better address recurrent shelter entry and potential chronic homelessness include more consideration for the diversity existing within the homeless population, and the dynamics leading to shelter stays, including enhanced funding and training for shelter staff, as well as expanded access to permanent supportive housing programs.

**Motivation for Participating:** As students we hope to gain experience presenting in front of others, as well as look forward to sharing our findings with those at Nazareth and in the Rochester community. Since there are other students, staff, and faculty that engage with the homeless population in Rochester, presenting at CARS will give us the opportunity to engage with others and hear different perspectives.

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# ***Evening Graduate Poster Presentations***

**Stefanie Bunnell (#501)**

**Title:** Implementing Educational Technology to Promote Student Engagement

**Faculty Sponsor:** Professor Kerry Dunn, Graduate School of Education

**Abstract:** As a Clinical Assistant, I am completing a teacher research project in a remote, ninth grade Living Environments class. The class is split into four sections, two of which are inclusive co-taught classrooms. I have been researching and implementing educational technology in order to engage students in the science content. I work with students twice a week and have used technological tools for whole group instruction, formative assessments, and independent extension activities. I have been collecting data on attendance and participation in order to develop data systems that will represent the effectiveness of implementing educational technology tools for student engagement. I hope to determine how integrating these tools can impact student outcomes through their active involvement in the learning, especially in remote environments.

**Motivation for Participating:** I hope to gain a better understanding of how to research and implement tools I can use in my field to support students. In addition, I hope to gain more confidence in my abilities as an educator by sharing my findings with others in the field.

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**Michaela Cardone, Raechel Campisi, Kayla Nadelen, Katie Smith, Kylie Smith (#502)**

**Title:** Cognitive Decline and Fitness to Drive in People With Parkinson's Disease

**Faculty Sponsor:** Professor Kathleen Stoklosa, Occupational Therapy

**Abstract:** Parkinson's disease impacts an individual's visual and cognitive function and subsequently the cognitive-perceptual skills required to drive. The purpose of this quantitative research study was to explore if an association could be made between the results of several cognitive assessments for PwPD to determine one's ability to drive. Clinically significant results were found between the various assessments performed in the study and the Useful Field of Vision assessment. This poster will present our findings and implications for future healthcare practitioners.

**Motivation for Participating:** Course requirement, OTR 514: Research II Writing and Presentation

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## Evening Graduate Poster Presentations

### Emily Carrozzi (#503)

**Title:** Increasing Student Engagement in Virtual Learning (Evening)

**Faculty Sponsor:** Professor Kerry Dunn, School of Education

**Abstract:** As a Clinical Assistant, I am completing a teacher research project in an 11th grade special education and mathematics setting. I have been researching student engagement in virtual learning. I work with students twice a week, implementing educational technology and incorporating student interests into each lesson. I am collecting data on student engagement by analyzing student participation in class, attendance, and assessment scores. I believe that this research will help me to better understand student engagement and will help schools understand how to structure virtual instruction in a way that students are more engaged.

**Motivation for Participating:** I hope to learn more about myself as a students and researcher.

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### Rhea Coad (#504)

**Title:** Nazareth Athletic Surveys

**Faculty Sponsor:** Professor Diane Enerson, HESAA

**Abstract:** I am completing a descriptive analysis on the surveys that each student athletic completes at the end of their season. The student athletes at Nazareth College complete a survey at the end of their seasons. The survey is various questions about their experience and Nazareth College. The surveys are anonymous. Students are asked questions based on a rating system, and they are asked short answer questions. Short answer questions are in regards to the students' experience with their coach. The athletic department at Nazareth uses a company that stores the survey's as well as analyzes the data. The company also shows where Nazareth stands compared to other institutions that use the same company for their surveys. Other than looking at any thing concerning, Nazareth athletic department can't dive into this information like they would like. I intend to dive more into looking into demographics and majors etc do see if there is a correlation between that and poor rated surveys.

**Motivation for Participating:** Course requirement, HESAA59080-21SP Integrative Capstone

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### **Sara Coykendall, Destany Aldrich (#505)**

**Title:** See it, Say it, Feel it: A Multi-Sensory Approach to Phonics Intervention

**Faculty Sponsor:** Professor Kerry Dunn, School of Education

**Abstract:** As Clinical Assistants, we are each working two days a week with five students in grades K-2, and implementing a multi-sensory approach to intervention in phonics. Using a variety of assessment tools, we collaborated with the literacy team and classroom teachers to identify three Kindergarten students, one first-grade student, and one second-grade student, each of whom require additional instruction in internalizing letter-sound relationships. Working with these students in a one-on-one setting, we have been implementing interventions which pair visual, auditory, and tactile information to help students internalize letter names and sounds. We have tracked students' progress using a combination of informal observation and formal assessment tools, and have seen growth in each student's ability to identify letters by name and sound. This research will be used to inform our future work as educators as we help students build the foundational skills they require to become proficient readers and writers.

**Motivation for Participating:** We hope to gain experience in presenting research on foundational literacy skills and strategies for effective intervention, which will be an important aspect of our roles as literacy specialists.

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### **William DeRoo (#515)**

**Title:** Integrating Technology: The SAMR Model and Gamification (in a Pandemic)

**Faculty Sponsor:** Professor Kerry Dunn, School of Education

**Abstract:** As a Clinical Assistant, I have been completing a teacher-researcher project in a sixth-grade self-contained social studies classroom. Just over a year ago, the Covid pandemic forced schools across the country to rely more on digital technology than ever before. I have been teaching and researching how to best implement various levels of technology into lessons to meet students' digital and nondigital needs. I am hoping to determine the best uses of technological integration through several digital platforms, specifically regarding the SAMR model and gamification.

**Motivation for Participating:** I am hoping to determine the best uses of technological integration through several digital platforms, specifically regarding SAMR model and gamification. By presenting at CARS, I hope to gain confidence in presenting my data, which I will do two more times by the end of June as part of the Clinical Assistantship program specifications.

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## Evening Graduate Poster Presentations

### Paige Ensby, Margaret Bateman, Marisa Joyce, Julianna Gatto (#506)

**Title:** An exploration of the support Early Intervention therapists provide to families receiving services in the Greater Rochester, NY Area, a phenomenological investigation.

**Faculty Sponsor:** Professor Michelle Donahue, Physical Therapy

**Abstract:** The purpose of this phenomenological study was to understand the support provided by physical therapists in the Greater Rochester Area to families who have been receiving Early Intervention (EI) services for at least 6 months. Support was generally defined as a consistent collaboration between the physical therapist and family to allow for families to have equal influence in the decision-making process, active listening on the part of the therapist, and being responsive to families' needs throughout the entire time they are receiving EI services. We conducted purposeful, criterion sampling to select 9 physical therapists that have provided EI services to at least one child on their caseload for the same family for at least six months in the Greater Rochester Area. Participants participated in a 30-45 minute semi-structured interview which was conducted and recorded over zoom. Following each interview, they were transcribed verbatim, de-identified, and then sent to each participant for member-checking. Within and between-case analyses of themes were used to understand the complex factors of support provided by PTs to families in the Early Intervention setting. An Interview Protocol Guide was used and a pilot study of questions was used for validity.

**Motivation for Participating:** Course requirement, PTR 761 Research V

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### Allysa Gibson (#507)

**Title:** Does an Additional EverFi Online Sexual Assault Prevention Training Increase Students' Knowledge of Sexual Assault Prevention?

**Faculty Sponsor:** Professor Diane Enerson, Higher Education Student Affairs Administration

**Abstract:** The purpose of this research is to compare the data collected from the Campus Climate Survey in 2018 and 2020 to examine if the additional 2020 EverFi course made a difference in the incoming student's knowledge of sexual assault and Title IX information. Participants included the incoming class of 2018 and the incoming class of 2020. Research has shown that an on-going education around sexual assault is the most beneficial. The Campus Climate Survey is a required survey that colleges that receive federal funding must administer to get a sense of trends happening on campus. Through research, it is said that an online module would be beneficial to accompany a larger, in-person event well to educate students. Due to my background in public health

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and interest in health education, I am passionate about this topic and educating our community. I hope that this research evolves and produces change around sexual assault awareness on our campus.

**Motivation for Participating:** I hope to greatly impact the Nazareth community and educate our students, faculty, and staff on what we can do to improve the awareness of sexual assault.

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### **Abdelmounim Ait Hammou (#508)**

**Title:** Study Abroad Outcomes (Personal Growth- Intercultural Competence and Career Attainment)

**Faculty Sponsor:** Professor Diane Enerson, Psychology

**Abstract:** This research project centers around the impact of study abroad on students' personal growth, cultural competence and career prospects after graduation. I did a meta-analysis this topic; where I investigated 12 peer-reviewed articles that tackle these three outcomes. I analyzed the findings of the literature, and categorized them into three main categories where study abroad students benefit the most, and these variables are increased personal growth, expanded intercultural competence and better prospects for career attainment as a result of study abroad experience. There are different reasons why I investigated this subject; first, as a future practitioner in higher education, I plan to work in international education, and this interest stemmed from me being an international student at Nazareth College. My internship as a study abroad intern at SUNY Geneseo college has given me more insights and hands-on experience to learn and apply my skills in international education later in my career.

**Motivation for Participating:** Course requirement, HESAA 590: CAPSTONE PROJECT

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### **Jordan Hill (#509)**

**Title:** Implementing Goal Setting and Strategies to Teach Motivation in the Kindergarten Classroom

**Faculty Sponsor:** Professor Kerry Dunn, School of Education

**Abstract:** As a Clinical Assistant, I am completing a teacher research project in a general education kindergarten classroom where pandemic restrictions are currently in place. I work with six students twice a week, on predetermined and co-chosen goals related to Literacy, Mathematics, and Social-Emotional Learning. I have been researching the effectiveness of implementing goal setting and strategies to teach

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motivation. The purpose of this research is to assist students in their journey to attain grade-level status in academics and acquire developmentally appropriate self-regulation skills through motivational methods. I am developing data systems in order to track and analyze the progress of the students and their goal achievement. At this point in my research, I am hoping to determine how implementing goal-setting impacts the acquisition of learner's academic and developmental social and emotional skills, in addition to informally evaluating the effect it has on student motivation.

**Motivation for Participating:** As an educator, goal setting is an area where I have significant interest. I hope to gain and discuss more information on ways to effectively teach goals setting to early learners in a way that will stay with them through their educational journey. I also hope to share with others the role teacher-student relationships have on the achievement of goals. I hope my research inspires other educators to begin implementing goal-setting into their practice through similar methods.

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### **Samantha Jansen (#510)**

**Title:** The Correlation Between Engagement and Assessment Scores: Why We Need In-Person Learning

**Faculty Sponsor:** Professor Kerry Dunn, Education

**Abstract:** As a clinical assistant, I am working virtually two days a week in an urban school. I am researching and analyzing the correlation between students' engagement levels and their assessment scores. In collaboration with the reading teacher, students are given lessons created for each of the ELA standards. At the end of each lesson, students complete an exit ticket which is what I use to analyze their understanding of the learning target. Students' attendance and engagement in online and hybrid settings is also being recorded. This project is designed to show the importance of in-person learning. At this point in the data collecting process, there is evidence that suggests that students' engagement levels and assessment scores are positively impacted by the switch from online to hybrid learning.

**Motivation for Participating:** I hope to gain insight on the importance of engagement in student learning and gain experience in presenting my work.

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### **Margaret Keefer (#511)**

**Title:** Are Undeclared Students Graduating on Time

**Faculty Sponsor:** Professor Diane Enerson, Psychology and HESAA

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**Abstract:** This is my HESAA graduate program capstone project. I'm looking at graduation and retention rates for students that enter college undeclared. I looked at data from Nazareth College on the student population from the years 2012-2019. I chose to explore this topic because of my own experience as an undergraduate student. I wish I had gone in undeclared but felt pressure to choose a major.

**Motivation for Participating:** Course requirement, HESAA 590

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### **Maelah Nadeau, Lydia O'Sullivan, Tessa Miller, Sydney Fina (#512)**

**Title:** The Process of Co-Delivered Integrative Music and Speech Therapy Through Telehealth

**Faculty Sponsor:** Professors Heather Coles and Laurie Keough, Speech-Language Pathology and Music Therapy Departments

**Abstract:** The purpose of this project was to investigate effective strategies utilized by student clinicians to provide co-delivered integrative music and speech treatment by teletherapy. Students clinicians' interprofessional attitudes, beliefs, and competencies were explored during both the planning and implementation of therapeutic interventions. The project recognized student clinicians' collaborative strategies, tips for success, and overall challenges related to delivering treatment via tele-therapy with adults who have an acquired neurogenic communication disorder.

**Motivation for Participating:** We hope to gain a more comprehensive understanding of co-delivered integrative music and speech treatment by tele-therapy and what makes an inter-professional team successful.

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### **Sharon Redondo Polo, Damaris Reinoso, Nancy Garcia (#513)**

**Title:** Amigos de Jesus

**Faculty Sponsor:** Professor Tania Giorgis, Communication Sciences and Disorders

**Abstract:** Amigos de Jesús (ADJ) is a home for vulnerable children in rural Honduras that offers shelter (housing, food, clothing), education, and a loving and safe environment. Located on-site, the Amigos de Jesus Bilingual School provides quality bilingual education in Spanish and English to children from preschool through junior high school. In the 2020-2021 academic year, with guidance from faculty in the Department of Communication Sciences and Disorders (CSD), bilingual CSD student clinicians offered weekly telehealth speech-language therapy services through Zoom to children with significant unmet communication needs. They developed lesson plans and activities, provided direct services, and worked in collaboration with the onsite school

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psychologist to encourage carryover. Established from a service-learning mindset, this collaboration was beneficial to both parties. ADJ students received individualized services that were not available locally, and bilingual CSD students gained meaningful experience working with Spanish-speaking/bilingual children with speech-language needs.

**Motivation for Participating:** By presenting at CARS, we would like to build awareness of this new collaboration between Nazareth College and Amigos de Jesus in Honduras. We would like to share this experience with our community in order to promote opportunities to serve and support people from different cultural backgrounds and disadvantaged communities.

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### Alexis Ziobro (#514)

**Title:** Teaching Readers to Use Background Knowledge to Enhance Comprehension

**Faculty Sponsor:** Professor Kerry Dunn, School of Education

**Abstract:** As a Clinical Assistant, my research is based in a sixth-grade reading classroom within a suburban middle school. I have been researching the effectiveness of academic content and vocabulary interventions to build and activate students' background knowledge before reading a text. The purpose of these interventions is to enhance the readers' ability to comprehend a given text. Because my school follows current pandemic restrictions, I work with students in person either once or twice a week. The interventions and instructional strategies that I implement for this research vary between whole group, small group, and individual settings. At this point in my ongoing project, I continue to use a mixture of formal and informal assessments to gather data that measures how extensive background knowledge can enhance a student's reading comprehension before, during, and after reading.

**Motivation for Participating:** I hope to gain a deeper understanding of the literacy education field and to share my research with others interested in education.

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# RESEARCH ROCKS.

Thank you to everyone who submitted and participated!



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