**Presentations, Quest 2023, SUNY-Oswego**

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| **Place** | **Time** | **Link** | **Dept** | **Presenters** | **Mentor** | **Title** | **Abstract** |
| 132 Marano Auditorium | 9 AM- 10 AM |   | **Anthropology** | Cali, Amanda | Ossa, Alanna | Reconstructing Victorian Culture and Values Through Artifact Analysis | This research reconstructs aspects of Victorian culture and values through an analysis of a 19th-century private artifact collection. Specifically, I investigate the cultural, personal, social, and economic relationships between Victorians and their collections and then apply this data to illustrate Victorian values and reconstruct aspects of Victorian culture. |
| 132 Marano Auditorium | 9 AM- 10 AM |   | **Anthropology** | Cohen, Jordan | Ossa, Alanna & Velez, Alex | The Missing Molars | How can the disappearance of third molars in homo-sapiens be explained? To answer this question, I will be examining hominid skulls and researching the environment in which they were found. It is assumed that third molars in Homo sapiens are not necessary for survival and will disappear in the future. |
| 132 Marano Auditorium | 9 AM- 10 AM |   | **Anthropology** | Conklin, Nerissa | Ossa, Alanna | Community Archaeology in Oswego, NY  | My research is an experimental approach to community-based archaeology that is dependent upon the Oswego community to provide data for analysis, which will be objects that residents have discovered on their property. The data analysis will provide further insights into the historic social and economic organization of Oswego, NY, and contribute missing information to the archaeological record. |
| 132 Marano Auditorium | 9 AM- 10 AM |   | **Anthropology** | Cummings, Autumn | Peters, Rebecca | Policy as a Cultural Artifact: An Examination of State History Curriculum | A comparative look at the history curriculums of K-12 in NY and Virgina provide rich data for understanding what is present and what is left out concerning Native American history and perspectives. |
| 132 Marano Auditorium | 9 AM- 10 AM |   | **Anthropology** | Gutierrez, Osmara | Ossa, Alanna | Depression Amongst Dominican and Italian Women | I will be discussing cultural and other factors that tend to be barriers when seeking help for depression in women of Dominican and Italian cultural backgrounds. I will explain the impact these barriers have as they are being passed down generationally in each culture, as well as the severity of the consequences of these barriers. |
| 132 Marano Auditorium | 10 AM- 11 AM |   | **Anthropology** | Joshi, Kaushal  | Ossa, Alanna | Colorism and its effects on people of South Asian descent: how have skincare and beauty products changed the way people view “light skin v/s dark skin” | Recently, there has been a hot debate within the South Asian community regarding discrimination on the basis of skin tone after a popular beauty product “Fair & Lovely” changed its name to “Glow & Lovely”. I will be studying more about some of the most popular skincare products used in parts of South Asia that claim to provide “skin-lightening” care and interview people of South Asian descent, especially from parts of Nepal and India to also gain a more personal perspective regarding their experiences with colorism and use of such beauty products. |
| 132 Marano Auditorium | 10 AM- 11 AM |   | **Anthropology** | Maggard, Grace | Ossa, Alanna | Colonization and Language: A Case Study Analysis of the French Colonization of Haiti and Its Ongoing Sociolinguistic Effects | How does colonization effect language use? That indigenous languages decline in usage following colonization is a well documented phenomenon, but what of the sociolinguistic and socioeconomic effects of colonization on a now deconlonized nation? This project aims to investigate the ongoing sociolinguistic and socioeconomic factors present in the bifurcation of Haitian society which have resulted not only from the past French colonization of the region, but also from the present-day class divide between French speaking and Haitian Creole speaking populations. |
| 132 Marano Auditorium | 10 AM- 11 AM |   | **Anthropology** | Morgan, Leondra  | Ossa, Alanna | "It's just hair" | This project will look at and discuss natural hair and if and why those with natural hair view their hair, regimes, and styles has more of a deeper significance than those without natural hair. Natural hair is a term used to describe kinky, curly, curly hair texture that predominantly black women have.  |
| 132 Marano Auditorium | 10 AM- 11 AM |   | **Anthropology** | Pierce, Wolfgang S. | Ossa, Alanna | How Covid Changed American Social Lives | Analyzing specifically how feelings of isolation have been impacted, what social interactions are and are not important in individuals' construction of their social sphere, and if any interactions have been shifted online because of Covid-19 and decreased in social quality as a result is critical for understanding socialization after lockdowns. A decreased quality is indicated by lower social and emotional investment. While these questions are open ended, their answers will create a model to understand if and how these shifts have manifested in recent years while also drafting a stronger image of how social interactions occur after Covid-19 and if people conceive of online vs in person interactions differently because of this shift. |
| 132 Marano Auditorium | 10 AM- 11 AM |   | **Anthropology** | Pullen, Jessica  | Ossa, Alanna | The Biggest Decision: The Decision-Making Process of Having Kids and the Generational Gaps Within the Process | There are 7.8 billion people in the world today, but the population growth rate is declining. To determine how this decline will affect us, we must first examine what is causing it. Through background research and conducting my own research by interviewing 10 different people, I hope to uncover more about why people choose to have kids or choose to remain childless.  |
| 132 Marano Auditorium | 11 AM- noon |   | **Anthropology** | Quimby, Kaleigh  | Ossa, Alanna | Colonization, Dictatorships and Insufficiant Funds: A Case Study on the Structual Violence in Somalia | In western media, the African country, Somalia is often depicted as dsyfunctional, poor and violent. Often this discussion is based around the presumption that the Somali people are inherently violent and that clan violence is the major issue centered in Somalia. This paper argues that there are political and economic reasons for this violence, dating back to when the continent of Africa expereienced massive colonization.  |
| 132 Marano Auditorium | 11 AM- noon |   | **Anthropology** | Waldruff, Emily | Ossa, Alanna | Women in Public Spaces: Safety and Solidarity | What is it that unites women? What is it that makes women assess and choose their company in a public space and what are the factors that go into this assessment? The goal of this project is to examine the social factors that bind women and to use this information to make public spaces feel safer to the women who inhabit them. |
| 132 Marano Auditorium | 11 AM- noon |   | **Anthropology** | Weaver, Courtney | Ossa, Alanna | What is Your Name? Why is Your Name?: Child-naming in Central New York  | This research aims to understand the reasoning behind the choice of child names and describe the generational aspects of this process. Names are highly individualized, but deeply embedded in social and cultural contexts of identity formation within the United States. This research will enable me to gain basic descriptive information about the processes by which parents consider name choices for their children and identify key similarities and differences based upon generations and regions. |
| 133 Marano | 9 AM- 9:30 AM |   | **Art** | Egan, Genevieve; Cantu, Antonia; Barrios, Aruasy; Blake, Blake; Meyer, Brandan | Yang, Renqian | How We Made It -NCECA 2023! | A presentation on the fundraising efforts used to help Clay Club members attend the 57th Annual National Council on Education for the Ceramic Arts Conference. Also a discussion on their experiences at the conference and exhibiting handmade mugs there. |
| 133 Marano | 9:30 AM-11AM |   | **Art** | Allen, Selena; Bean, Suzan; Chabot, Sydney; Cwikla, Paul; Gromoske, Cydney; Gulotta, Kaitlyn; Hartman-Souder, Gregory; Hill, Katherine; Kitchener, Kayla; Lee, Carissa; Marx, Caitlin; Maselli, Julianne; McCain, Tessa; McCollough, Erin; Patton, Alexandra; Smith, Miranda; Weaver, Chapel; White, Kelsey | Entner, Benjamin | Creative Research in the Visual Arts | Students from ART 496: Studio Practicum will present on their creative research using a using a modified Pecha Kucha format. In this case, each presentation will be just 10 slides and 3 minutes, 20 seconds long. |
| 172 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/92647229564 | **Atmospheric and Geological Sciences** | Steiger, Scott |   | The Good, the Bad, and the Not-so-cute of the 2022-23 Lake-Effect Electrification Field Campaign | The National Science Foundation (NSF)-sponsored Lake-Effect Electrification (LEE) field campaign occurred between November and early February 2022-23 across the eastern Lake Ontario region. Project LEE’s goals include to document, for the first time, the total lightning and electrical charge structures of lake-effect storms and the associated storm environment. |
| 172 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/92647229564 | **Atmospheric and Geological Sciences** | Statum, Garrett | Wang, Yonggang | Trends and Variability of Cold-Season Tornadoes in the Contiguous United States, 1950-2021 | Cold-season tornadoes impact a large part of the United States. This study identifies trends in the spatial distribution, strength, and frequency of cold-season tornadoes from 1950-2021 using the Storm Prediction Center's tornado database. A statistical analysis of the relationships between tornado cases and oceanic oscillations is also provided. |
| 172 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/92647229564 | **Atmospheric and Geological Sciences** | Dickerson, Connor | Wang, Yonggang | Investigation of the 29-30 November 2022 Tornado Outbreak | This study takes a deep dive into what the models were predicting prior to the event by using the Weather Research and Forecasting (WRF) model. Comparisons and analysis of the model simulation and observed data that was collected during and after the event is then used to form conclusions about how and why this event played out differently than forecasted. |
| 172 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/92647229564 | **Atmospheric and Geological Sciences** | Kelly, Daniel | Wang, Yonggang | Examining Mid-latitude Cyclones Over North America Amidst a Changing Climate | Mid-Latitude cyclones are large-scale low pressure systems that travel great distances while providing continuous precipitation and impactful conditions to populated areas. By evaluating a retrospective climate simulation's ability to reproduce storm track, intensity, and other adverse weather phenomena, a deeper understanding of mid-latitude cyclones within a volatile climate is achieved.  |
| 122 Shineman | 9 AM- 10:15 AM |   | **Biological Sciences** | Konrad, Annie; Sweeney, Joseph; Paz, Tiffany-Amber | Olori, Jennifer | Comparing Skull Roof Compactness and Thickness in Salamanders and Frogs to Investigate Relationships with Ecology | Vertebrate skulls vary in compactness and thickness depending on their environment. Burrowing species are hypothesized to have more compact skulls than aquatic or arboreal species. We isolated skull roof bones from CT scans of frogs and salamanders using 3D Slicer before analyzing the skull roof volume and compactness using Fiji. |
| 122 Shineman | 9 AM- 10:15 AM |   | **Biological Sciences** | Gembala, John | Olori, Jennifer | VERTEBRAL FOSSILS OF THE SQUAMATES OF CATHEDRAL CAVE, NEVADA | The Cathedral Cave is a relatively young cave site that has a wide variety of tetrapod fossils. The fossils from mammals and birds have been found at other sites indicating that they underwent a migration event at some point. Likely, the squamates did not experience similar events based on the cave fossils and extant species.  |
| 122 Shineman | 9 AM- 10:15 AM |   | **Biological Sciences** | Regner, Amanda | Sime, Karen | Distribution range of invasive wood wasp Sirex noctilio from Oswego, NY to Rochester, NY | Sirex noctilio, an invasive species of woodwasp, was accidentally introduced to North America in 2004. Monitoring surveys were conducted every 1-2 years. However, after 2010, no further systematic surveys were conducted. In 2022, I surveyed trees at and between Oswego and Rochester to assess the current distribution of S. noctilio.  |
| 122 Shineman | 9 AM- 10:15 AM |   | **Biological Sciences** | Ross, Danielle | Newell,Peter | Can niche partitioning promote coexistence between Drosophila gut microbes with different nitrogen utilization abilities? | The microbiota of the Drosophila melanogaster, or fruit fly, includes Acetobacter species. These microbes can obtain nitrogen from various intermediates in the purine salvage pathway. We tested whether Acetobacter species with non-overlapping intermediate utilization abilities can coexist via niche partitioning when multiple nitrogen sources are available. |
| 122 Shineman | 9 AM- 10:15 AM |   | **Biological Sciences** | Tarallo, Valeriia | Artemenko, Yulia | Investigation into the Role of Glycocalyx in Cell Adhesion and Movement of Dictyostelium discoideum | We hypothesize that the glycocalyx (the sugar coating of the cells) is involved in cell adhesion and migration in Dictyostelium discoideum. We found decreases in cell adhesion following disruption of the glycocalyx by removal of mannose residues, but the effects of competition with free mannose varied with cell growth conditions. |
| 122 Shineman | 10:45 AM- noon |   | **Biological Sciences** | Caruana, Tristan | Sard, Nick | Limit of detection for synthetic Ranavirus positive control; How low can it go? | "Ranaviruses (Rv) infections contribute to declines in many amphibian populations globally. We sought to estimate the limit of detection for a synthetic Rv positive control using two polymerase chain reaction methods. Results suggest the current assay detects Rv target DNA at 100,000 copies per microliter. " |
| 122 Shineman | 10:45 AM- noon |   | **Biological Sciences** | Hernandez, Sonia | Sard, Nick | Detecting Ranavirus variants infecting amphibians in Oswego County  | A decade-long study of amphibians at Rice Creek Field Station has allowed for Ranavirosis (Rv), a contributor to the global amphibian declines, to be surveyed. The Rv assay used is only genera-specific. However, melt curve analysis and Sanger sequencing may provide more insight into species-specific infection rates among Rv variants. |
| 122 Shineman | 10:45 AM- noon |   | **Biological Sciences** | Rentof, John-Kaarli | Sard, Nick |  Detecting Gray Treefrogs at Rice Creek Field Station via environmental DNA sampling  | "Environmental DNA (eDNA) is a useful tool for ecologists to monitor cryptic species. Naturally, treefrogs spend less time in bodies of water than other amphibians. Sampling eDNA during the Treefrog breeding season and/or in water-filled tree holes, which they tend to use as daily refuge, could improve detection rates." |
| 122 Shineman | 10:45 AM- noon |   | **Biological Sciences** | Goodman, Brooke | Baldassarre, Dan | Song performance as a predictor of body condition and plumage color in Northern Cardinals | Birds use their song to communicate with rivals and potential mates. Bird song can be an honest signal of physical characteristics. I recorded eight Northern Cardinals at Rice Creek singing a shared song type and evaluated if song attributes predicted body condition, and if song attributes covaried with plumage color.  |
| 122 Shineman | 10:45 AM- noon |   | **Biological Sciences** | Hernandez, Sonia | Baldassarre, Dan; McElwain, Andrew; Sard, Nick | Effects of avian malaria on plumage and body condition in rural and urban Northern Cardinals | Avian malaria is a widespread vector-borne disease caused by haemosporidian parasites including Plasmodium, Haemoproteus, and Leucocytozoon. Using blood smears, twelve of twenty-two samples were detected to be positive for these parasites. Future work will explore associations with plumage color and body conditions. |
| 175 Shineman | 9 AM- 10 AM |   | **Chemistry** | Seymour, Mary | Mirjafari, Arsalan | Sulfonyl Fluoride Ionic Liquids for Vaccine Preservation  | Vaccine platforms are thermally unstable and must be kept at very cold, often sub-zero temperatures. Current technology for the storage and transportation of life-saving vaccines is flawed and could lead to the distribution of ineffective vaccines. This project investigates sulfonyl fluoride-based ionic liquid formulations to improve thermal stability of known vaccines. |
| 175 Shineman | 9 AM- 10 AM |   | **Chemistry** | Musozoda, Muhammadiqboli | Mirjafari, Arsalan | Cocrystallization of Long Chain Alkyl Halides with 2-mercaptothiazolium-based Ionic Liquids | The cocrystallization of long chain bromoalkanes was assisted by lipid-like 2-mercaptothiazolium-based ionic liquids, and the structures were determined by single crystal X-ray diffraction. Stoichiometry of both salt and alkyl halides are same, and their compositions are stable at ambient temperature. To improve the system, various experiments are currently being conducted. |
| 175 Shineman | 9 AM- 10 AM |   | **Chemistry** |  Tovey, Liam; Simpson, Jonathan  | Haddadi, Shokouh  | Determination of Diphenhydramine in Biological Samples using Dispersive Liquid-Liquid Microextraction (DLLME) and Gas Chromatography | Diphenhydramine, active ingredient in Benadryl, is considered a date rape drug. Determination of low concentrations of the drug and its metabolites in biological samples is significant. A dispersive liquid-liquid microextraction method was used to extract diphenhydramine from artificial urine before analysis by gas chromatography. Concentrations at parts-per-billion level were quantified.  |
| 175 Shineman | 10 AM- 11 AM |   | **Chemistry** | Mitchell, Raven | Koeppe, Julia | Using Python in Enzyme Kinetics  | As science progresses into a more digital age, we begin to see how much computer science has integrated itself into STEM areas such as chemistry and biochemistry. My capstone project is focused on how coding can help manage routine tasks in kinetic data analysis for enzyme research. |
| 175 Shineman | 10 AM- 11 AM |   | **Chemistry** | Barry, Ismatou  | Bendinskas, Kestas | Hair and Nail Cortisol Are Associated  | Hair and nail cortisol are biomarkers used to assess long-term stress responses in humans and animals. These biomarkers have shown promise in medicine, psychology, and environmental studies. Our data demonstrate that hair and nail cortisol are weekly associated in most of our study subjects; however, the associations are strong if samples from subjects with high cortisol concentrations are included. |
| 175 Shineman | 10 AM- 11 AM |   | **Chemistry** | Cleland, Marcus | Niri, Vadoud | Effects of Phenolic Compound Concentrations on the Winter Foraging of Birds on Staghorn Sumac (Rhus Typhina)  | To determine if variation in foraging on Sumac by birds was influenced by concentration of the phenolic compounds, they were analyzed in the seeds collected from November to March using extraction and HPLC methods. The results showed the decrease in the levels of phenolic compounds and the increase of foraging.  |
| 174 Shineman | 3 PM- 4 PM | <https://oswego-edu.zoom.us/j/95317617157> | **Computer Science** | Garbonzo, Omar | Schlegel, Daniel | Simulation as Part of Structured Design | Simulating robotic arms is a crucial aspect of their design and development, as it allows engineers to test and refine the performance and behavior of robotic arms before building and testing a physical prototype. This project is to encourage people to realize the advantages provided by simulation in many processes. |
| 174 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Gray, Kayla | Schlegel, Daniel | The Singularity Symphony | This project is an exploratory study on algorithmic composition in the context of the ongoing debate regarding artificial intelligence and the singularity. This project provides insight and use case analyses on several algorithmic composition techniques: rule-based systems, constraint-based systems, Markov chains, genetic algorithms, grammars, neural networks, and generative adversarial networks.  |
| 174 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Lockwood, Victor | Graci, Craig | “I’m Sorry Dave, I’m Afraid I Can’t Do That” - Exploring When AI Should Lie | Inspired by the events of 2001: A Space Odyssey where catastrophe strikes and people die due to decisions made rooted in an inability for an AI to lie or withhold information, this project involves creating a microworld system which determines whether or not it will divulge or distort information. |
| 174 Shineman | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Wingard, Ezra | Lindstedt, John | The Impact of Bias in Facial Recognition Neural Networks | In facial recognition neural networks, it has been shown that there are many ways that biases/prejudices can negatively affect their accuracy. Two pre-trained neural networks were fed two self-made datasets, and outputs from the datasets were analyzed to determine what biases can be detected from the models used.  |
| 174 Shineman | 4 PM -5 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Altamura, Dominic | Wilcox, Elizabeth | The Art of Making Computational Symbolic DIfferentiation & Integration Approachable | Many symbolic differentiation and integration programs exit but the few open-source programs are very abstract and difficult to understand. For my honors thesis, I developed an open-source application, emphasizing understandable and approachable code. I will discuss the development of this application, focusing on the parsing and integration algorithms. |
| 174 Shineman | 4 PM -5 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Dappe, Andjela; Altamura, Dominic; Kuntz, James; Weeks, Scarlett; Hoffman, Jake | Tenbergen, Bastian | Building Software Not-From-Scatch: The Tale of A Tool to Facilitate Peer Assessment | In this project, the authors are pioneering issue tracking, requirements elicitation, quality assurance, and development of new features in close collaboration with stakeholders from IBM. The example system is a tool that facilitates Calibrated Peer Review as a peer assessment technique for higher education. |
| 174 Shineman | 4 PM -5 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Umang Patel; Sven Kappeler | Pantaleev, Alex | PriceVision - Machine Learning Stock Prediction | PriceVision uses LSTM and Flask API to predict stock prices for 10 companies, achieving a fine prediction. The data is then used in a React app to display stock price graphs, aiding users in making investment decisions |
| 174 Shineman | 4 PM -5 PM | https://oswego-edu.zoom.us/j/95317617157 | **Computer Science** | Yannelli, Kyle | Pantaleev, Alex | Basik - Guitar Amplifier & Pedalboard Simulator | Basik is a GUI amp simulator for both clean and high gain territories for the guitar community. Users can add delay, distortion, reverb, or chorus, in a similar structure to a pedalboard. In addition, information about effects artists have used is readily available through the GUI. |
| 114 Marano | 10 AM- 11 AM |   | **Creative Writing Program** | Laura Donnelly |   | Creative Writing Awards |   |
| 114 Marano | 11 AM- noon |   | **Creative Writing Program** | Laura Donnelly |   | Creative Writing Awards |   |
| 225 Marano | 9 AM- 9:40 AM | https://oswego-edu.zoom.us/j/96192998694 | **Curriculum & Instruction** | Liu, Yan | Yang, Harrison | Tailored Learning: Personalized Intelligent Tutoring for Cultivating Problem-Solving Skills | Unlike the current intelligent tutoring systems that prioritize knowledge acquisition and memorization, this study proposes a problem-driven approach that prioritizes the development of learners' problem-solving abilities. |
| 225 Marano | 9:45 AM- 10:25 AM | https://oswego-edu.zoom.us/j/96192998694 | **Curriculum & Instruction** | Wang, Xuejun | Yang, Harrison | Smart Campus Development: A Case Study of M Middle School in Wuhan | This study analyzes the smart campus development and application at M middle school in Wuhan, China. It involved online questionnaires and face-to-face in-person interviews in understanding the status and identifying successes and shortcomings. Based on the findings, the paper provides thoughts and suggestions for improving future smart campus development. |
| 225 Marano | 10:30 AM- 11:10 AM | https://oswego-edu.zoom.us/j/96192998694 | **Curriculum & Instruction** | Jiang, Li | Yang, Harrison | Integrating Industry and Education in Engineering Education in China: Exploring a New Practice Environment | The study proposes a new type of engineering education practice environment, which uses school-enterprise co-construction. The focus is on solving three problems: building a comprehensive practical learning process, information-sharing platform, and optimizing the learning environment using educational technology. The study proposes two engineering methods: the design process and system engineering. |
| 225 Marano | 11:15 AM- 11:55 AM | https://oswego-edu.zoom.us/j/96192998694 | **Curriculum & Instruction** | Frederick, Alfred - Distinguished Service Professor |   | The impact of the Eurocentric Male-defined Curriculum on the Self-Image, Self-esteem, and Academic Achievement of Culturally Diverse Student Populations: A Case for Culturally Responsive Pedagogy. |   |
| 225 Marano | 3 PM- 4 PM | https://oswego-edu.zoom.us/j/96192998694 | **Curriculum & Instruction** | Jones, Jacquelyn | Fleming, Sarah | Bridging the Gap with Connection Curation |   |
| 194 Shineman | 10-11AM |   | **Economics** | Meltser, Samuel | Atri, Said | Inflation, Labor Markets, and Monetary Policy  | This work discusses recent developments in the labor market, interest rates, money supply, and inflation and how these interact to shape the economy and its future. By understanding these factors, their interactions, and their potential effects, we can better prepare for and address future episodes of economic disruption.  |
| 194 Shineman | 10-11AM |   | **Economics** | Patterson, Ashley | Paraschiv, Mihai | Brief Analysis of Minimum Wages and Employment in the State of Illinois | This paper investigates how minimum wage increases affect specific labor markets (i.e., fast food cooks and chief executives) to further understand how such changes affect the overall labor market. The paper finds that there is a link between minimum wage increases and increases in unemployment for low wage occupations.  |
| 194 Shineman | 10-11AM |   | **Economics** | Reiter, Adam  | Paraschiv, Mihai | An Inquiry into Minimum Wage and Employment  | This paper is an inquiry into the connection between minimum wage and employment. It is found that occupations that require more specialization are less impacted from a change in minimum wage compared to those that require less skill. So, the impact of minimum wage is market specific.  |
| 174 Shineman | 9 AM- 10 AM |   | **Electrical and Computer Engineering** | Staerker, Gavin; Kinderman, Jacob; | Bkassiny, Mario; | Wireless Power Transfer: A Study in Patch Antenna Design | The following senior design project aims to create a WPT system utilizing a microstrip patch antenna for short-range power transfer. Through current work, we have simulated, designed, and fabricated a microstrip patch antenna capable of acceptable omnidirectional power transfer in multiple frequency bands. |
| 174 Shineman | 9 AM- 10 AM |   | **Electrical and Computer Engineering** | Delfino, Alexandria; Prevosto, Dominic; | Ayad, Mustafa; | BetterBrew | This capstone project aims to develop a smart coffee machine that utilizes multiple sensors to brew coffee using coffee grounds instead of K-Cups. The proposed solution intends to offer a more sustainable, customizable, and cost-effective alternative to single-serve coffee machines. |
| 174 Shineman | 9 AM- 10 AM |   | **Electrical and Computer Engineering** | Rogers, Dante; Ambrose, Joshua; Ayash, Rana; | Ieta, Adrian | Ionic Thruster Using High Voltage Power Supply | A brief introduction on the phenomenon of Ionic wind, its nature, creation, and potential application. Followed by an explanation of our project. An Ionic Thruster powered by a lightweight high voltage power supply with the goal of generating enough force for flight. |
| 174 Shineman | 10 AM- 11 AM |   | **Electrical and Computer Engineering** | Van Meter, Evan; Scheer, Noah; | Zhang, Hui; | Pedal Power Charging Station | A pedal power system is designed to charge a 12V battery and a small device. The powergenerated can be measured and displayed using a LED display. The power can be seen as the light bulbs illuminate. |
| 174 Shineman | 10 AM- 11 AM |   | **Electrical and Computer Engineering** | Kilgen; Michael; Mooney, Brett; | Ayad, Mustafa; | Smart Bottle | Most people are unaware of the extensive list containing the benefits of staying hydrated throughout the day. The SMART Bottle is designed to improve your physical wellbeing and mental performance. By connecting wirelessly to your phone, SMART bottle will keep its user healthy from dawn to dusk. |
| 211 Marano | 9 AM- 10 AM | <https://oswego-edu.zoom.us/j/3752191999?pwd=ZWVmWldZVDlJVGczRldUZFM1MnM3UT09> | **EXCEL** | Shaulys, Jenna; Murphy, Sarah; Pievskaya, Esfir | Milligan, Sean; Joyce, Jennifer | Focus Forward: A Forum On Youth Mentoring | A Service Learning "Experience You Can Earn Credit For" Focus Forward Mentors (SUNY Oswego students) provide academic tutoring and social support to district-identified "opportunity" students (Mentees) through personalized one-to-one or one-to-two relationships. Mentors help mentees develop effective study habits and interpersonal skills for school and life success. Focus Forward Team Leaders will answer questions about mentor-mentee relationships, impact on the Oswego County community and valuable professional skills they have gained.  |
| 211 Marano | 10 AM- 11 AM | https://oswego-edu.zoom.us/j/95918549474 | **EXCEL** | Owen, Aiden; Anderson, Clyde;Shojaei, Fatemehalsadat;Roelle, Kevin | Cooper, Tina | Experiential Learning: Lakers in Action! | Come learn more about gaining experience through SUNY Oswego! In this session, you will hear directly from students who have participated in internships, co-ops, and service-learning opportunities and how they have built their skills, connections, and resumes while doing so. |
| 211 Marano | 11 AM- noon | https://oswego-edu.zoom.us/j/95918549474 | **EXCEL** | Owen, Aiden; Anderson, Clyde;Shojaei, Fatemehalsadat;Roelle, Kevin | Cooper, Tina | Experiential Learning: Lakers in Action! | Come learn more about gaining experience through SUNY Oswego! In this session, you will hear directly from students who have participated in internships, co-ops, and service-learning opportunities and how they have built their skills, connections, and resumes while doing so. |
| 211 Marano | 3 PM - 4PM | <https://oswego-edu.zoom.us/j/3752191999?pwd=ZWVmWldZVDlJVGczRldUZFM1MnM3UT09> | **EXCEL** | Storms, Luke; Seegers, Maegan; McCormick, Hannah; Alex, Abigail | Milligan, Sean; Joyce, Jennifer | Focus Forward: A Forum On Youth Mentoring | A Service Learning "Experience You Can Earn Credit For" Focus Forward Mentors (SUNY Oswego students) provide academic tutoring and social support to district-identified "opportunity" students (Mentees) through personalized one-to-one or one-to-two relationships. Mentors help mentees develop effective study habits and interpersonal skills for school and life success. Focus Forward Team Leaders will answer questions about mentor-mentee relationships, impact on the Oswego County community and valuable professional skills they have gained.  |
| 242 Marano | 10 AM- 11 AM |   | **French Honor Society** |   |   | French Forum |   |
| 242 Marano | 9 AM- 10 AM |   | **French Honor Society & Spanish Honor Society** |   |   | French Honor Society & Spanish Honor Society Induction Ceremonies |   |
| 232 Marano | 3 PM- 4 PM | <https://oswego-edu.zoom.us/j/97355254853?pwd=SStyN2t0ZFhQQWZmNndoZG9jNVk3UT09> | **Gender and Women's Studies** | St. Hilaire, Ariana | Goplen, Joanna & Rank, Allison (if possible to have two) | Depictions of Sexism & Misogyny in The Handmaid’s Tale | In this talk, I will apply theories of sexism and misogyny to different characters from Hulu’s television series, The Handmaid’s Tale using definitions from feminist philosopher Kate Manne’s book, Down Girl: The Logic of Misogyny. |
| 194 Shineman | 9 AM- 10 AM | <https://oswego-edu.zoom.us/j/97995221614> | **Health & Wellness** | Middlemiss, Abigail; Vodzogbe, Micheal-Daniel | Bidwell, Amy Dr; Friedman, Barry Dr | Don't Worry, Be Happy Using This Simple Model | College life can be stressful and challenging, but the PERMA theory of well-being offers a path to greater well-being. By focusing on these five elements, you can cultivate a sense of purpose and fulfillment. For instance, seeking out positive experiences, engaging in challenging activities, building strong relationships with friends and mentors, finding meaning in your studies and pursuits, and achieving meaningful goals. By using the PERMA model, you can create a fulfilling college experience both academically and personally. |
| 232 Marano | 9 AM- 10 AM |   | **History** | Monaco, Nick | Dr. Courtney Doucette  | How the United States Strategic Bombing Survey shaped Twentieth-Century Air Force Doctrine |   |
| 232 Marano | 9 AM- 10 AM |   | **History** | Escobar, Sophia | Dr. Courtney Doucette | Christine de Pizan and the Question of Women's Agency in the Middle Ages |   |
| 232 Marano | 9 AM- 10 AM |   | **History** | Cox, Quinnlyn  | Dr. Chris Mack | Early Christianity and Women |   |
| 232 Marano | 10-11AM |   | **History** | Lewis, Latrell | Dr. Gwen Kay | The 147th Regiment |   |
| 232 Marano | 10-11AM |   | **History** | Riley, John | Dr. Gwen Kay | Abuse of the People: A history of two violent conflicts |   |
| **132 Marano Auditorium** | **1 PM- 2 PM** | [**https://oswego-edu.zoom.us/j/7458380143**](https://oswego-edu.zoom.us/j/7458380143) | **Keynote Address** | **Allan Shaw `86 (CFO of Portage Biotech, Inc.)** |  | **How to Approach Healthcare with a Business Mindset?** |   |
| 174 Shineman | 11 AM- noon | <https://oswego-edu.zoom.us/j/96191088958?pwd=QkxaU1U0cWZzZUlHanlpbCt4UDRsdz09> | **Linguistics** | Crawford, Christopher; Kennedy, Farryn; White, Samantha | Miller, Taylor | Kiowa Winter-Telling Stories: Tricksters, Origins, and Linguistic Analysis | The Endangered Languages Lab will discuss an ongoing project to transcribe and analyze traditional Kiowa stories as told by Ernest "Iron" Toppah in 2016. The presentation will focus on the methodology used for morpho-phonological analysis, conversion between four writing systems, and using the analysis in a forthcoming pilot dictionary. |
| 172 Shineman | 9 AM- 10 AM | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Alam; Rashedul | Nanthakumar Ampalavanar | Copula-Based Analysis of Bangladesh Economic Data | We collected the economic data relevant to Bangladesh Economy such as GDP, Inflation Rate, and Unemployment Rate for the period from 1991 to 2021. The purpose was to identify the best Copula model that explains the covariance structure among these three variables. In this case, we tried the Archimedean Copulas such as Clayton, Gumbel, and Frank in a two way and three way setup. We plan on extending our work to the Gaussian Copula too. Our results will be presented during the QUEST presentation |
| 172 Shineman | 9 AM- 10 AM | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Kalici, Selim | Churchill, Rasika; Churchill, Greg | Simplicial Homology | This talk will discuss Simplicial Homology and its applications in Algebraic Topology. Simplicial Homology is the study of topological spaces by applying linear and modern algebra to be able to count the number of holes, tunnels, and voids present in a space. |
| 172 Shineman | 9 AM- 10 AM | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Riley, Randall Hugh | Ilie, Carolina | On the Center of Mass of the Half n-Ball | This project explores how the center of mass (COM) of a half ball depends on its number of dimensions (n). A closed form solution is obtained for the COM, which confirms the known two and three dimensional cases. The solution is found computationally to converge. |
| 172 Shineman | 10 AM- 11 AM | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Manno, MIchele | Ilie, Carolina | Strategies for Teaching Physics | Teaching is a multifaceted profession that is often misunderstood as glorified babysitting and is underappreciated because of it. Truthfully, great teachers are responsible for positively impacting the lives of their students and preparing them for their futures. In particular, physics teachers are in high demand as academic demands continue to increase and it is up to educators and physicists to prepare physics teachers to change the lives of the new generations for the better. Various topics of interest such as how to engage students in physics material, and what needs to be done to improve the quality of teaching and learning will be discussed. |
| 172 Shineman | 10 AM- 11 AM | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Randall, Riley, Hugh | Kanbur, Shashi | Instability Strips of 3 Types of Classical Variable Stars | This project uses the 1D hydrodynamic radiation code MESA/RSP with four different theories of convection to model pulsating stars. Theoretical instability strips are determined from these models and compared to observational data from the OGLE IV mission. The comparison can be used to constrain the current theory of stellar pulsation. |
| 172 Shineman | 10 AM- 11 AM | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Kalici, Selim | Kanbur, Shashi | A Machine Learning Distance to Galactic Globular Cluster M3 | Messier 3 is a globular cluster that is filled with variable stars such as RR Lyrae. The fluctuation in the light curve of these stars has historically been used to compute distances in astronomy. In this talk we will discuss a machine learning based approach on estimating fundamental parameters of variable stars such as the mass, distance, and temperature using a mixture density network. Furthermore, we apply game theoretic methods to compute feature importances of the stars, seeing which features contribute most to an accurate prediction. |
| 172 Shineman | 11 AM- noon | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Kalici, Selim | Kanbur, Shashi | Derivation of the Oppenheimer-Volkov Equation | In stellar astrophysics the equation of hydrostatic equilibrium describes the balance of pressure and gravity in the sun. Although, the typical equation for hydrostatic equilibrium uses Newton's formulation of gravity; in this talk we discuss the limiting nature of this formula, and derive the general relativistic equation for hydrostatic equilibrium under Einstein's theory of gravity, the Oppenheimer-Volkoff equation. |
| 172 Shineman | 11 AM- noon | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Randall, Riley, Hugh | Kanbur, Shashi | The Effect of Turbulent Convection of Cepheid Light Curves | We present initial results of a study to determine the effects of 1d turbulent convection theories on full amplitude Cepheid light curves. |
| 172 Shineman | 11 AM- noon | https://oswego-edu.zoom.us/j/95013629178 | **Mathematics and Physics** | Austin, Anthony | Rupasinghe, Priyanka | Progress towards observing electromagnetically induced transparency (EIT) in cesium | A ladder-type electromagnetically induced transparency (EIT) is investi- gated in cesium gas. We use two homemade external-cavity diode lasers (ECDL) to produce a weak probe beam at 852.3 nm (6S1/2 → 6P3/2) and a strong coupling beam at 520.3 nm (6P3/2 → 18D5/2). The progress of the experiment is presented |
| Planetarium 223 Shineman | 3 PM- 4 PM |   | **Planetarium *via* Mathematics and Physics** | Miller, Natalie | Lewandowska, Natalia | Planetarium Show: “M87: Imaging the Invisible” | Black holes have been one of the most elusive objects in the universe, as their properties make it almost impossible to directly observe them. The Event Horizon Telescope, a collaboration between multiple telescopes around the world, produced the first image of a black hole. They overcame numerous challenges during this process, especially regarding the overwhelming amount of data that had to be collected, transported, and analyzed. After taking an image of M87 successfully, they went on to image Sagittarius A\*, at the center of our own Milky Way Galaxy. The M87 photo was groundbreaking to the scientific community, as it proved the theorized existence of the event horizon |
| 242 Marano | 11 AM- noon |   | **Office of International Education and Programs (OIEP)** | Thelen, Nicholas | McKeown, Joshua | Music of Italy: My Experience Abroad | Exploring new cultures and experiencing different lifestyles is a great way to gain insight into a global world. In preparation for a professional career, I took this course to expand my perspective. After traveling around Italy, I'd like to share my experiences and takeaways from this incredible opportunity. |
| 242 Marano | 11 AM- noon |   | **Office of International Education and Programs (OIEP)** |  Weber, Miles; Lashinsky, Abigail; Oghenekome, Favoured-Joy; Montero, Kiara; Silverman, Samantha  | Alvarado, Lizette; Adams, Kris; Roderick, Alyssa | I, Too, Am Study Abroad (ITASA): Financing Your Study Abroad Experience | I, Too, Am Study Abroad (ITASA) is a group created for inclusion of all individuals who desire to, and have successfully completed, education abroad. With no limits to who can study abroad, the ITASA panel explains how everyone can afford their education overseas, regardless of financial background. |
| 195 Shineman | 11 AM- noon |   | **Philosophy** | Stewart 1, Jeffrey 1 | Peterson, Jared | Come on, Chatbots, Be Reasonable! | This talk explores whether presently existing chatbots engage in reasoning, or something like it, and what conclusions we can draw from this about mentality if they can be. |
| 196 Shineman | 11 AM- noon |   | **Philosophy** | Zinser 2, Julia 2 | DeLancey, Craig | The Conundrum of Inter-personal Violence | From the perspective of evolutionary psychology, interpersonal violence presents a conundrum. I offer a potential explanation. |
| 315 Park | 10 AM- 11 AM |   | **Psychology** | Lashinksy, Abigail | Rice, Sam; Wolford, Karen | Predictors and Influences of Well-Being and Utilization of Mental Health Services Among Veterans: Preliminary Findings | Veterans face several challenges and barriers to accessing care. Data from the 2016 National Survey on Drug Use and Health was utilized in this study. Findings included veterans with the lowest well-being had higher rates of healthcare services utilization. These findings can guide future interventions in transitioning from the military. |
| 315 Park | 10 AM- 11 AM |   | **Psychology** | McGrath, Savanna | Tenbergen, Gilian | Reducing Stigma and Punitive Attitudes Toward Pedophiles Through Narrative Humanization | This study assess stigma reduction toward people with pedophilic sexual interests. Improving the stigmas surrounding peoples that are pedophilicly-inclined is of great importance due to its role in potentially reducing child sexual abuse by framing pedophilia as a public health issue, and promoting the idea of providing treatment for pedophilia. |
| 315 Park | 10 AM- 11 AM |   | **Psychology** | Kearns, Kiley | Tenbergen, Gilian | Linking Personality Styles and Cognitive Distortions to Offense Proclivity in Minor-Attracted Persons | This talk presents ongoing research about offense risk and psychological profiles of minor-attracted persons in line with sexual abuse prevention. This research assesses an international sample of minor-attracted persons who use fantasy sexual materials, and links personality traits with offense-supportive cognitions to establish risk-enhancing vs risk-reducing subgroups. |
| 315 Park | 11 AM- noon |   | **Psychology** | Sullivan, Rebecca | Rhodes, Theo | Category Switching in Human Memory and Animal Foraging: A Review of Levy Dynamics | This study explores how the human mind remembers new information by drawing parallels between human memory and animal foraging behavior. Participants were given word prompts from multiple categories simultaneously. The study aims to understand Lévy foraging dynamics and switching behavior between categories in humans. |
| 315 Park | 11 AM- noon |  | **Psychology** | Sigdel, Anubhav | Rhodes, Theo | Motion Capture of a Fitts' Task with Chopsticks | The study aims to investigate relationships between tool use, expertise and the inherent tradeoff between speed and accuracy in human coordination. Participants performed a Fitts' task using chopsticks and fingers with movement data recorded by FreeMoCap software. This research potentially improves our understanding of human movements during tool use. |
|   | 9 AM- 10 AM | [https://oswego-edu.zoom.us/j/97881042341](https://oswego-edu.zoom.us/j/95317617157) | **School of Business** | Shah, Syed; Skolnik, Richard |   | The Role of Heuristic-driven Biases in Entrepreneurial Decision-making: Moderating Effects of Financial Literacy: Empirical Evidence from the USA and Pakistan | This study aims to explore the mechanism by which heuristic-driven biases influence entrepreneurial decision-making, with the moderating role of financial literacy. The U.S.A results can provide valuable insight into designing recommendations for overcoming problems arising out of heuristic biases in decision-making by entrepreneurs in developing countries such as Pakistan. |
| 206 Marano | 10 AM- 11 AM |  | **School of Business** | Sigdel, Anubhav | Tajvarpour, Mohammad | Data Visualization for International Trade Data | This project aims to provide insights into international trade data through data visualization. It involves the use of Python scripts to extract data, Tableau and Python for initial visualizations, and Gephi for more advanced network visualizations. Log transformations of the data will also be used and discussed.  |
| 206 Marano | 10 AM- 11 AM |  | **School of Business** | Weiner, Hayley; Friedman, Barry A.; Desai, Ashith Raj  | Friedman, Barry A. | Business Competency Drives Success Across Professions | Business competency acquired prior to entering the workforce enhances entry-level professionals' ability to advance in their respective fields. In this presentation, we provide examples of competencies across various professions in business to demonstrate how they drive professional effectiveness in many fields.  |
| 206 Marano | 11 AM- noon |  | **School of Business** | Calinski, Sam; Costello, Leanna; Lee, Dee Sheng; Saalfrank, Michael; Friedman, Barry A.  | Friedman, Barry A.  | Human Resource Management Workplace Trends Relevant to Undergraduates | Attention is usually centered on what employers want to see in their new college hires. This panel presents workforce trends as research by seniors themselves. These trends include: working remotely, workplace well-being, educational assistance impact, and the future of diversity, inclusion and equity, and belonging (DEIB). |
| 114 Marano | 9 AM- 10 AM |  | **School of Education Clinical Practice and Partnerships Office** | Mariano, Alana; Clarke, Breanna; Kourouma, Tiguidanke; Thomas, Daniel  | Brown, Nichole | Why Does Representation STILL Matter? | Is the way you are perceived your reality? What do you do when your perception is at odds with your truth? How can the narrative be changed? Come discuss with us, and learn why representation still matters today. The Teacher Opportunity Corps (TOC II) scholars will address/present why representation still matters today in P-16. |
| 232 Marano | 11 AM- noon |  | **Triandiflou Institute** | Oluwatosin Adebiyi and Cyniah Wynn | Terrian Garvis | Microagression and Black Hair | This panel discussion will provide a platform for the Black diaspora to freely share their lived experiences with microaggressions relating to their hair. Panelists will explore questions such as: What does it mean to be Black? What does your hair mean to you? What are you experiences with microaggressions and in what ways have you been able to challenge these exclusionary behaviors?  |