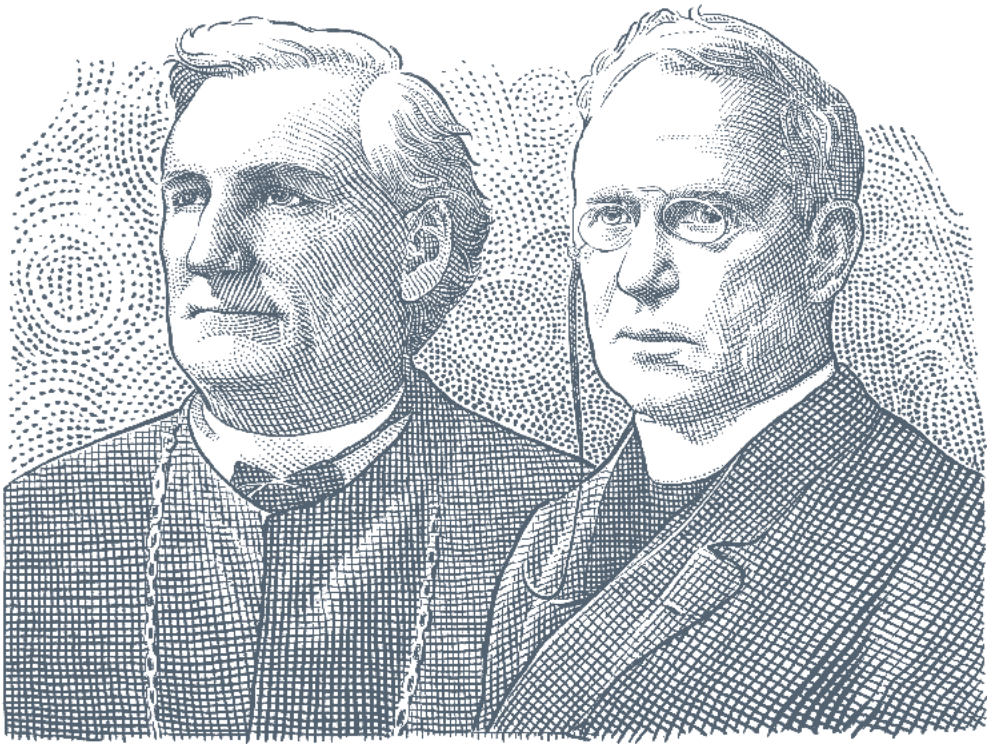




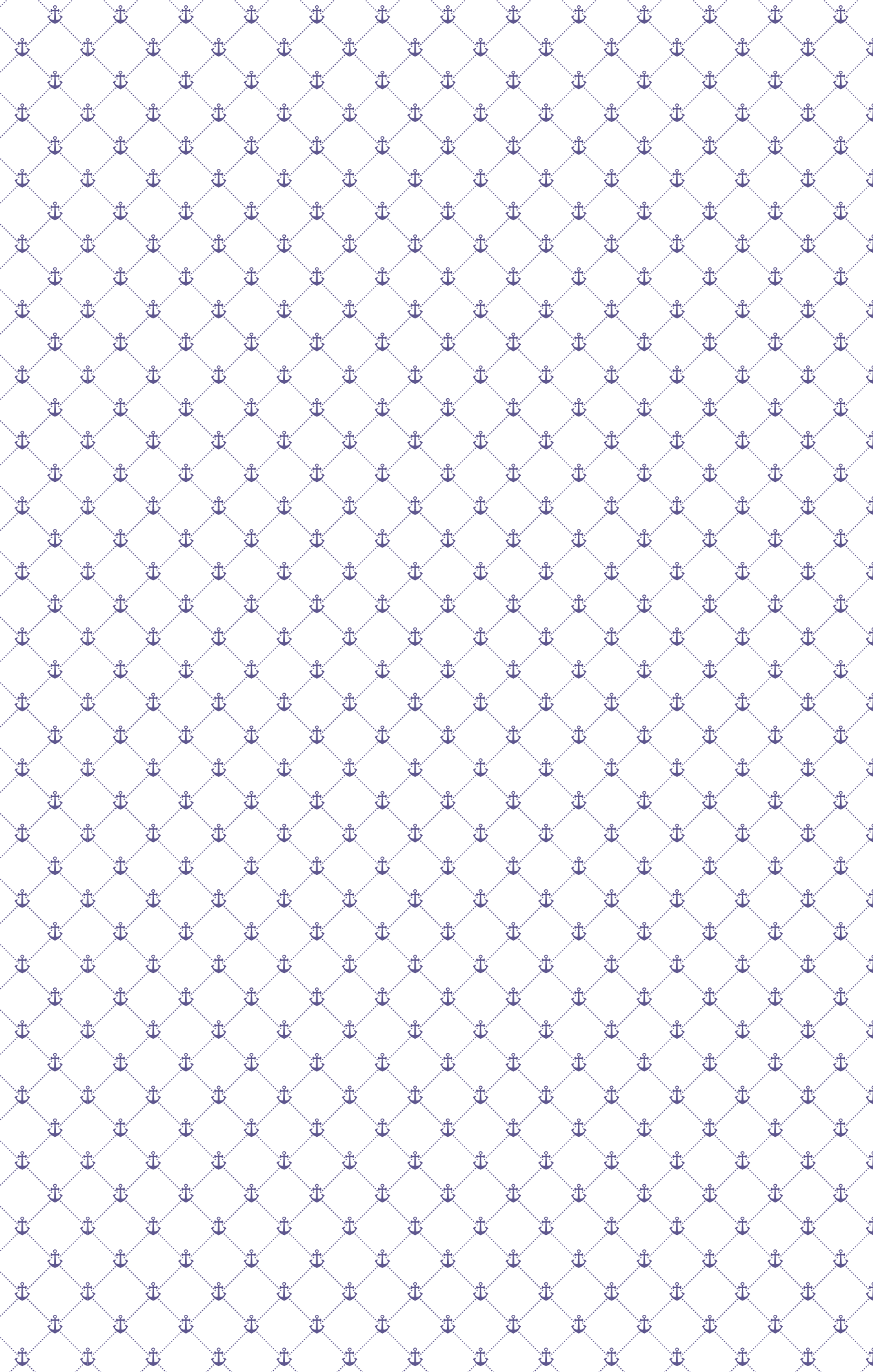
UNIVERSITY OF PORTLAND



FOUNDERS' DAY

SCHEDULE OF EVENTS

TUESDAY, APRIL 20, 2021



Founders' Day is when the University of Portland pauses to celebrate its rich past and its promising future: the past as we honor the bold leaders — Archbishop Alexander Christie and Father John Zahm — who dared to dream of a Catholic university overlooking the Willamette River; the future as we learn from our most outstanding students whose research as undergraduates portends great things for the future. In recognition of the importance of both the past and the future, the University holds no classes on a Tuesday in April and instead opens its doors to all to learn from our best and brightest students.

Founders' Day was first celebrated in the spring of 1902 following the completion of the first academic year in recognition of Archbishop Christie and Fr. Zahm's vision and determination. It quickly became a tradition. Archbishop Christie would ride his horse, Dandy, to campus from Portland each spring in order to give a lecture to the young men composing the student body. And then based on his authority as the Archbishop, he would cancel classes for the remainder of the day. With his death in 1925, the tradition also ended. Founders' Day was revitalized in 2001 as a part of the University's centennial celebration and has continued to grow since then.

Presentations

All presentations will be presented virtually. Click on the link next to the department name to view a presentation at the designated time.

3-6 Session I 10:15 - 11:05 a.m.

7-9 Session II 11:15 a.m. - 12:05 p.m.

10-12 Session III 2:15 - 3:05 p.m.

13-14 Session IV 3:15 - 4:05 p.m.

Poster Sessions

Students will be available to discuss their posters during the noted poster presentation session, but the posters will be viewable anytime at upfoundersday2021.virtualpostersession.org

14-15 10:15 - 11:05 a.m.

16-17 11:15 a.m. - 12:05 p.m.

18 2:15 - 3:05 p.m.

18-19 3:15 - 4:05 p.m.

Post-Founders' Day Evening Events

6:00 - 8:00 p.m. *Writers* magazine launch party, all invited,
<https://uportland.zoom.us/j/95422789721>

up.edu/foundersday

▪ College of Arts and Sciences | Biology

<https://uportland.zoom.us/j/9093641171>

“Examining the development of coronary arteries using the shear stress marker eNOS.”

Endothelial nitric oxide synthase (eNOS) modulates vascular tone and is vital for blood vessel health. I examined its expression pattern in the chick embryo to understand coronary remodeling. My data suggest that the coronary arteries experience increasing levels of shear stress as they connect to the aorta.

Presented By: MaryKate Kordash

Faculty Sponsor: Laura Dyer

“Analyzing *C. elegans* double mutants to investigate parallel pathways that ensure proper partitioning of chromosomes during cell division in different cell types.”

We are using *Caenorhabditis elegans* to better understand components that regulate partitioning of chromosomes during cell division. Haspin and BUB-1 are proteins that are thought to act in parallel to promote accurate chromosome partitioning. Using double mutants, we can test the extent to which these proteins act independently and compensate for one another.

Presented By: Danielle Carmeci

Faculty Sponsor: David Wynne

“Regulating Chromosomes During Cell Division: Investigating the role of Haspin and Polo-like Kinase Proteins in *C. elegans*.”

Passing on the wrong number of chromosomes can result in infertility, birth defects, and cancer. Haspin and polo-like kinase play vital roles in regulating chromosome segregation, but there are unanswered questions about how these proteins function in different types of cells. The goal of this project is to use genetic techniques available in *C. elegans* to better understand these proteins.

Presented By: Jommel Macaraeg

Faculty Sponsor: David Wynne

▪ College of Arts and Sciences | Chemistry

<https://uportland.zoom.us/j/92805992049>

“Physicochemical properties of 2,5-dihydroxy-1,4-quinones appended with phosphonato groups.”

Synthetic procedures leading to 2,5-dihydroxy-1,4-quinone compounds appended with phosphonato substituents have been developed. The phosphonato groups were found to play a significant role in forming different coordination pockets towards Li⁺, Na⁺, and K⁺ in the crystalline state. Presented herein are our synthetic procedures, spectroscopic, structural, and electrochemical studies.

Presented By: Kailin Mooney

Faculty Sponsors: Eugenijus Urnezisus and Edward Valente

“Nickel(II) complexes supported by new tripodal P3S ligand bis(2-diphenylphosphanylphenyl)(2-thiomethylphenyl)phosphine.”

Bis[2-(diphenylphosphino)phenyl]-2-thiomethylphenylphosphine (P3S), a tetradentate asymmetrical phosphine ligand was synthesized for the first time. The compound is an effective chelating ligand towards Ni²⁺ sources. Four coordination complexes were synthesized and characterized. Cyclic voltammetry studies suggest these complexes can serve as electrocatalysts for hydrogen production from water.

Presented By: Jason Ware

Faculty Sponsors: Eugenijus Urnezisus and Edward Valente

“Probing the enzymatic activity of an uncharacterized radical S-adenosylmethionine enzyme from *Thermotoga neapolitana*.”

Radical S-adenosyl-L-methionine (SAM) enzymes, a large and diverse superfamily with over 100,000 putative members, are found in all kingdoms of life, underscoring the importance of enzyme controlled radical chemistry. To expand this growing area of study, an uncharacterized *Thermotoga neapolitana* radical SAM enzyme was overexpressed, purified, and reconstituted for spectroscopic characterization.

Presented By: Kay Smith and Lilly Landers

Faculty Sponsor: Rachel Hutcheson

Session I 10:15 - 11:05 a.m.

- College of Arts and Sciences | Communication Studies <https://uportland.zoom.us/j/99674930685>

“It’s a Touchy Subject: How Connection is (Re)Imagined in a Global Pandemic.”

In unavoidable ways, the Coronavirus pandemic has changed the way that we engage in touch behaviors and connect with each other. In response, a study was designed to understand of how individuals were fulfilling their need for connection when touch seems needed yet discouraged. This presentation will review the study’s results and some insights on how the pandemic has touched our lives.

Presented By: Brittani Klindworth

Faculty Sponsor: Jennette Lovejoy

- College of Arts and Sciences | English <https://uportland.zoom.us/j/92662095946>

“Pulp Fiction and Bury-Your-Gays: The Culture That Made and Killed Us.”

Presented By: Lucy Mackintosh

Faculty Sponsor: Sarah Weiger

“Beacons of Connection: Capacity of Community-Building and Empowerment in Narratives of Sexual Assault.”

Presented By: Sophie Downing

Faculty Sponsor: Sarah Weiger

“Magical Realism and Sacramentality in *Como Agua Para Chocolate*.”

Presented By: Katie Wojda

Faculty Sponsor: Sarah Weiger

- College of Arts and Sciences | Environmental Studies <https://uportland.zoom.us/j/98909013045>

“The Lower Snake River Dams: Past, Present, and Future.”

Presented By: Meg Bender-Stephanski, Christian Garcia-Feuss, Drew Gibson, Taylor Jensen, and Rosie Riley

Faculty Sponsors: Heather Carpenter and Norah Martin

“Earth Jurisprudence and the Intrinsic Rights of the Snake River.”

Presented By: Aislinn Hill, Noah Kessler, and Sarah Larson

Faculty Sponsors: Heather Carpenter and Norah Martin

“Tribal Water Rights: History and Future of the Klamath River Basin.”

Presented By: Melanie Solis Alvarez, Samantha Ishihara, Justin Myers, Jennifer Ng, and Doug Rossi

Faculty Sponsors: Heather Carpenter and Norah Martin

- College of Arts and Sciences | History <https://uportland.zoom.us/j/96436071697>

“A Collaborative Crusade: Economic Incentives for Religious Tolerance in Sicily, 1061-1189.”

This presentation argues that, although the Normans imposed their own Christian culture and administration in Sicily after 1061, Norman rulers actually embraced many elements of Arabic culture because they prioritized economic prosperity over religion. Thus, Norman Sicily offers evidence of both tolerance and conflict between Christian rulers and Muslim subjects.

Presented By: Francesca Duncan

Faculty Sponsor: Brad Franco

“Plague and Progress: An Analysis of Giovanni Boccaccio’s *Decameron* and Reform during the Initial Outbreak of the Black Death.”

This presentation argues that Boccaccio’s *Decameron* is best understood as an argument against unjust authority and aims to imagine a more just world in the aftermath of the Black Death.

Presented By: Benjamin Hecko

Faculty Sponsor: Brad Franco

“Reconstruction’s Police Reform: Understanding Modern Police Problems Through Comparison of Their Reformations in 19th Century New York, New Orleans and Chicago.”

Through an examination of the development of police departments in New York, Chicago, and New Orleans from 1865-1880, this presentation will show how White Supremacy was able to infiltrate American police forces after the Civil War.

Presented By: Nicholas Pisani

Faculty Sponsor: Brad Franco

Session I 10:15 - 11:05 a.m.

- College of Arts and Sciences | Philosophy <https://uportland.zoom.us/j/96140926099>
“USAmerican Identity: Realities and Complications.”

Presented By: Megan Musquiz

Faculty Sponsors: Jeff Gauthier and Anne Santiago

- **“United States and Latin America at the Border: Moral and Political Obligations of a Democracy.”**

Presented By: Katherine Rojas

Faculty Sponsors: Anne Santiago, Lara Trout, and Alejandro Santana

- College of Arts and Sciences | Political Science <https://uportland.zoom.us/j/97290939168>
“UP Mock Trial Showcase: The Estate of Genesis Petrillo v Harper Martini.”

Students will take on the role of plaintiff and defense attorneys as well as witnesses. Each side will have two speeches, an opening statement, and a closing statement. Both sides will call forth one witness to testify and be cross examined. We ask the jury to decide: Did Harper Martini poison her daughter-in-law to be?

Presented By: Maeve Mahoney, Ameilia Christenson, Claire Lang, Erin McKibbin, Alex Miller, Chase Brady, Kira Vollans, Richard Ressa, and Grace McDonnell

Faculty Sponsor: William Curtis

- College of Arts and Sciences | Sociology <https://uportland.zoom.us/j/91555642601>
“Multiple Identities: Ways Multiracial Individuals Negotiate Identity.”

This study investigates how multiracial individuals negotiate their identities and how this process affects their sense of well-being.

Presented By: Matiana Hebert

Faculty Sponsor: Martin Monto

- **“Cohort Differences in Bisexual Relationship Behaviors and Attitudes.”**

This study examined bisexual behaviors and attitudes from 1990 to 2018 using a nationally representative samples.

Presented By: Sophia Neuweiler

Faculty Sponsor: Martin Monto

- **“The Disproportionate Impact of COVID-19 on Native American Reservations in Contrast to Surrounding States.”**

COVID-19 rates and risk factors among four Native American reservations were compared to those of surrounding states.

Presented By: Camryn Hughes

Faculty Sponsor: Martin Monto

- College of Arts and Sciences | Theology <https://uportland.zoom.us/j/98873538155>
“In God’s Image: Reconstructing Christian Beliefs about the LGBTQ+ Community.”

A critical examination of the Bible passages often used to justify Christian homophobia and transphobia, asserting the innate goodness of queer identities and the necessity of a theology of affirmation.

Presented By: Ruby Lindgren

Faculty Sponsor: Nina Henrichs-Taraskova

- **“Decolonizing Christian Fundamentalism: A Prophetic Response.”**

A prophetic response to the rise of Christian fundamentalism and its role in American politics.

Presented By: Sage Taylor

Faculty Sponsor: Sr. Carol Dempsey, O.P.

- Pamplin School of Business <https://uportland.zoom.us/j/92047003949>
“Re-Branding Yoga: Lululemon’s Blue Ocean Opportunity.”

Presented By: Emily DeMots

Faculty Sponsor: Samuel Holloway

Session I 10:15 - 11:05 a.m.

▪ Pamplin School of Business

<https://uportland.zoom.us/j/98769174541>

“Data-Driven Research to Improve ThredUP.”

Presented By: Rachel Hu and Emily Inman

Faculty Sponsor: Ian Parkman

▪ School of Education

<https://uportland.zoom.us/j/3097759337>

“Culturally Responsive Teaching in All Learning Environments.”

A crucial component of culturally responsive teaching is how to differentiate for individuals in all learning settings to meet students’ needs. We will be sharing different methods and resources to implement culturally responsive teaching in both in-person and remote teaching environments.

Presented By: Jessica Wehber, Chloe Mar, Emma Cromwell, Braelyn Higdon, and Brienne Tajima

Faculty Sponsor: Hillary Merk

▪ Shiley School of Engineering | Interdisciplinary

<https://uportland.zoom.us/j/97443218057>

“Grand Challenge Scholars Project - Engineering the Tools of Scientific Discovery and the Exploration of Space.”

Engineering the tools of scientific discovery has been identified by the National Academy of Engineering as one of the 14 grand challenges making our world more sustainable, secure, healthy, and joyful. The multidisciplinary, multicultural, entrepreneurial, social and creative aspects of this challenge will be explored.

Presented By: Chloe Gan

Faculty Sponsor: Mark Kennedy

“Senior Honors and Grand Challenge Scholars Project - International Way Corridor Improvements: Restoring and Improving Urban Infrastructure.”

Restoring and improving urban infrastructure has been identified by the National Academy of Engineering as one of the 14 grand challenges, making our world more sustainable, secure, healthy, and joyful. The multidisciplinary, multicultural, entrepreneurial, social, and creative aspects of this challenge will be explored in this presentation.

Presented By: Erin McConville

Faculty Sponsor: Jordyn Wolfand

“Grand Challenge Scholars Project - Making our World More Sustainable: Electric Motor Failure.”

Electric Vehicles are becoming more ubiquitous by the second, and observing the way their motors fail is one step to the success of a sustainable future. Inspired by my senior capstone project, I model the way an electric motor can fail and provide solutions for a better tomorrow.

Presented By: Alexis Molina

Faculty Sponsor: Mark Kennedy, Industry Advisor: Karsten Zuendel

▪ School of Nursing

[Click here to attend session](#)

“How Implicit Bias and Systemic Barriers Impact Pregnant African American Women.”

African American women are three times more likely to die during pregnancy and twice as likely to experience severe maternal morbidity. Learned implicit biases of healthcare providers perpetuate systemic barriers and negatively impact the perinatal care of this population. Recommendations to alter the current healthcare culture are provided.

Presented By: Brooke Lovell

Faculty Sponsors: Kristine Harrington and Amber Vermeesch

“Intentional Transdisciplinary Student Preparation for Ethical Study Abroad Global Engagement.”

International learning experiences can reinforce neocolonialist student perspectives rather than engendering respect for different worldviews, practices, and cultures. We explore the use of Critical Race Theory, Black feminism, and Ethnic studies pedagogy in guiding preparation of participants through critical self-reflection in order to connect with host culture and community in meaningful ways.

Presented By: Carrington Nguyen and Isaiah Saluta

Faculty Sponsors: Claire McKinley-Yoder and Isabelle Soule

Session II 11:15 - 12:05 p.m.

- College of Arts and Sciences | Biology <https://uportland.zoom.us/j/97416606301>

“Metagenomic analysis of the impact of native and invasive plant species on microbial community composition in the Smith and Bybee Wetlands Natural Area.”

Presented By: Kristen Uskovich

Faculty Sponsor: Ryan Kenton

“Y-Haplotype Analysis of Male Saliva Samples and Bones from Mallorca, Spain.”

Presented By: Shannon Leffler

Faculty Sponsor: Amelia Ahern-Rindell

- College of Arts and Sciences | Chemistry <https://uportland.zoom.us/j/92805992049>

“The Medicinal properties of *Plectrantus ambionicus*.”

Plectrantus ambionicus (*Coelus ambionicus*) of the family Lamiaceae is a semi-succulent plant, with a pungent oregano-like flavor and odor. It grows in Southern and Eastern parts of Africa where it's used as a pain reliever and food additive. The plant extracts were determined to have antibacterial, antitoxicant, anticarcinogenic, and antifungal properties.

Presented By: Mellonie Mwawai

Faculty Sponsor: Sr. Angela Hoffman, O.S.B.

“Finite Difference Time Domain (FDTD) Calculations of Silver Nanoprism Optical Properties.”

Presented By: Bryan Hunter

Faculty Sponsor: Paige Hall

“Improving Ethenolysis Using Cyclic Alkyl Amino Carbene Ligated Ruthenium Catalysts.”

Long-chain alkenes can be broken into more-useful terminal alkenes through a reaction called ethenolysis. This reaction allows plant-based oils to take the place of petroleum feedstocks, if suitable catalysts can be found. We present a computational study of cyclic alkyl amino carbene (CAAC)-ligated ruthenium catalysts that are currently the best catalysts for ethenolysis.

Presented By: Aubrey Putansu

Faculty Sponsor: Buck Taylor

- College of Arts and Sciences | Environmental Studies <https://uportland.zoom.us/j/95482711617>

“Combined Sewage Overflows on the Willamette River: The Impacts and the Solutions.”

Presented By: Ben Dornerkiel, Jack Margheim, Macey Schondel, and Mia Werner

Faculty Sponsors: Heather Carpenter and Norah Martin

“Coastal Wetland Restoration: A Case Study of the Puget Sound and the Implications of Recommended Future Action.”

Presented By: Emily Hosoume, Arianna Perez-Wolfe, Alessandro Ranieri, and Trudi Timperman

Faculty Sponsors: Heather Carpenter and Norah Martin

“Does Dairy Spell Doom? The Impacts and Implications of Animal Agriculture on Pacific Northwest Freshwater Systems.”

Presented By: Kathryn Lampe, Alysha Naone, Jacob Nguyen, and Elizabeth Reich

Faculty Sponsors: Heather Carpenter and Norah Martin

- College of Arts and Sciences | Performing and Fine Arts <https://uportland.zoom.us/j/96790956805>

“Music Program Honors Recital.”

Select students from the Music Program perform as part of the annual Honors Recital. This year's participants are: Natalie Goodpaster (voice), Lauren Guerin (violin), Scott Kermode (violin), Alberto Rincon-Pardo (voice), John Schuster (French horn), McKennah Thornton (voice), and Jade Ward (clarinet).

Presented By: Natalie Goodpaster, Lauren Guerin, Scott Kermode, Alberto Rincon-Pardo, John Schuster,

McKennah Thornton, and Jade Ward

Faculty Sponsor: Patrick Murphy

Session II 11:15 - 12:05 p.m.

▪ College of Arts and Sciences | Philosophy
“Immortality.”

Presented By: Thomas Mensing

<https://uportland.zoom.us/j/92187439104>

Faculty Sponsor: Jim Baillie

“Loving Nature.”

Presented By: Taylor Jensen

Faculty Sponsor: Andrew Eshleman

“Understanding Teotl as the Ultimate Reality.”

Presented By: Cole Fitter

Faculty Sponsor: Alejandro Santana

▪ College of Arts and Sciences | Political Science

<https://uportland.zoom.us/j/8638792400>

“A Theory of Hip Hop.”

Part of the reason hip hop is a particularly important part of our culture is that it establishes an alternative normative framework that challenges the mainstream view of how one ought to live in the world. One important aspect of our work is to push back against the pervasive vilification of hip hop music and culture and show a more complete view of the meaning and importance of hip hop.

Presented By: Karl Kahambwe

Faculty Sponsor: Jeffrey Meiser

“Beyond Borders and Binaries: 70 Years of the Refugee Convention.”

“Beyond Borders and Binaries: Gendered Experiences of Migration and Displacement” curates knowledge and experiences around migration and displacement from a gendered perspective. The objective of the project is to conceptualize a gender-responsive protection framework beyond borders and binaries. This includes research, advocacy, and education on gendered experiences of migration and displacement.

Presented By: Olivia Brimhall, Emma Wells, and Trevor Riedmann

Faculty Sponsor: Lara-Zuzan Golesorkhi

“Land Displacement in Uganda and Rwanda: Conformity and Resistance to Modernization Efforts of the State.”

Project explores how populations in Uganda and Rwanda have conformed to or resisted attempts by national leaders to modernize the peasantry in rural areas. We focus on the pressures to conform to global economic trends and compare experiences of displacement in these countries to those in the US. Mapping technology, podcasts, and other media are used to share our findings publicly.

Presented By: Andrew Jauhiainen and Timothy Haarmann

Faculty Sponsor: Anne Santiago

▪ College of Arts and Sciences | Social Work

<https://uportland.zoom.us/j/92507909784>

“Improving Mental Health Services for Immigrant and Refugee Populations: An Examination of Culturally-Specific Mental Health Models.”

The objective of this project is to examine existing program models that culturally specific mental health services are using, with a focus on services delivered to immigrants and refugees. More specifically, I will look at the approaches that various programs are taking to address disparities in access to resources, as well as cultural views on seeking mental health services.

Presented By: Abbie Aspinwall

Faculty Sponsors: Lizz Schallert and Alice Gates

“Effects of Second Hand Trauma on Emergency Relief Social Service Providers.”

This presentation will report on qualitative research with social service providers involved in COVID-19 relief efforts, including the impacts of secondary trauma on providers. This research examines the experiences of social service providers involved in providing emergency relief and explores how the training and preparation for staffing emergency relief could be improved.

Presented By: Zach Sessa

Faculty Sponsors: Alice Gates and Lizz Schallert

Session II 11:15 - 12:05 p.m.

▪ College of Arts and Sciences | Theology

<https://uportland.zoom.us/j/96995989311>

“Open Doors to the Divine Garden.”

This capstone takes Wicca’s naturalistic language of the divine and applies it to Elizabeth Johnson’s Catholic discussion of God and women.

Presented By: Burke Hoss

Faculty Sponsor: Rachel Wheeler

“A Theological Examination of Global Neoliberalism.”

An examination of Global Neoliberalism through the lenses of theological anthropology and ethics. In particular, its effects on human social relations and imago dei will be examined.

Presented By: Erik Best

Faculty Sponsor: Tina Astorga

▪ Pamplin School of Business

<https://uportland.zoom.us/j/95312131351>

“Salt & Straw, Final Research Report.”

Presented By: Addi Sayers and Isabel Cornejo

Faculty Sponsor: Ian Parkman

▪ Pamplin School of Business

<https://uportland.zoom.us/j/98743210267>

“If I had a Rental? Tax Strategy Research on Building Wealth.”

Presented By: Patricia Thornton

Faculty Sponsor: Teri Grimmer

▪ School of Education

<https://uportland.zoom.us/j/98477445197>

“Student Teaching during the COVID-19 Pandemic: Navigating Between Being both Student and Teacher.”

The COVID-19 pandemic flipped the education world on its head, affecting both teachers and students. There is a small group of candidates in higher education, however, that has to balance between both of these worlds: student teachers. This presentation will recount a research study recounting the lived experiences of these student teachers.

Presented By: Rachel Blakely

Faculty Sponsor: Nicole Ralston

▪ Shiley School of Engineering | Interdisciplinary

<https://uportland.zoom.us/j/95060803519>

“Senior Honors Project - OHSU Helping Hand.”

We are part of a 6-person multidisciplinary team that is building a prosthetic hand and wrist for persons with upper limb deficiencies. As the computer science specialists, we are leveraging open source machine learning software to control the device with a muscle-sensing armband and a variety of microcontrollers.

Presented By: Hayden Liao and Ryan Regier

Faculty Sponsor: Jen Symons

“Grand Challenge Scholars Project - Energy Storage: The Future of Renewable Energy Development.”

Renewable energy generation has seen incredible progress in the past few decades, both in the amount of energy the world is producing through clean sources and in the reduction in cost for these technologies. However, without viable electrical energy storage methods it is unlikely that the world will ever be able to fully divest from carbon-based energy systems in order to combat a warming climate.

Presented By: Graham Foster

Faculty Sponsors: Mark Kennedy and Jordan Farina

Session III 2:15 - 3:05 p.m.

▪ College of Arts and Sciences | Biology

<https://uportland.zoom.us/j/93980493468>

“Pathogenic Coronavirus Spillovers: Anthropogenic Influence and Host-Pathogen Interactions.”

Presented By: Zoe Kellermyer

Faculty Sponsor: Susan Murray

“Cancer therapies that target inhibitors of apoptosis affect human T cells.”

Targeted cancer therapies are chemotherapy drugs that kill cancer cells. They do this by targeting specific pathways, some of which are shared by cells in the immune system. Our research seeks to clarify the impact of a class of targeted therapies, SMAC mimetics, on T cells. This is significant because T cell function is critical for generating an anti-cancer response via the immune system.

Presented By: Brittany Ligman and Ashley Burton

Faculty Sponsor: Susan Murray

“Incubation Attendance Patterns of Purple Martins on the Franz River Campus.”

The distribution of incubation effort between male and female Purple Martins in western North American populations is still largely unknown. Historical literature on eastern populations notes that females are the primary incubators with males helping out while females forage. We’ll present incubation attendance patterns within pairs from our colony on the Franz River Campus.

Presented By: Abby Knott

Faculty Sponsor: Katie O’Reilly

▪ College of Arts and Sciences | Environmental Studies

<https://uportland.zoom.us/j/98199306451>

“Mt. Hood Glacier and Snowpack Loss: Causes, Impacts, and Implications.”

Presented By: Molly Lowney, Sydney Livingston, Luke Scanlan, and Catherine Watson

Faculty Sponsors: Heather Carpenter and Norah Martin

“The Hanford Nuclear Site: Impact on the Columbia River Ecosystem and Indigenous Groups.”

Presented By: Sara Elam, Katie Gomes, Josie Hughes, Clara Lietz, and Calvin Shigo

Faculty Sponsors: Heather Carpenter and Norah Martin

▪ College of Arts and Sciences | International Languages and Cultures

<https://uportland.zoom.us/j/94241194658>

“El plan maestro para mi novia.”

Creative writing inspired in the short story “Una sortija para mi novia” by Humberto Padró.

Presented By: Zachary Sessa

Faculty Sponsor: Maria Echenique

“El primer día.”

Creative writing inspired in the short story “Once” by Sandra Cisneros.

Presented By: Megan Caren

Faculty Sponsor: Maria Echenique

“El sacrificio del inmigrante.”

Creative writing inspired in the short story “hombre muerto” by Horacio Quiroga.

Presented By: Daniel Rodriguez-Pena

Faculty Sponsor: Maria Echenique

“Creative writing inspired by ‘La casa de Asterión’ by Jorge Luis Borges.”

Presented By: Anayeli Chavez

Faculty Sponsor: Maria Echenique

Session III 2:15 - 3:05 p.m.

- College of Arts and Sciences | Political Science <https://uportland.zoom.us/j/8638792400>

“Accountability to the Public: A Look at the History of Congressional Punishment in the United States.”

This project is an exploration of the nature of congressional discipline over the years in order to determine whether or not members of Congress who were sympathetic to the January 6 insurrection might be able to be disciplined in meaningful ways.

Presented By: Meredith McMurray

Faculty Sponsors: Gary Malecha and Anne Santiago

- College of Arts and Sciences | Psychology <https://uportland.zoom.us/j/99517603792>

“Can the theoretical constructs of social and emotional learning predict changes in growth mindset outcomes for students attending an alternative high school?”

Presented By: Alannah Clay

Faculty Sponsor: Zach Simmons

“Does depression mediate self-esteem and substance abuse?”

Presented By: Shannan Yount

Faculty Sponsor: Zach Simmons

“Disordered eating in athletes and non-athletes.”

Presented By: Taryn Ries

Faculty Sponsor: Zach Simmons

“Journaling and self-identity in athletes and non-athletes.”

Presented By: Caitlin Kirk

Faculty Sponsor: Zach Simmons

- Pamplin School of Business

<https://uportland.zoom.us/j/92008523289>

“Zara: Marketing Research Report.”

Presented By: Bella Beaumont

Faculty Sponsor: Ian Parkman

- Shiley School of Engineering | Interdisciplinary

<https://uportland.zoom.us/j/97929718449>

“Senior Honors Project - Robotics.”

The NASA Robotics Mining Competition (RMC) encourages students all across the country to innovate in robotics to help astronauts survive in hostile, off-earth environments. This presentation will describe some of the challenges and accomplishments attempted by the University of Portland RMC team.

Presented By: Maxwell Parker

Faculty Sponsor: Ben Tribelhorn

“Senior Honors Project - Traffic Impact Analysis and the Crestview Drive extension in Newberg, Oregon.”

The Crestview Crossing is an important project in the city of Newberg, OR that involves connecting two existing major roads and installing a housing development. This project will go into detail about the analysis necessary to prepare such a project, as well as the design for the new development that our team worked for months to complete.

Presented By: Ben Slakey

Faculty Sponsor: Mojtaba Takallou

“Senior Honors Project - Marine Debris Detection and Capture Device.”

Working in a multi-disciplinary engineering team, this project addresses the global issue of plastic pollution from an innovative perspective. The scope of our work was to create a working device and detection software for individuals, volunteer and non-profit organizations that improves the efficiency and comfortability of manual litter cleanup efforts.

Presented By: Olivia Helinski

Faculty Sponsor: Jordyn Wolfand

Session III 2:15 - 3:05 p.m.

▪ School of Nursing

Click here to attend session

“Conversations Surrounding Diversity, Equity, and Inclusion (DEI) and Curriculum Building.”

We sit on the Curriculum Subcommittee of UPSON, and our objective is to create a tool that helps institutions foster curricula in which DEI are actively valued and taught. Our subcommittee needs to expand the voices we hear because diverse student input is vital for the integrity of this tool. Through this presentation, we hope to inspire other students to join us in our work.

Presented By: Chivon Ou and Arden McKown

Faculty Sponsors: Gordon Williamson, Kala Mayer, Sally Rothacker-Peyton, and Claire McKinley-Yoder

“Strategies to Improve Mental Health in Youth with ACEs.”

Adverse childhood experiences (ACEs) have a statistically significant correlation to adverse mental health outcomes. Lack of awareness and knowledge about ACEs and trauma-informed care is associated with inconsistent policies and practices that fail to promote optimal mental health. This project identifies various prevention strategies to improve mental health trajectories in youth with ACEs.

Presented By: Blair Barker, Julie Hamblin, Vanessa San Juan, and Bao-Chau Tieu

Faculty Sponsor: Claire McKinley-Yoder

▪ Collaborative for Int’l Studies & Global Outreach

<https://uportland.zoom.us/j/93760692466>

The Sojourner Scholars Portfolio presentation highlights the ways the Sojourner Scholar demonstrates the highest level of the University’s Global and Intercultural Learning Outcomes.

“One Hundred Thirty Days.”

Presented By: Jenn Trohan

Faculty Sponsor: Eduardo Contreras

“Mi experiencia como una Bilingual Female Ally.”

Presented By: Madison Lindell

Faculty Sponsor: Eduardo Contreras

“Intercultural Kaleidoscope.”

Presented By: Sarah Maxine Larson

Faculty Sponsor: Eduardo Contreras

“Connecting to My Multi Cultural Background by Going Abroad.”

Presented By: Rachel Hu

Faculty Sponsor: Eduardo Contreras

▪ Franz Center

<https://uportland.zoom.us/j/99331640013>

“Annual Founders’ Day Elevator Pitch.” (Group A)

Open to all students who would like to present their 90-second “pitch” for a company, a not-for-profit, a technology, or a product. The audience will select the best pitch, and you don’t have to pitch to be part of the audience. The winner receives a \$100 gift card.

Presented By: Guyanna Bedington, Maggie Blommer, Daniel Rodriguez-Pena, Nick Robinson, Sebastian Adams, Quinn Anderson, Riley Farrell, Brandi Tkel, Chris Bates, Joey Bacon, Cameron Lyons, Dennis Pham, Edward J. Murphy, Emily DeMots, Ethan Connaughton, Andrew Bitrous, Annie Smith, Batara Siahaan, Justine Phan, Allyzza May Cortez, and Anika Cathcart

Faculty Sponsor: Kay Molkentin

▪ Franz Center

<https://uportland.zoom.us/j/98727350167>

“Annual Founders’ Day Elevator Pitch.” (Group B)

Open to all students who would like to present their 90-second “pitch” for a company, a not-for-profit, a technology, or a product. The audience will select the best pitch, and you don’t have to pitch to be part of the audience. The winner receives a \$100 gift card.

Presented By: Kayla Benson, Grant Nelson, Ben Messerly, Austin Tshako, Kevin Cochran, Jarrett Tapella, Lisa Brown, Emma Smith, Jensen Crisler, Jacob Noble, Thomas Kelly, Kaleb Bang, Pete Allegro, Sam Ulum, Tessa Rodgers, Hunter Hall, Marc Ugas, Georgia Sutjiadi, Olivia Brimhall, Lauren Kenny, and Jimmy Rosenberger

Faculty Sponsor: Jon Down

Session IV 3:15 - 4:05 p.m.

- College of Arts and Sciences | Communication Studies <https://uportland.zoom.us/j/99860639357>

“University of Portland Speech and Debate Union Debate Exhibition.”

The University of Portland Speech and Debate Union will conduct a Facilitated Debate Exhibition on Student Loan Debt Forgiveness. This exhibition will employ a new form of collegiate debate using a peer facilitator to help guide and enhance the exchange of ideas discussed among the participants.

Presented By: Sydney Reid and William Heyler

Faculty Sponsor: Bohn Lattin

- College of Arts and Sciences | International Languages and Cultures

<https://uportland.zoom.us/j/96704211686>

“Analysis and interpretation of ‘El hombre muerto’ by Horacio Quiroga.”

Presented By: Jade Cornaby

Faculty Sponsor: Maria Echenique

“Analysis and interpretation of ‘La muerte del tigre’ by Rosario Castellanos.”

Presented By: Nicholas Rocha

Faculty Sponsor: Maria Echenique

“Personal narrative inspired by ‘Once’ a short story by Sandra Cisneros.”

Presented By: Katherine Tolcher

Faculty Sponsor: Maria Echenique

“Analysis and interpretation of ‘Once’ a short story by Sandra Cisneros.”

Presented By: Daniel Rodriguez-Pena

Faculty Sponsor: Maria Echenique

- College of Arts and Sciences | Psychology

<https://uportland.zoom.us/j/93363358706>

“Who is susceptible: possible predictors of the illusion of transparency.”

Presented By: Rachel Horning

Faculty Sponsor: Zach Simmons

“The impact of COVID-19 reflections on commitment to engaging in pro-environmental behavior.”

Presented By: Jasmine Fehr

Faculty Sponsor: Zach Simmons

“The impact of self-efficacy and social pressure on pro-environmental behavior intention.”

Presented By: Maya Sellier

Faculty Sponsor: Zach Simmons

“Effect of mobility and instability on offset of infantile amnesia.”

Presented By: Grace Tester

Faculty Sponsor: Zach Simmons

- Pamplin School of Business

<https://uportland.zoom.us/j/92899674816>

“What is IMA?”

Presented By: Cameron Beillard

Faculty Sponsor: Cecilia Lin

“Beta Alpha Psi & the University of Portland Accounting Association.”

Presented By: Jacob Bawden

Faculty Sponsor: Cecilia Lin

Session IV 3:15 - 4:05 p.m.

- Shiley School of Engineering | Interdisciplinary

“Electric Vehicle Grand Prix (evGP) Competition.”

Presented By: Kevin Henderson

<https://uportland.zoom.us/j/93593530817>

Faculty Sponsor: Gregg Meyer

“Robotics.”

Presented By: Chloe Gan

Faculty Sponsor: Ben Tribelhorn

“Anti-Virus Interference Design.”

Presented By: Ben Pirkel

Faculty Sponsor: Andrew Nuxoll

“Project Letterboard.”

Presented By: Haley Diment

Faculty Sponsor: Joseph Hoffbeck

POSTER PRESENTATIONS | 10:15 - 11:05 a.m. | upfoundersday2021.virtualpostersession.org

- College of Arts and Sciences | Biology

“Investigating the physiological effects of chronic heart failure and coronary artery disease on the heart, abdominal aorta, and peripheral blood vessels.”

Presented By: Brienne Pfeifer

Faculty Sponsor: John White

“Intergenerational Nurturance: Epigenetic Modification of the Oxytocin Receptor in Biologically Related Grandmother-Mother-Infant Triads.”

Presented By: Val Truong

Faculty Sponsors: Sarina Saturn and Susan Murray

- College of Arts and Sciences | Chemistry

“Pigment and Ink Analysis of University of Portland Library’s Illuminated Manuscripts using Spectroscopic Techniques.”

Presented By: Bryan Hunter and Micha Blake *Faculty Sponsors: Valerie Walters, Philip Vue, and Christina Prucha*

“Antibacterial and Anti-Pathogenic Activity of extracts from Soil Organisms from an Archaeological Site.”

Presented By: Alyssa Snyder and Jonathan Nguyen

Faculty Sponsor: Sr. Angela Hoffman, O.S.B.

“Analysis of antibacterial and anticancer properties of compounds produced by different Actinomycete bacteria isolated from an ancient Roman gravesite.”

Presented By: Caitlyn Hott and Philip Lee

Faculty Sponsor: Sr. Angela Hoffman, O.S.B.

- College of Arts and Sciences | Physics

“How Random Are Quantum Random Numbers?”

Presented By: Kaylin Ingalls, John Kavulich, and Nicholas Salinas

Faculty Sponsor: Maximilian Schlosshauer

▪ College of Arts and Sciences | Psychology

“How COVID-19 has Reshaped the Asian American/Pacific Islander (AAPI) Experience and How AAPI-Serving Organizations Have Adapted.”

Presented By: Aaron Rosel

Faculty Sponsor: Sarina Saturn

“Mentoring Programs to Promote Wellbeing in Children.”

Presented By: Jacob Ward

Faculty Sponsor: Sarina Saturn

“Exploring Misinformation in Media.”

Presented By: Emma Finney, Heather Mar, and Erin Melcher

Faculty Sponsor: Deana Julka

“Effects of online learning due to covid-19 on children’s educational development.”

Presented By: Keely McCormick, Lily Shove, and Zay Lingo

Faculty Sponsor: Deana Julka

“Identity Navigation of Multicultural Persons.”

Presented By: Nataliya Apa, Trenton Birch, and Elisha Faagai

Faculty Sponsor: Deana Julka

“The Mental and Emotional Impact of COVID-19 on College Students.”

Presented By: Hannah Green and Jennifer Payne

Faculty Sponsor: Deana Julka

“COVID-19 Impacts on Dreams.”

Presented By: Taylor Jacobson, Tashi Shalung, and Michael Thress

Faculty Sponsor: Deana Julka

“An Analysis of Moral Judgement and Engagement Within Film.”

Presented By: Patrick Boldt, Calvin See, and Daniel Smith

Faculty Sponsor: Deana Julka

“Exploring perceptions of cannabis use on quality of sleep.”

Presented By: Berenice Pantoja and Monica Vargas-Moreno

Faculty Sponsor: Deana Julka

“Sleep Deprivation in College Students: Effects on Cognitive Function.”

Presented By: Sabrina Arquieta, Perry Jensen, and Samantha Walsh

Faculty Sponsor: Deana Julka

“The Cost of Neutrality Among Friends in Political Conflicts.”

Presented By: Gabe Happ-Shine, Elaine Shaw, Kristen Uskovich, and Alyssa Snyder

Faculty Sponsor: Deana Julka

“Creating During COVID: The Effects of the Pandemic on Art Therapy.”

Presented By: Maria Spong

Faculty Sponsor: Sarina Saturn

“Education and Literacy’s Adaptation during the COVID-19 pandemic.”

Presented By: Nick Chun

Faculty Sponsor: Sarina Saturn

“Second Wind for Student-Athletes in the Pandemic at UP.”

Presented By: Dustin Kua

Faculty Sponsor: Sarina Saturn

▪ School of Education

“Fostering Students’ Social Emotional Learning in the Hybrid Learning Environment.”

Presented By: Allie Haakenson, Anna Wanner, Claire Nelson, and Ellie Cordova

Faculty Sponsor: Hillary Merk

“Talking with Children about Death: Ethics and Children’s Literature.”

Presented By: Hailey Colman

Faculty Sponsor: Katie Danielson

▪ College of Arts and Sciences | Biology

“Using DNA barcoding to examine the effects of increased air temperature on tidal flat species diversity.”

Presented By: Ethan McAnally

Faculty Sponsor: Christine Weilhofer

▪ College of Arts and Sciences | Physics

“Morphology and Interface Engineering in Solution-Processed Composites for New Energy Storage Materials.”

Presented By: Khoulood Aldura and Jake Uyechi

Faculty Sponsor: Nelson Coates

▪ College of Arts and Sciences | Psychology

“Healthcare Policy Recommendations for BIPOC Communities.”

Presented By: Mary Grace Tiglao

Faculty Sponsor: Sarina Saturn

“Basic Rights Oregon: Motivations for Working with the LGBTQ+ Community.”

Presented By: Sheryl Ann Tomas

Faculty Sponsor: Sarina Saturn

“Diversity Checkup: A Study of Multicultural Medicine.”

Presented By: Jordan Hammock

Faculty Sponsor: Sarina Saturn

“Active Minds: A Study of Intersectional Mental Health at UP.”

Presented By: Max Oishi

Faculty Sponsor: Sarina Saturn

“Altruistic Cosplay: A Study on the Mental Health Benefits of Being an A Moment of Magic Character Volunteer.”

Presented By: Meika Stites

Faculty Sponsor: Sarina Saturn

“Psychedelics and Psychotherapy: A Quantitative Report on Benefits of Alternative Medicine.”

Presented By: True Overlie

Faculty Sponsor: Sarina Saturn

“The First Generation Experience at UP During COVID-19.”

Presented By: Gabi DiPaulo

Faculty Sponsor: Sarina Saturn

“Examining Psychosocial Risk Factors in the Novel Interventions in Children’s Healthcare Program.”

Presented By: Jack Swinkels

Faculty Sponsor: Sarina Saturn

“Promotores de Salud: Accessible Healthcare Resources for the Latinx Community in Portland.”

Presented By: Andre Jaurigui

Faculty Sponsor: Sarina Saturn

“The Power of a Seed: A Study on how Tower Gardens Transform the Lives of Children.”

Presented By: Abigail Kassa

Faculty Sponsor: Sarina Saturn

“Trauma-Informed Resilience Practices to Promote Healing Through the Support of Volunteers.”

Presented By: Bridget Cope

Faculty Sponsor: Sarina Saturn

“A Study of the Mental Health of Previous Gang Members and their Mentors.”

Presented By: Cristina López

Faculty Sponsor: Sarina Saturn

▪ College of Arts and Sciences | Psychology

“It’s On Everyone: Intersectionality in Community-Centered & Intergenerational Healing.”

Presented By: Carolina Cortes

Faculty Sponsor: Sarina Saturn

“Through Their Eyes: A Study on the People of Guam and How COVID-19 Shifted Their Lives.”

Presented By: Gayle Dahilig

Faculty Sponsor: Sarina Saturn

“Connecting With Our Elders: Outreach and Resources for LGBTQI+ Seniors at the Q Center.”

Presented By: Siena Falzon

Faculty Sponsor: Sarina Saturn

▪ College of Arts and Sciences | Sociology

“Data Disaggregation Reveals Disproportionate COVID-19 Risk for Filipinos.”

Presented By: Jordan Marquez

Faculty Sponsor: Martin Monto

▪ Pamplin School of Business

“A bird’s eye view on carbon emissions from the Eagle Creek Fire.”

Presented By: Spencer Moffat

Faculty Sponsors: Ruth Dittrich and Kristin Sweeney

▪ School of Education

“Fostering Safe and Respectful Learning Environments in a Virtual Setting.”

Presented By: Katarina Veliz, Alexis Henderson, Rylee Seekins, Marissa Yliniemi, Kali Tagomori-Lai, and Josie Matz

Faculty Sponsor: Hillary Merk

“Building relationships in online learning.”

Presented By: Nicole Baer, Sydney Fritz, and Penny Dierich

Faculty Sponsor: Hillary Merk

▪ School of Nursing

“Impact of Yoga as an Adjunctive Therapy on Symptoms of Depression.”

Presented By: Ava Yee, Isabel Zamora, Sara Anderson, and Ali Venneberg *Faculty Sponsor: Chloe Littzen-Brown*

“Inclusion of Physical Activity in National Nurse Practitioner Curricula.”

Presented By: Meg Bender-Stephanski

Faculty Sponsor: Amber Vermeesch

“Standardizing Restraint Removal Practice in an Inpatient Psychiatric Setting: An Evidence-Based Analysis.”

Presented By: Karli Baumbach, Suzie Geisler, Emily Hargett, and Kaelin Horton

Faculty Sponsor: Kristine Harrington

“Helping Kids be Kids: Remote Pediatric Reading Platform Created During the Pandemic.”

Presented By: Michelle Barton and Jennifer Kepler

Faculty Sponsor: Barb Braband

“Wound Dressings for Post-Operative Incision Wounds.”

Presented By: Julia Laggren, Kate Hamburg, Anna Hoff, and Kendra Dickey *Faculty Sponsor: Kristine Harrington*

“Strategies to Improve Mental Health in Youth with ACES.”

Presented By: Blair Barker, Julie Hamblin, Vanessa San Juan, and Bao-Chau Tieu

Faculty Sponsor: Claire McKinley-Yoder

▪ College of Arts and Sciences | Biology

“Seasonal Lepidoptera Diversity in Urban Portland.”

Presented By: Georgia Paulk

Faculty Sponsor: Tara Prestholdt

▪ College of Arts and Sciences | Chemistry

“Electronic Spectra of Cyanine Dyes.”

Presented By: Emma Snodgrass, Tori Zottarelli, and Brytney Young

Faculty Sponsor: Steven Mayer

“Ro-vibrational spectroscopy of HCl and DCl.”

Presented By: Bao Huynh and Michelle Rodriguez

Faculty Sponsor: Steven Mayer

“Interferometry, Orthogonality & Superposition.”

Presented By: Elizabeth Gushtyuk and Lily Gunning

Faculty Sponsor: Steven Mayer

“The Greenhouse Gas Effect and Blackbody Radiation.”

Presented By: Emily Koziczkowski and Aubrey Putansu

Faculty Sponsor: Paige Hall

“Rotovibrational Spectroscopy of HCl/DCl.”

Presented By: Quinn Burdick and Anna Shyne

Faculty Sponsor: Paige Hall

“Density Functional Theory Study of Conjugated Dyes.”

Presented By: Henry Prentice and Ryan Dexheimer

Faculty Sponsor: Paige Hall

“Vibronic Spectrum of I₂.”

Presented By: Seth Arakawa, Zhanna Bachinsky, and Daniel Bracho

Faculty Sponsor: Steven Mayer

“Interferometry, orthogonality, and superposition of lasers and beams.”

Presented By: Zachary Pitcher and Mel Mwawai

Faculty Sponsor: Paige Hall

▪ College of Arts and Sciences | Biology

“Environmental factors affecting toxin levels in milkweed.”

Presented By: Jennifer Ng

Faculty Sponsor: Laurie Dizney

▪ College of Arts and Sciences | Chemistry

“Growth analysis and antibiotic activity of bacteria isolated from ancient bronze dishes.”

Presented By: Alysha Naone

Faculty Sponsor: Sr. Angela Hoffman, O.S.B.

“Elemental Analysis of Human Remains from Necropolises at the Pollentia Site: Implications of High Levels of Lead and Trace Elements.”

Presented By: Anya Forma, Emily May, and Tristan Low

Faculty Sponsor: Ronda Bard

“The Basics to Discovering Antibiotics from soil bacteria.”

Presented By: Hoyt Bright

Faculty Sponsor: Sr. Angela Hoffman, O.S.B.

“Structural and electrochemical studies of 2,5-bis-phosphoryl-3,6-dihydroxy-1,4-quinone compounds.”

Presented By: Alea Ha

Faculty Sponsors: Eugene Urnezis and Edward Valente

▪ Shiley School of Engineering | Civil Engineering

“Water Supply and Wildfire Risk: Where Are the Priority Areas for Forest Restoration in Oregon.”

Presented By: Sahas Sok

Faculty Sponsor: Jordyn Wolfand

“Identifying Factors Impacting Water Quality in the Los Angeles River Watershed using Supervised Machine Learning.”

Presented By: Anna Tinoco

Faculty Sponsor: Jordyn Wolfand

“Occurrence of Microplastics in Portland Stormwater.”

Presented By: Kerigan Bermami, Elizabeth Diaz-Gunning, Mary Kathryn Stone, and Olivia Helinski

Faculty Sponsor: Jordyn Wolfand

“Impact of Age and Type of Bioretention on Water Quality.”

Presented By: Troy Membrere and Jared Miyasato

Faculty Sponsor: Cara Poor

“Evaluation of a Green Roof Rehabilitation Method using Water Treatment Residuals.”

Presented By: Nick Kanno

Faculty Sponsor: Cara Poor

▪ Shiley School of Engineering | Electrical Engineering

“Repetitive Transcranial Magnetic Stimulation (rTMS) Treatment Trends in Patients with PTSD.”

Presented By: Erik Liu

Faculty Sponsor: Shaghayegh Abbasi

▪ Shiley School of Engineering | Mechanical Engineering

“Wearable Assistive Technology for the Suppression of Parkinsonian Hand Tremor.”

Presented By: Sam Winston and Riley Dehmer

Faculty Sponsor: Tim Doughty

