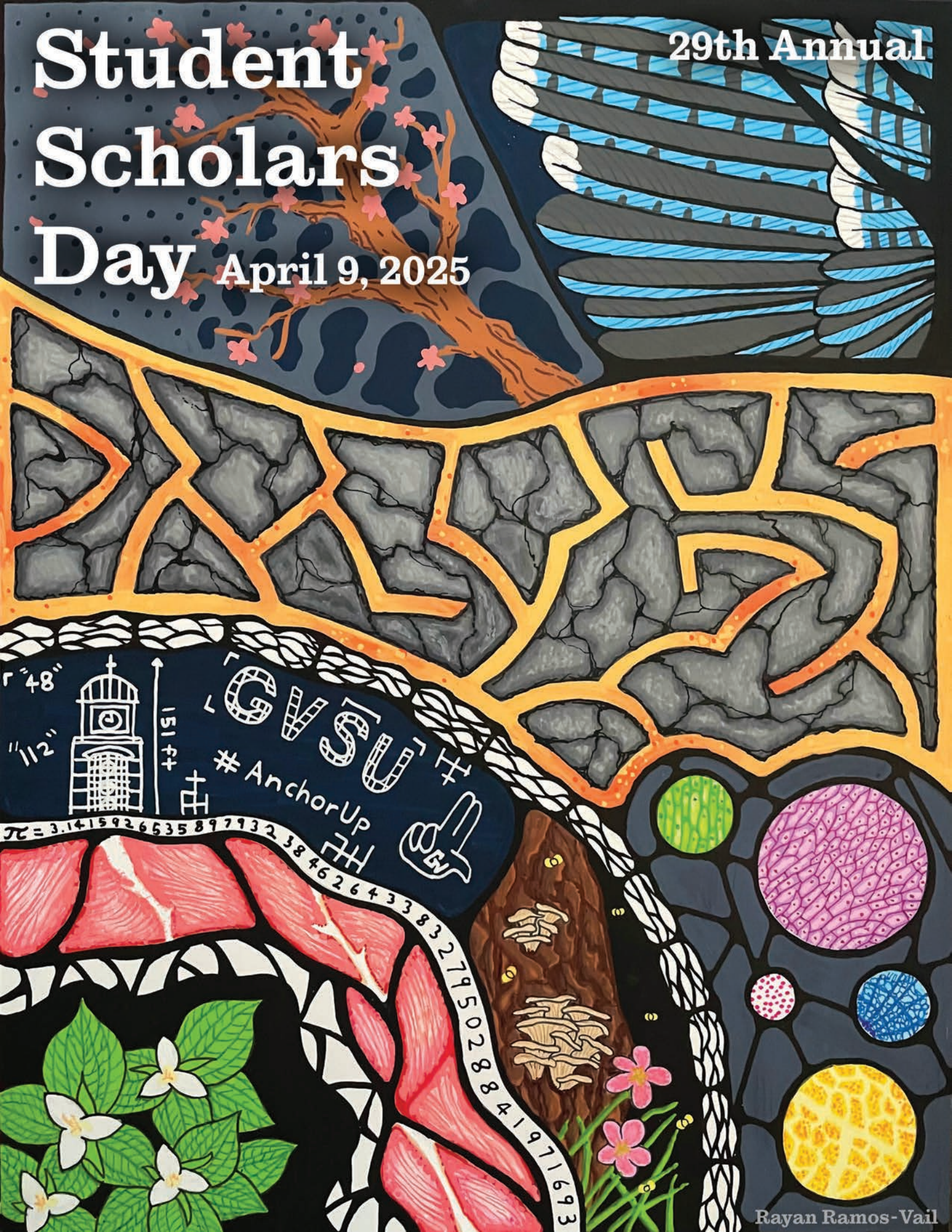


Student Scholars Day

April 9, 2025

29th Annual





Cover Artist

Rayan Ramos-Vail

General Business major, 2027

Artist Statement:



Blue Jay Feathers

Blue jays have fascinated me for as long as I can remember, especially from my childhood when I would spot them in my neighborhood. I decided to draw the wing of a blue jay because the fact that they aren't actually blue but appear so due to light reflecting off their feathers has always stuck with me. If it weren't for research, we might never have learned this detail.



Magma and Rocks

This drawing was inspired by my GEO class on ocean studies during my first year at GVSU. I was amazed by the balance of nature, particularly the movements beneath the earth's surface. The way the earth's mantle shifts—creating, destroying, and shifting land—left a lasting impression on me, and I wanted to capture these concepts through my artwork.



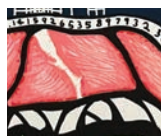
Trillium Grandiflorum, Nature, and Cells

The white flowers in my drawing are Trillium *grandiflorum*, chosen to represent one of my favorite hobbies, gardening, as well as Michigan's native flower. These flowers were also inspired by my first-year biology class, where we studied various plants.

My biology class sparked the idea for the environment depicted in the second image, featuring flowers, mushrooms, a tree, and fireflies. I wanted to highlight this often-overlooked natural world, showing that when we take a closer look, we can uncover important details, just as research helps us do.



One particularly memorable lecture in biology focused on plant cells and their structures, which inspired me to incorporate drawings of different cells: an onion (purple), a Tilia stem (blue), a blood cell (red/fuchsia), plant tissue (green), and a leaf (orange/yellow).



Muscles

Though anatomy has never been one of my talents, seeing my sister discuss the subject brought back memories and recognition of this field of study. I decided to draw muscles to represent the study of anatomy, in recognition of the various hours and years it took for us to develop technology and to understand not only the human body but other organisms as well.



Architecture, Math, and GVSU Pride

To incorporate other academic subjects and showcase some GVSU pride, I chose the Cook Carillon Tower as the focal point of my drawing, as it perfectly represents both architecture and mathematics. I depicted the tower in a blueprint-style format to highlight its architectural design. I also decided to add in the measurement of the tower (151ft), number of steps (112 steps), and how many bells it had (48 bells).

Beneath the blueprint, I featured the mathematical constant pi, along with the geometric shape of the GVSU logo, as a nod to the math element. To express my GVSU pride, I added the university's symbol, "Anchor Up," and included the acronym GVSU within the blueprint design.



Pink Blossom Tree

The pink blossom tree is an acknowledgement of the trees that bloom on the Allendale campus in the spring. I have memories of walking around campus, often stopping to admire these trees. This artwork also draws inspiration from another personal piece I created in the past.

Other

Each element of the artwork was carefully crafted to create the smoothest transition between images. This reflects my style of drawing, where I'm not satisfied with just one single image but prefer creating an artful collage. I believe this piece successfully achieves that vision.



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“Establishing comprehensive services and programs which support students in their pursuit of inquiry, creativity, scholarship, and research.”



Office of Undergraduate Research and Scholarship
230 Mary Idema Pew Library
1 Campus Drive
Allendale, MI 49401

E-mail: ours@gvsu.edu
Phone: 616-331-8100

Business Hours: Monday-Friday, 8:00 a.m. - 5:00 PM



Welcome to SSD 2025: Redefining Boundaries

The Center for Undergraduate Scholar Engagement, the Office of Undergraduate Research and Scholarship (OURS), and the Student Scholars Day Planning Committee are thrilled to welcome you to the 29th annual Student Scholars Day conference. This year's theme, Redefining Boundaries: AI and the Evolution of Science, Tech, and Culture, invites us to examine how artificial intelligence is reshaping knowledge, creativity, and truth itself.

As AI becomes increasingly embedded in our daily lives, it raises profound questions—Who controls the data? Are we educating students to use AI well (in shaping queries for AI, in analyzing results of AI productions)? How do algorithms shape cultural narratives? What are the ethical implications of automated decision-making? What is the future of work in the era of AI? SSD 2025 provides a space for students to explore these critical questions while showcasing diverse scholarly and creative work across disciplines.

A day like this would not be possible without the dedication and hard work of many individuals. We express our deepest gratitude to the SSD Faculty Committee for their commitment, creativity, and support in organizing this event. A special thank you goes to our faculty mentors, whose guidance and collaboration make transformative research experiences possible for our students. We also appreciate the students, faculty, and staff volunteers who contribute their time and energy to ensuring the success of SSD. And, of course, we celebrate our student presenters, whose curiosity, dedication, and intellectual risk-taking embody the spirit of scholarship at Grand Valley.

Whether you are presenting research, sharing a creative project, or engaging as an audience member, we encourage you to challenge assumptions, push disciplinary boundaries, and contribute to a vibrant exchange of ideas.

Thank you for being part of this dynamic exploration. We look forward to an inspiring day of scholarship, discovery, and dialogue.

Welcome to Student Scholars Day 2025!

Susan Mendoza, Ph.D
Director, Center for Undergraduate Scholar Engagement
Chair, Student Scholars Day Planning Committee



History of Student Scholars Day

In the summer of 1995, faculty in the Science and Mathematics Division explored creating an event for students to present faculty-mentored research to a university-wide audience. With enthusiastic support from Dean P. Douglas Kindschi, Student Research Day (SRD) was born.

The inaugural SRD took place on April 12, 1996, alongside the dedication of the Seymour and Esther Padnos Hall of Science. Initially expecting 30 participants, the event drew over 150 students presenting nearly 100 projects. The overwhelming success raised questions about its sustainability as a stand-alone event, but the second SRD in April 1997 proved equally successful. Demand grew beyond science and mathematics, prompting efforts to make the event university-wide, supported by then-Provost Glenn Niemeyer.

To reflect its expanded inclusivity, the event was renamed Student Scholarship Day in 1998. That year, participation doubled, with nearly 300 students delivering almost 200 presentations. The first keynote speaker, Dr. Robert Powell of Avila College, spoke on "Student/Faculty Collaboration: Teaching and Scholarship." In Fall 2009, another name change to Student Scholars Day (SSD) clarified the event's purpose.

Originally focused on science and mathematics, SSD now showcases work from all disciplines, celebrating student scholarship across the university. The event fosters interdisciplinary collaboration, offering both individual focus and a broader picture of collective learning. The GVSU community continues to embrace SSD as an annual celebration of student achievement.



SSD Planning Committee

Feryal Alayont, Mathematics
René Ardila, Mathematics
Dantya Jennings, Center for Undergraduate Scholar Engagement
Andy Lantz, Chemistry
Jakia Marie, School of Interdisciplinary Studies
Susan Mendoza, Center for Undergraduate Scholar Engagement
Michael Scantlebury, Hospitality and Tourism Management
Shelley Sickrey, Office of the Vice Provost for Research
Isaac Simon, Speech Lab
Mary Ruge, University Libraries
Glenn Valdez, Psychology
Rich Vallery, Physics
Todd Williams, Psychology



History of Undergraduate Research and Scholarship at GVSU

The pursuit of student research and scholarship at Grand Valley has deep roots in the history of the university. Original student research began in a number of the original Colleges at GVSU: Thomas Jefferson College, William James College, and the College of Arts and Science. This tradition continued through decades as the university grew.

Student Scholars Day (SSD) and Student Summer Scholars (S3), originally established in the Division of Math and Science, have served as the anchors for undergraduate research for over twenty years. These programs have served thousands of students by encouraging original research and scholarship.

SSD and S3 moved to the Brooks College of Interdisciplinary Studies and became part of the Office of Integrative Learning in 2006. During this time, both programs were expanded to support student research from all disciplines and majors.

In 2010, the Office of Undergraduate Research and Scholarship (OURS) was established as part of the Center for Scholarly and Creative Excellence. The mission and intent of the office is to establish comprehensive services and programs which support students in their pursuit of inquiry, creativity, scholarship, and research. In addition to Student Scholars Day, the programs of OURS include:

Scholar & Fellowship Programs

- Alayont Undergraduate Research Fellowship in Mathematics
- GVSU Library Scholars Summer Program
- P. Douglas Kindschi Undergraduate Research Fellowship in the Sciences
- Student Summer Scholars (S3) / Modified Student Summer Scholars (MS3)

Research Support & Recognition

- Academic Conference Fund (ACF)
- Academic and Professional Enrichment Fund (APEF)
- OURS Project Supplies Grant
- GVSU Undergraduate Research/Creative Scholar Transcript Designation
- Undergraduate Research Assistants Program (URA)

Outreach Programs & Events

- Student Scholars Day
- Chalk Art Symposium
- OURS Ambassadors
- Summer Research Orientation
- Undergraduate Research Fair



Types of Student Scholars Day Presentations

Poster Presentation: Poster presentations provide a common way to present information in classrooms, conferences, and workshops. The goal is to highlight the significance and originality of the work, showcasing the contributions of the presenter(s).

Oral Presentation: Oral presentations are a condensed version of a specific topic delivered to impart knowledge and stimulate discussion with the audience.

Recorded Presentation: A recorded oral presentation is a pre-recorded video where a speaker delivers a presentation, typically using slides, which can be watched later by an audience.

Podcast Presentation: A podcast is a digital audio program designed to share ideas, stories, or information in an accessible and engaging way. A podcast can feature narratives, expert commentary, or interviews, offering an easy yet powerful platform to bring research to life and engage with listeners beyond the classroom or lab.

Mini-Zines Presentation: Mini-zines are a great way to present scholarship to people unfamiliar with the subject because it is less intimidating than a full length research paper.



How to Engage with Presentation Abstracts

Scan the QR code

Every presentation is accompanied by an abstract. You can access the abstract in two ways: through the QR code for the SSD Schedule Builder or through the SSD website. The abstract will tell you what the presentation is about, who is presenting, when the presentation occurs, where the presentation is located and the name of the presenter's mentor.



Abstracts in PDF

Use the Abstracts to Build your Schedule

We encourage attendees to read through the abstracts to identify presentations to visit (if a poster) or attend (if in-person) – you may find presentations available on topics of interest that you didn't anticipate! Be curious! Explore new topics – students will appreciate your interest. They will continue to learn and grow through sharing their knowledge with you.



SSD Schedule Builder



How To Engage with Presentations

Provide Feedback

Every presentation has been assigned a QR code to facilitate feedback for the presenters from attendees. We encourage attendees to fill out the questionnaire to point out strengths within the presentation and suggest improvements for the future, any feedback is helpful.

Ask Questions

Ask presenters questions about their presentation in order to engage with their research. After oral presentations, there will be a time for questions, so use this time to engage in discussion.

Make Connections

Network with the presenter post-presentation. After the session, approach the presenter to discuss their research in more detail, share your insights, or ask for clarification on specific points that piqued your interest.



Exhibitions of Art

Michael Bair: Metals and Jewelry

Artist: Ben DeGram

Title: Nautical Ring & Reliquary Project

Artist Statement: This piece was inspired by the aesthetic of steampunk and aquatic steampunk. It is an aesthetic that is commonly seen in forms of media and the complexity and unique machinery that it contains has always been quite interesting to me. As this class was really my first exploration metalsmithing, I thought it would fun to challenge myself with representing such a complex look. This project and the over 30 hours I spent working on it were certainly difficult at times, but it is something I continue to reflect proudly upon as it gives me the confidence going forward to embrace the challenge.

Bill Hosterman: Drawing Printmaking, and Foundations

Artists: Lara Hinze, Grace Bugajski, Ellie Bolster, Dawn Leach, Natalie Malbone, Jenny Perris, Kyah Taylor, Jayden White, KaQui Wright

Robin Kane-HaberKorn: Metals and Jewelry

Artist: Kelsey Meadows

Title: Actaeon canibus suis necat

Artist Statement: As a classics student, I am most interested in how ancient stories have continued to be interpreted through art by modern and historic peoples alike. The story my pendant tells is from the Roman poet Ovid's Metamorphoses, an epic poem on transformations which many medieval authors reinterpreted into allegory. With my piece I hope to, as Ovid may say, simulate a story from antiquity in medieval illustrative style to honor the fluidity between storytelling and the arts, the past and the present.

Megan Kellner: Foundations

Artist: Mattee DeMott

Title: Bug Girl, Bug World

Artist Statement: When it came to creating this work, it was a process of exploration. Diving into the indirect painting process, I knew it would lend itself to the concept of glorification. To raise up a topic to be accentuated and highlighted and give it conscientious love and care that I believe it deserves. Indirect paintings slowly built layers allowed for the thin accumulation of paint, turning the insects, I have come to admire, into shimmering jewels. These bugs were forms I had admired throughout my entire life and ones I had often seen neglected and disregarded. I found the common disgust most individuals held for insects to be misrepresentative of their beauty and importance to our planet. This misrepresentation led me to develop a significant connection to them, as I have often felt misrepresented. Specifically, these bugs are ones I have found myself interested in both aesthetically and entomologically. In the case of the cetonia aurata, both for its shiny green color and its negative reputation as a pest among gardeners, it became a clear choice for subject matter. Historically jewel tones were often utilized to accentuate the value and luxury of an item, thus the natural colors of these three beetles could only assist further, in the process of their rightful glorification. My goal was to shine the light I believe they deserve upon them, elevating the insignificant lifeforms many find to be repulsive. This triptych works together to show off the hidden beauty of bugs.



Exhibitions of Art

Artist: Carly Richmond

Title: The Weight of America

Artist Statement: As I cultivate my artistic style and voice, I find that art can serve as a powerful medium for expressing my thoughts about the world. Art has the potential to change perspectives, inspire new ideas and encourage others to reflect on what they are experiencing. As I reflect on the flaws of the American government, I think about the misrepresentation of people, false accusations, and the egocentric bias present in the system; which lead me to consider Lady Justice and the idea of America calling itself the "Land of the Free" or "Justice for All." Lady Justice is intended to symbolize the impartial treatment of all individuals and to represent a fair and just legal system. However, how can we say this is true when there is a lack of inclusion and diversity that leads government officials to be biased?

Hoon Lee: Ceramics

Artist: Sophia Nelson

Title: Untitled

Artist: Christy Prater

Title: Fossilized Stitches

Artist: Paige Voss

Title: Vases

Artist: Rebecca Boerma

Title: Pain Monsters: Beneath the Skin

Artist: Claire Emmert

Title: Punctured Paths

Artist: Alaina Smith

Title: Root & Vessel

Vinicius Lima: Graphic Design

Artists: Rebekah Bleyenberg, Drew Caminata, Emma Wolverton, James Helm, Maggie McKeiver

Natalie Lowe: Metal and Jewelry

Artist: Maryn Butki

Title: Queen Bee

Artist Statement: Queen Bee is a cast bronze sculpture composed of found objects tied to femininity fragments of hairbrushes, face razors, q-tips, and sunglasses. These everyday items, often overlooked, speak to the rituals, expectations, and labor of womanhood. Through metal casting, I transform these disposable, intimate objects into something permanent and powerful, questioning the ways in which beauty standards and consumer culture shape female identity. Queen Bee symbolizes resilience, autonomy, and the weight of societal expectations, reclaiming these tools of femininity as emblems of strength rather than obligation.

Maureen Nollette: Studio Art Foundation

Artists: Taelia Spencer, Jake Teresi, Victoria Sunderlin, Audrey Edwards, Giang Nguyen



Exhibitions of Art

Kristin Reeves: Visual Studio Fundamentals

Artists: Yadira Duran, Phaige Lothschutz

Max Spitzer: Foundations

Artists: Emmett O'Malley, Aria Thomas

Paige Young: Photography

Title: Test Strips

Artist Statement: Beauty is present in the process. This work embodies tireless hours spent in the dark, bathing strips of photo paper in chemicals to ensure the final prints they belong to turn out just right. I wanted to depict the repetition and loss of sanity when time fades to oblivion, an inevitable phenomenon in the process of darkroom photography.

Artist: Allison Taiariol

Title: From The Eyes That Lie

Artist Statement: In my photography, I explore the internal, often invisible battles of those struggling with eating disorders. My intention is to capture the raw, emotional weight of identity loss and mental struggle that comes with eating disorders. The absence of faces in my work is intentional as a reflection of the feeling of being unidentifiable to yourself often felt by those who struggle with this. - My photographs speak to the mental struggle that isn't visible in a mirror but exists in the spaces between thought and action. - Through my work, I seek to shed light on this isolation, to give voice to a story that many feel they can't share. My goal is to invite empathy and understanding and help others that may be going through this.

Renee Zettle-Sterling: Metals and Jewelry

Artist: Natalie Andrikides

Title: i want to hold your hand

Artist Statement: These rings are meant to be a physical representation of the fear of intimacy. I wanted to explore how our best efforts to keep ourselves safe from others can make us the one who causes and feels harm in the end. Using inspiration from medieval torture devices, this set is designed to prevent the wearer from holding another person's hand. While there are still ways to hold hands while wearing these, it will only hurt both people the longer they hold on.

Artist: Enrique Arana

Title: Untitled

Artist Statement: My intent with jewelry is to create commentary for myself and on issues the world ought to pay more attention to. Being direct has its benefits, yet so does simplicity. Issues internal and external can be boiled down to relationships within and outside ourselves. Jewelry is the embodiment of this. While I was unable to play with the material medium of the set of rings in a way that further supported my commentary, it was important I still commented on more precise damages of human environmental ignorance and dismissal in a narrative manner.

Artist: Morgan Davis

Title: Immodest Modesty

Artist Statement: Head coverings have been a traditional part of Abrahamic and Non-Abrahamic religions for centuries. It was required to wear them to any sort of church service or ceremony until more recently. Though, there are still religions that require this practice. Head Coverings has a huge part in Purity/Modesty Cultures that are commonly seen in various types of churches. They're a tool for protecting one's modesty, and to shield the wearer from vanity and pride. To contrast this, I decided to create a piece that goes against Christian Purity Culture by covering my head in something that would draw as much attention as possibly.



Exhibitions of Art

Artist: Sofia Grilley

Title: Mermaid Charm Necklace

Artist Statement: This piece is a charm necklace made of cast bronze shells that I have collected from the ocean. The pendant consists of a cast mermaid and a vintage photograph of a woman sitting on top of a rock. Shells often symbolize femininity, beauty, and strength while mermaids are mythical creatures that represent femininity and beauty as well. The pendant flips depicting on one side a woman and the other side a mermaid, drawing parallels between the two.

Artist: Iman Hearing

Title: Soft is Black

Artist Statement: Black is a color that stands for dark, strength, unknown, and evil. Black is a term that is almost always seen in a negative light. Time and time again, black women and non-binary people have been masculinized and sexualized profusely. Whether it be for the sexual pleasure of white men or the uplifting of white feminism; feminine black people never get an ounce of respect. Features such as larger round noses, kinky hair, and dark skin are treated as undesirable. The media shines a light on powerful black women but, in turn, rarely respects them. Even hair is a topic of debate. Just because one chooses to wear their hair in a styled curl, protective braids, or even wigs does not make one more or less black.

The reclaiming of black femininity starts with how one chooses to dress. Through my protest piece, I want to stand proud and promote the uplifting of all feminine black people. Black can be powerful, black can be bold, but black can be charming and sweet.

Artist: Elizabeth Morgan

Title: Mourning Chatelaine

Artist Statement: This chatelaine showcases my love for my pets. The orchid symbolizing my everlasting love I will always have for them. My pet's fur is in the glass jar with crystals for protection and my cat's nose in the frame. The pigeon heads symbolizing love and family. It is meant to be kept safe wearing on your body and always having them with you. Sometimes we mourn for them even while they're still here with us.

Artist: Alaina Smith

Title: Threads of Time

Artist Statement: At the heart of Threads of Time is my thimble collection, a deeply personal series of collector's thimbles that have been passed down through my family. The collection began with my maternal grandmother, and after her passing, I inherited it and expanded upon it. My paternal grandmother gifted me my great-grandmother's thimbles, and I also used my maternal great-grandmother's thimble as the mold for the bracelet's charms. Each thimble charm in the bracelet is a direct reflection of my collection, capturing not only the form but also the wear and tear of these objects, signifying the lives and experiences that have left their mark on them. The bracelet symbolizes how our lives and experiences are intertwined with the objects we carry with us and how these objects, small as they are, serve as tangible reminders of who we are and where we've been.

Threads of Time, for me, is an emotional tribute to my ancestors, a way of linking the past and present through the things they once held and used. It is a way of carrying memories with me, preserving them in a tangible form. It reflects the importance of my family, travel, and personal history. Through this piece, I hope to communicate the value of heirlooms, the passage of time, and the enduring connection we have to the objects and stories that shape us.



SSD Keynote Speaker

Shobita Parthasarathy, Ph.D.

Tuesday, April 8, 2025, 4:00-5:30 p.m.

Alumni House

Allendale Campus

Lecture, followed by reception



To Achieve Social Equity, We Must Rethink Innovation Systems

For well over a century, technology has often seemed like the best solution to the problems of the world, from poverty to environmental degradation. But there is growing recognition that it can be at least as harmful as it is helpful. In response, we have seen growing efforts towards “tech for good”, and specifically designing technologies for equity. While such efforts are well-intentioned, in my talk I will argue that they are not sufficient, describing my own journey in understanding the complex relationship between technology and equity through genetics and biotechnology, intellectual property, artificial intelligence, and inclusive innovation across the world. I will suggest that to achieve social equity and justice, we must think differently about the whole innovation system, starting from who counts as an inventor and who gets to choose research priorities to how we evaluate technologies.

Dr. Shobita Parthasarathy is Professor of Public Policy and Women’s and Gender Studies, and Director of the Science, Technology, and Public Policy Program, at the University of Michigan. Her research investigates how innovation and innovation policy can better achieve social equity and justice. She has published widely on genetics and biotechnology, inclusive innovation for international development, artificial intelligence, patents, and the politics of science in policymaking. She is the author of *Building Genetic Medicine: Breast Cancer, Technology, and the Comparative Politics of Health Care* and *Patent Politics: Life Forms, Markets, and the Public Interest in the United States and Europe*. The former influenced the 2013 Supreme Court case that determined human genes were not patentable; the latter won the 2018 Robert K. Merton Award from the American Sociological Association. She regularly advises policymakers and has written for *Boston Review*, *The New York Times*, *Slate*, and *Nature*. She co-hosts The Received Wisdom podcast.



Co-Sponsored by: Digital Studies



SSD Events, Workshops, and Performances Schedule

Wednesday, April 9

Your Research, Your Future: Employer Panel and Networking

9:00 a.m.-10:00 a.m.

Kirkhof Event Center, Pere Marquette 2204

The **Employer Panel & Networking Breakfast** is a special event within **Student Scholars Day** that connects students with employers who actively seek candidates with undergraduate research experience. The panel will highlight local employers committed to hiring students engaged in research and offer valuable insights into how research skills translate to key workplace competencies. Additionally, the event provides a unique opportunity for students to network with potential employers, while hearing inspiring success stories from former students who have successfully transitioned from research to professional roles in the community. Breakfast Provided

HealthWest – Muskegon County Community Mental Health, Northern Bio, Van Andel Research Institute, Haworth

Virtual Climate Change Student Symposium

10:00 a.m.-1:00 p.m.

The 4th Annual Virtual Climate Change Student Symposium (VCCSS) is an extended virtual session showcasing student research and creative activities focusing on climate change, its causes, impacts, science/policy interface, and mitigation and adaptation solutions. VCCSS is a multi-disciplinary synchronous online event hosted on GVSU Zoom Webinar platform and is a joint ongoing initiative of the Office of Undergraduate Research and Scholarship and GVSU Climate Change Education Solutions Network.



Workshop, Going Public: Sharing Research with Zines

2:30-5:00 p.m.

Knowledge Market-1st floor Mary Idema Pew Library

Calling all students, faculty, and staff to join us for a zine workshop! Join members of the CLAS Society, Technology, and Environment cluster to share research ideas and create your own DIY publication. Bring your creativity, we’ll provide the supplies.

Performance, Fragile: A Mentored Studio Practice of Emotion in Motion

4:30-5:00 p.m.

Atrium, Mary Idema Pew Library

Directed by Edgar L. Page with Demetria Thomas, this mentored studio practice collapses margins of the performative around choice, in and of the moment. This performance is a unique form of experiential learning as it is choreographed by the student performers with guidance through a series of micro-workshops that asked them to deeply unpack a singular focus until it is fully embodied. How does one hold on to something, or someone, that is *fragile*?

Thursday, April 10

SSD Exhibition of Art Reception

5:00-6:30 p.m.

Calder Art Center

The SSD Exhibition of Art is curated by the Department of Visual and Media Arts to celebrate student excellence in creative work. The atrium gallery of the Calder Art Center will showcase exceptional student drawings from various classes, reflecting the department’s commitment to high standards of scholarship. This exhibition, highlighting the importance of student achievement across disciplines such as Art Education, Art History, Film and Video Production, Photography, and Studio Art, will be on display from April 7-25, 2025.



SSD Presentation Schedule

Wednesday, April 9

9 a.m.-5 p.m.

- **Mini-Zine**
located on the 1st floor of the Mary Idema Pew Library
 - **Extended Sessions and Sessions**
located in the Russel H. Kirkhof Center
 - **Oral Presentations**
located in the Russel H. Kirkhof Center
 - **Poster Presentations**
located in the Henry Hall Atrium and the Grand River Room
in the Russel H. Kirkhof Center
-
- **Recorded Presentations and Podcasts** available at gvsu.edu/ssd/



Presentation Abstracts



Abstracts in PDF



SSD Schedule Builder

Every presentation is accompanied by an abstract. You can access the abstract in two ways: through the QR code for the SSD Schedule Builder or through the SSD website. The abstract will tell you what the presentation is about, who is presenting, when the presentation occurs, where the presentation is located and the name of the presenter's mentor.



Recorded Presentations and Podcasts



The Effects of Early Mobility with Mechanically Ventilated Patients

Presenter: Katherine Narr
Mentor: Elizabeth Davis

Ending Homelessness in Muskegon County

Presenter: Suzanna Johnson
Mentor: Jamie Langlois

Refugee Presentation

Presenter: Jacob Schultz
Mentor: Jamie Langlois

Statistical Consulting Center Report: Score-Keeping Story

Presenter: Jason Tanis
Mentor: Sango Otieno

YouTube: Highlighting the Socio-economic Evolution of Child Poverty in the United Kingdom

Presenter: Aubrey Vervaeet
Mentor: Anthony Spencer

Spatial Transcriptomics

Presenter: Pravallika Manchu
Mentor: Suhila Sawesi

When the Virus Stays: Understanding the Mystery of Long COVID

Presenter: Swarna Bharathi Kathi
Mentor: Suhila Sawesi

Podcast

Economy Gig Files: The Hidden Truth About Gig Work With Amazon Flex

Presenter: Grace Memelli
Mentor: Jeffrey Rothstein

Mini-Zines

LOCATION: Mary Idema Pew Library, 1st floor

The Tale of the Dueling Neurosurgeons

Presenter: Avery Kibbey *Mentor: Carrie Ann Sharitt*

How a Map Changed Medicine

Presenter: Leah Blood *Mentor: Carrie Ann Sharitt*

The Tale of the Dueling Neurosurgeons

Presenter: Allison Plank *Mentor: Carrie Ann Sharitt*

Growing Together: Community Gardens in Grand Rapids

Presenter: Rebecca Lubbers *Mentor: Darien Ripple*

Beloved Beasts

Presenter: Emma Shimizu *Mentor: Carrie Ann Sharitt*

The Impact of Phosphorus

Presenter: Garrett Bennema *Mentor: Carrie Ann Sharitt*

Epidemic Enigma

Presenter: Lauren Uftring *Mentor: Carrie Ann Sharitt*

Devils Hole Pupfish

Presenter: Vanessa Rook *Mentor: Carrie Ann Sharitt*

Coral

Presenter: Madeline Salzman *Mentor: Carrie Ann Sharitt*

Phosphorus and the Effects it Has on Us

Presenter: Lauren Lipka *Mentor: Carrie Ann Sharitt*

Cane Toads Down Under

Presenter: Grace Fein *Mentor: Carrie Ann Sharitt*

The Other Half of Alchemy: On the History of Magick in Science and the Role of Spirits in Alchemy

Presenter: Locke Afton *Mentor: Carolyn Shapiro-Shapin*

Beloved Beasts

Presenter: Katie O'Connell *Mentor: Carrie Anne Sharitt*

Extended Sessions

LOCATION: KIRKHOF CENTER 2263

11:00 a.m.

Mathematics and Applications

Jordan Edwards, Jarrett Gadziemski, Kennedy Graham, Grant Harrison, Connelly Heleran Nordlund, Alaina Hogan, Rowan Kennedy, Sydney Lipton, Kyle McKee, Grady Miller, Julia Osmun, Mallory Price, Nicholas Simmons, Ethan Woudwyk, Sarah Zaske

Mentors: Drs. Feryal Alayont, Lora Bailey, David Clark, Brian Drake, Firas Hindeleh, Lauren Keough

11:00 a.m.

• Guessing Games to Determine One of Several Secret Numbers

Kyle McKee, Julia Osmun

Mentor: David Clark

11:20 a.m.

• Edge Covers of Graphs with Concurrently Extending Paths

Connelly Heleran Nordlund and Grady Miller

Mentor: Feryal Alayont

11:40 a.m.

• Movement and Mathematics: Calculating Differences Between Dancers and Non-Dancers

Alaina Hogan

Mentor: Lora Bailey

12:00 p.m.

• Comparing Two Epidemiological Models: Applications to Mpox

Kyle McKee

Mentor: Lora Bailey

12:20 p.m.

• Classification of the Seven-Dimensional Solvable Lie Algebras with $A_{5,4}$ and $A_{5,5}$ Nilradicals

Jordan Edwards, Jarrett Gadziemski, Grant Harrison, Mallory Price, Nicholas Simmons

Mentor: Firas Hindeleh

12:40 p.m.

• Counting Edge Covers Of Chain Graphs

Ethan Woudwyk

Mentors: Feryal Alayont, Dr. Brian Drake

1:00 p.m.

• Classification of the Seven-Dimensional Solvable Lie Algebras with $A_{5,6}$ and $A_{3,1} + R_2$ Nilradicals.

Jordan Edwards

Mentor: Firas Hindeleh

Extended Sessions

1:20 p.m.

- **Offline Guessing Games with Two Numbers**
Sarah Zaske
Mentor: David Clark

1:40 p.m.

- **Rotating States: What if Cups Had Three Sides?**
Kennedy Graham, Rowan Kennedy, Sydney Lipton
Mentor: Lauren Keough

2:00 p.m.

Psychology - Oral Presentations and Award Ceremony

Mark Crossen, Abby DeSantis, Rebecca Dewey, Julia Stuckey
Mentors: Drs. Amanda Karsten, Todd Williams, Michael Wolfe

- **Belief Consistency Elects Response Bias**
Rebecca Dewey, Abby DeSantis & Julia Stuckey
Mentors: Michael Wolfe & Todd Williams
- **From Curiosity to Discovery: Development of a Course-Based Research Experience**
Mark Crossen
Mentor: Amanda Karsten
- **Examining Social Media as a Coping Mechanism and Its Effect on Academic Procrastination**
Arnica Sheaffer
Mentor: Natasha Swalve
- **Preoperational Thinking and Conspiratorial Belief**
Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck
Mentors: Brian Bowdle & Mario Fific

Sessions

LOCATION: KIRKHOF CENTER 2263

9:00 a.m.

Race, Gender and Sexuality: Exploring Ways to Create Inclusive Spaces

Presenters: Dacey Redman, Jeanelle Scharphorn, Collin St John, Stephen Staple
Mentor: Anthony Spencer

- **The Under-Representation of Black Makeup Users within IT Cosmetics**
Dacey Redman
- **Mascots and the NFL: A Critical Analysis of the Washington Redskins**
Spencer Staples
- **Funny is Not Always Right: How Dave Chappelle Misrepresents LGBTQ+ and Transgender Identity**
Collin St. John
- **"The White Man's Burden" Cartoon: Cultural Analysis of Filipinos**
Jeanelle Scharphorn

10:00 a.m.

Centering Student Experience and Engagement in the Literacy Classroom

Melanie Avila, Ellie Esman, Tyler Peery
Mentor: Lindsay Stoetzel

- **Maximizing Phonics Success: Practical Strategies for Multisensory Engagement and Orthographic Mapping**
Ellie Esman and Tyler Peery
- **Reclaiming Identity: Empowering Students, and Honoring Name**
Melanie Avila

5:00 p.m.

Revolutionary Soundscapes: Mexican Cinema and Youth Culture

Presenters: Adriana Garcia, Duncan Macewen
Mentor: Mayra Fortes Gonzalez

- **Güeros: Sound as Storytelling**
Adriana Garcia
- **Social Institutions and Revolutionary Youth in *Los olvidados* and *Güeros***
Duncan Macewen

Sessions

LOCATION: KIRKHOF CENTER 2270

12:00 p.m.

Power, Representation, Resistance: Women, Gender, and Sexuality Studies/Global Studies and Social Impact Capstone Projects (Part 1)

Mentor: Aaron Eddens

- **(S)he's Tired: How Society Exploits the Domestic Duties of Women After the Traditional 9-5**
Madison Gurley
- **Exploitation Equals Power: Reframing How Women Are Viewed in Domestic Work**
Morgan Kidder
- **Re-claiming "Black Excellence": Respectability Politics and Survival under Capitalism**
Jada Dobbins
- **A Crack Through the Center: How Extractive Industry Brutalizes the Environment and the Bodies of Indigenous Women**
Gabrielle Salinas

1:00 p.m.

Power, Representation, Resistance: Women, Gender, and Sexuality Studies/Global Studies and Social Impact Capstone Projects (Part 2)

Mentor: Aaron Eddens

- **Too Trans for the Cisterhood: A Lesbian Herstorical Analysis of Trans Woman Exclusionary Practice and Ideology**
S'Niyah Tate
- **Preserve and Protect: How Power, Capitalism, and Violence Created Our National Parks**
Jacey Adams
- **Overrepresented and Unspoken: Promoting Intersectionality through the Marginalization of Queer Youth in Foster Care**
Gabrielle Navarre
- **The Perfect Victim: Rethinking Western Media Construction of Victims of Domestic Minor Sex Trafficking**
Morgan Bernardi

Oral Presentations

9:00 a.m.	KC 1104	Play Time: Therapeutic Use of Play for Children with Cerebral Palsy Presenters: Emma Gutierrez, Ava Kunkel, Erica Vazquez, Madeline Bagnasco Mentor: Dawn De Vries
9:00 a.m.	KC 1142	The Detriments of Autistic Masking: A Literature Review Presenter: Karis Gillen Mentor: Amy Matthews
9:00 a.m.	KC 2201	Data Fusion Uncertainties Knowledge Graph Presenter: Braiden Betway Mentor: Jiaxin Du
9:00 a.m.	KC 2259	Burial Practices of Stone Age Populations from Southeast Europe Presenter: Sofiiia Svyryd Mentor: Alexey Nikitin
9:00 a.m.	KC 2266	Effects of Cognitive Behavioral Therapy on the Severity of Symptoms in Adults with Major Depressive Disorder Presenters: Emily Chase, Lilly Epley, Alivia Royer, Francesca Petrucci Mentor: Chad Sutcliffe
9:30 a.m.	KC 1104	Scaling New Heights: Overcoming the Challenges of Rock Climbing with Limb Impairments Presenters: Sarah Webster, Brenden VanHaver, Samantha Leonhardt Mentor: Dawn De Vries
9:30 a.m.	KC 1142	A Novel Investigation into Species-Specific Tree Architecture Presenter: Catherine Chappell Mentors: Gary Greer, Susan Mendoza
9:30 a.m.	KC 2201	A Woman's Lament: The Gendered History of Classical Greek Funerary Rituals Presenter: Mikayla Ide Mentor: Melissa Morison
9:30 a.m.	KC 2259	What's Love Got To Do With It? A Study of Love in Transnational Marriages Presenter: Hannah Perri Mentor: Yan Yu
9:30 a.m.	KC 2266	The "Man Bites Dog" Case of Canada's Immigration System Presenter: Madelyn Stembol Mentor: Thomas Walker
10:00 a.m.	KC 1104	Positive Change: Behavioral Modification Techniques for Adolescents with Autism in Community Settings Presenters: Trevor Lewis, Dylan Franges, Megan Malinowski, Sophia Corpel Mentor: Dawn De Vries
10:00 a.m.	KC 2266	Abortion on the Ballot: Analysis of Abortion Referenda in the 2022 and 2024 Elections Presenter: Nancy Boyd Mentor: Thomas Walker
10:30 a.m.	KC 1104	Montessori Magic: An Exploration of Hands-On Activities for People with Dementia Presenters: Delaney Geiersbach, Lirie Krasniqi, Sarah Smid Mentor: Dawn De Vries
10:30 a.m.	KC 1142	Evaluating Foreign Intervention: A Libya Case Study Presenter: Chloe Chynoweth Mentor: Thomas Walker
10:30 a.m.	KC 2201	Threading History: Women's Agency in Antiquity Presenter: Caroline Collier Mentor: Melissa Morison
10:30 a.m.	KC 2259	Accelerating Electrodeposition Simulations with Physics-Informed Neural Networks Presenter: Allan Ngaruiya Mentor: Abishek Balsamy Kamaraj
10:30 a.m.	KC 2266	Rewriting the Humanities in Eco-crisis: How A.I. and Tech Dominance Limits Our Collective Creativity Presenters: Jackson Hicks, Brooke Rempalski Mentor: Brian Deyo
10:30 a.m.	KC 2270	Factors Affecting Satisfaction Levels of Visitors of Harbor/Marinas in Michigan During 2023/2024 Seasons Presenters: Benjamin Hettinger, Donovan Fiyalko Mentors: Sango Otieno, Patty Janes
11:00 a.m.	KC 1104	Breaking Boundaries and Building Memories Presenters: Maria Esparza, Julia Blaney, Sydney Affholder Mentor: Dawn De Vries
11:00 a.m.	KC 2201	"Don't Waste Your Suffering:" The Language of Buddhist-Based Recovery Presenter: Cass Kramer Mentor: Michael Wroblewski
11:00 a.m.	KC 2259	Findings from Girl Scouts of Michigan Shore to Shore 2022-2024 Online Surveys. Presenters: Leah Stawara, Sinell Robinson Mentor: Sango Otieno
11:00 a.m.	KC 2266	How African Students in the U.S. Share Cultural Practices: Exploring the Relationship Between Food and Communication Presenter: Ruth Yeboah Mentor: Anthony Spencer
11:00 a.m.	KC 2270	Presenting Prettily: Cosmetics and Body Modifications in Antiquity and How They Were Used Presenter: Elyse Karasinski Mentor: Melissa Morison
11:30 a.m.	KC 1104	From Combat to the Waves: Therapeutic Surfing and its Effects on Veterans Presenters: Hailey Vander Roest, Grace Gunderson Mentor: Dawn De Vries
11:30 a.m.	KC 1142	Michigan DNR Day-Use Area Data Analysis Presenters: Mason Denton, David Smith Mentors: Patty Janes, Sango Otieno
11:30 a.m.	KC 2266	Tech Communications Analysis Presenters: Jason Hagen, Samuel Defrank Mentors: John Reynolds, Sango Otieno
11:30 a.m.	KC 2270	Chariton to Charlotte Brontë: The Role of the Ancient Greek and Roman Romances in the Evolution of the Novel Presenter: Mckinley Hixon Mentor: Melissa Morison

Oral Presentations

- 12:00 p.m. KC 1104 **Finding Balance: The Power of Tai Chi in Combating Depression and Anxiety**
Presenters: Elisabeth Vogt, Lillian Scriptor, Anna Schlutt, Jacie Burk *Mentor: Dawn De Vries*
- 12:00 p.m. KC 2266 **We Do Not Accept OPTI: Contesting Systemic Barriers for International Student Internships**
Presenter: Amanda Anka *Mentor: Anthony Spencer*
- 12:30 p.m. KC 1104 **Boarding Flight 988: Meaningful Travel Experiences for Healing in Foster Care Communities**
Presenter: Elaina Marcum *Mentor: Dawn De Vries*
- 12:30 p.m. KC 1142 **On Roman and American Virtue and the Bonfire of Virtue**
Presenter: Richard Finn *Mentor: Paul Cornish*
- 12:30 p.m. KC 2266 **Keeping Score at Grady's Garden**
Presenters: Nicholas Altena, Nathaniel VanDyk *Mentor: Sango Otieno*
- 1:00 p.m. KC 2201 **Rule or Be Ruled: An Analysis of Zeus as a Passive Spectator**
Presenter: Jacob Morgan *Mentor: Melissa Morison*
- 1:00 p.m. KC 2259 **Misrepresentation of Muslims in Western Media**
Presenter: Mariam Rida *Mentors: Anthony Spencer, Carl Brown*
- 1:00 p.m. KC 2266 **Exploratory Analysis: Advertising to Gen-Z**
Presenters: Julia Osmun, Kyle McKee *Mentors: Sango Otieno, Robin Spring*
- 1:30 p.m. KC 2259 **Echoes of the Dead: The Treatment of the Dead in Hoplite Warfare**
Presenter: Kailey Washburn *Mentor: Melissa Morison*
- 2:00 p.m. KC 1104 **Statistics on the Driver's Seat at the GVSU Counseling Center**
Presenters: Lauren Wolak, Lilly Wright *Mentors: Brian Bossick, Sango Otieno*
- 2:00 p.m. KC 2201 **The Shadows of Troy: The Trojan War Rewritten and Reviewed Through the Experiences of Trauma in The Silence of the Girls**
Presenter: Lilian Hevron *Mentor: Melissa Morison*
- 2:30 p.m. KC 2201 **Seasonal Shifts in Angler Attitudes and Motivations at Drowned River Mouth Lakes**
Presenters: Steven King, Amanda Francis *Mentors: Carl Ruetz, Amanda Buday*
- 2:30 p.m. KC 2259 **The Understanding of Geographic Space in Antiquity**
Presenter: Samuel Sabatino *Mentor: Melissa Morison*
- 3:30 p.m. KC 1104 **Profiles of Michigan State Park Campground Visitors Based on a 2024 Online Survey**
Presenters: Nicholas Ricketts, Zachariah Yonker *Mentors: Patty Janes, Sango Otieno*
- 3:30 p.m. KC 2266 **A Study and Mapping of the Chian Wine Trade in the Classical and Hellenistic Periods Through Amphorae**
Presenter: Enzo Arcamone *Mentor: Melissa Morison*
- 4:00 p.m. KC 2270 **Place Your Bets: Games and Gambling in Ancient Greece**
Presenter: Martin Hall *Mentor: Melissa Morison*
- 4:30 p.m. KC 1142 **National Student Advertising Competition (NSAC) Ad Campaign Presentation**
Presenters: Grace Roginski, Rebekah Bleyenbergh, Sophia Rolfe, Helena Wilson, Grant Fales *Mentor: Robin Spring*
- 4:30 p.m. KC 2201 **A Pilot Study on Tongue Pressures in the Geriatric Population**
Presenter: Rylee Davis *Mentor: Srihimaja Nandamudi*
- 4:30 p.m. KC 2259 **Perceived Support & Belongingness Amongst Groups of Underrepresented and Majority Graduate Students**
Presenter: Jada Thomas *Mentor: Mikhila Wildey*
- 4:30 p.m. KC 2266 **Reconstructing Hera: Gender, Marriage, and Power in Greek Mythology**
Presenter: Aoife McKenzie *Mentor: Melissa Morison*

Poster Presentations

- 9:00 a.m. HRY 002 **Multi-Head Attention in Single Cell Variational Autoencoders**
Presenter: Jack Foreback *Mentor: Zachary DeBruine*
- 9:00 a.m. HRY 003 **Evaluating FeEDDHA from Commercial Fertilizers as an Electrolyte for an All-Iron Aqueous Redox Flow Battery**
Presenter: Christina Jiang *Mentor: Andrew Lantz*
- 9:00 a.m. HRY 007 **Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations**
Presenter: Griffin Thompson *Mentor: Alexandra Locher*
- 9:00 a.m. HRY 012 **GIS Analysis and Mapping of Parking Reductions in Grand Rapids, MI**
Presenter: Rebecca Lubbers *Mentor: Kin Ma*
- 9:00 a.m. HRY 019 **Assessing the Role of the Chaperone Protein TRAP1 on Modulating α -synuclein in the Drosophila Model of Parkinson's Disease**
Presenters: Nicolette Owen, Lillie Waldron *Mentor: Georgette Sass*
- 9:00 a.m. HRY 020 **Be Mindful Juniors**
Presenter: Terrence Bolden *Mentor: Jamie Langlois*
- 9:00 a.m. HRY 025 **Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the PATHWAYS Project**
Presenter: John Rozema *Mentor: Martin Burg*
- 9:00 a.m. HRY 033 **Physiologic Effects of Beetroot on Pulmonary Arteries**
Presenters: Tejaswini Balla, Carter Bechtel, Jerrome Kue, Daniel Nichols, Genevieve Osowski, Caleb Porter, Drew Smith, Luis Vidal *Mentor: Francis Sylvester*
- 9:00 a.m. HRY 034 **Ethical Leadership in Relation to Perceived Organizational Support and Job Satisfaction**
Presenter: Logan Darling *Mentor: Benjamin Walsh*
- 9:00 a.m. HRY 035 **Understanding the Role of AI in Job Crafting - Literature Review and Proposed Model**
Presenter: Zachary Spencer *Mentor: Benjamin Walsh*
- 9:00 a.m. HRY 036 **Understanding How the Components of Perceived Overqualification Impact Job Satisfaction**
Presenter: Lauren Andrews *Mentor: Benjamin Walsh*
- 9:00 a.m. HRY 037 **Do Big-Five Personality Traits (Conscientiousness and Agreeableness) Predict Perceived Work Ability Above and Beyond Job Stress?**
Presenter: Paige Gutzeit *Mentor: Benjamin Walsh*
- 9:00 a.m. HRY 040 **Effects of Oxidative Stress on the Generation of ATP by *Galleria mellonell***
Presenter: Daniel Molette *Mentor: Babasola Fateye*
- 9:00 a.m. HRY 041 **Exploring Selenium Chemistry: Synthesis and Characterization of Novel Organoselenium and Phosphorus Compounds**
Presenters: Jaden Baldwin, Parker Van Ess *Mentor: John Bender*
- 9:00 a.m. HRY 042 **Short-Term Changes in Soil Organic Carbon Fractions Due to Prescribed Sheep Grazing**
Presenter: Julia Shreve *Mentor: Tara Kneeshaw*
- 9:00 a.m. HRY 043 **Isoforms of GAP-43: Making Connections to Alzheimer's Disease**
Presenter: Jacob Reed *Mentor: Jerry Keeney*
- 9:00 a.m. HRY 048 **U.S. Mental Maps of Northern Lower Peninsula Michiganders: Mapping Perceptions of the U.S. South**
Presenter: Alexandra Jorns *Mentor: Kin Ma*
- 9:00 a.m. HRY 049 **A Diatom Voucher Flora of Pierce Ponds**
Presenter: Olivia Sandman *Mentor: Sarah Hamsher*
- 9:00 a.m. HRY 053 **Animal Assisted Therapy Effects on Nursing Students' Test Anxiety**
Presenters: Kailey Bombe, Sydney Butts, Elizabeth Crowley, Zoey Czyzewski *Mentor: Leigh Anne DeNotto*
- 9:00 a.m. HRY 059 **Debriefing Tools Within the Critical Care Setting**
Presenter: Lauren Atwell *Mentor: Elizabeth Davis*
- 9:00 a.m. HRY 062 **Suicidality in Autistic College Students**
Presenter: Sam Fisher *Mentor: Jamie Owen-DeSchryver*
- 9:00 a.m. HRY 065 **From Curiosity to Discovery: Development of a Course-Based Research Experience**
Presenter: Mark Crossen *Mentor: Amanda Karsten*
- 9:00 a.m. HRY 075 **Michigan Tri-Share Policy Analysis and Evaluation**
Presenters: Madalyn Fuhr, Lacey Jones, Michael Luke, Jackson Richmond, Lauren Robar *Mentor: Raymond Higbea*
- 9:00 a.m. HRY 085 **Transitioning New Graduate Nurses into the Emergency Department**
Presenter: Alexis Hazen *Mentor: Elizabeth Davis*
- 9:00 a.m. HRY 086 **Lanthanide and Actinide Coordination Chemistry Using Butyl-substituted Multidentate CMPO Compounds**
Presenter: Brianna Gordon *Mentor: Shannon Biro*

Poster Presentations

- 9:00 a.m. HRY 089 **The Identification of Phenotypes Associated with Mutations in the AANATL-7 Gene in *Drosophila melanogaster***
Presenters: Daan Louwerse, Madeline Skym *Mentor: Martin Burg*
- 9:00 a.m. HRY 090 **Breast Cancer Staging and the Importance of Early Detection**
Presenter: Sydney Zimmerman *Mentors: Natalie Laudicina, Chris Reed, Dawn Richiert, Laura Stroik*
- 9:00 a.m. HRY 093 **Examination of How Expression of the dj-1beta Gene Impacts Oxidative Stress Levels and the Phenotype of the Adult Eye in *Drosophila melanogaster***
Presenter: Jackelyn Palmas *Mentor: Georgette Sass*
- 9:00 a.m. HRY 096 **Advancing Microfossil Processing Techniques and Faunal Analysis from the Duchesne River Formation, Uinta Basin, Utah**
Presenters: Michael Baldus, Selah Bollinger, Jaclyn Driesenga, Jessica Frielink, Samantha Hacker, Andrew Kelley, Dylan Ruiter *Mentor: Laura Stroik*
- 9:00 a.m. HRY 097 **Histological Analysis of *Macaca mulatta* Dura Mater Collagen Fiber Organization**
Presenter: Hope Fischer *Mentor: Chris Reed*
- 9:00 a.m. HRY 100 **The Motivations and Practices of West Michigan Anglers**
Presenters: Amanda Francis, Steven King *Mentors: Amanda Buday, Carl Ruetz*
- 9:00 a.m. HRY 101 **Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal**
Presenter: Jack Lipscomb *Mentor: Glenn Valdez*
- 9:00 a.m. KC GRR 003 **Healing Through Creativity**
Presenter: Essence Williams *Mentor: Dawn De Vries*
- 9:00 a.m. KC GRR 006 **Determining the Identity of Histamine Metabolites in the CNS of *Drosophila melanogaster* Using Mutations that Disrupt Histamine Metabolism**
Presenter: Lola Piper *Mentor: Martin Burg*
- 9:00 a.m. KC GRR 033 **A Student's Perspective on Nursing Scholarship: Exploring the Value and Impact of the DNP-prepared Nurse**
Presenter: Akiko Flanders *Mentor: Katherine Moran*
- 9:00 a.m. KC GRR 039 **Caffeine, Resistance Exercise, and the Cardiovascular Effects: A Review of the Literature**
Presenter: Leah Converse *Mentor: Sarah Kearney*
- 9:00 a.m. KC GRR 041 **Identifying Bat Species Through Fecal Samples**
Presenter: Daniela De Andrade *Mentor: Amy Russell*
- 9:00 a.m. KC GRR 042 **Observing the Causes and Effects of Scoliosis in an 80 Year-Old Female Cadaver**
Presenter: Levi Vanast *Mentors: Natalie Laudicina, Chris Reed, Dawn Richiert, Laura Stroik*
- 9:00 a.m. KC GRR 043 **Acute Toxicity of Cadmium in Larvae of the Greater Wax Moth**
Presenter: Sarah Atang *Mentor: Babasola Fateye*
- 9:00 a.m. KC GRR 051 **Understanding Partner Social Dance: Motion Analysis of Salsa Dance**
Presenters: Hannah Hertstein, Lauren Space *Mentors: Stephen Glass and Yunju Lee*
- 9:00 a.m. KC GRR 052 **Utilizing High-Temperature Melting for Lanthanide Trichloride Complex Synthesis with dppmO2**
Presenter: Joseph Paganelli *Mentors: John Bender, Shannon Biros*
- 9:00 a.m. KC GRR 054 **Core Muscle Activation During Lateral Trunk Rotation Using Core-Stix Resistance Poles**
Presenters: Seth DeCaire, Benjamin Maletta *Mentor: Stephen Glass*
- 9:00 a.m. KC GRR 056 **A Data-Driven Analysis of Health Informatics Graduate Education in the United States**
Presenters: Michael Irungu, Praniha Presingu *Mentors: Suhila Sawesi, Guenter Tusch*
- 9:00 a.m. KC GRR 061 **Cooler Coastal Environments of the Oligocene US East Coast**
Presenter: Ella Puffer *Mentor: Ian Winkelstern*
- 9:00 a.m. KC GRR 065 **Algal Responses to Nitrogen and Phosphorus Inputs in Wetlands of a Large River Mouth Ecosystem**
Presenters: Alexandra Ferguson, Lauren Tabor *Mentors: Matthew Cooper, Sarah Hamsher*
- 9:00 a.m. KC GRR 068 **Effects of ATG13 on *Schmidtea mediterranea* Regeneration**
Presenter: Brandalyn Morris *Mentor: Matthew Christians*
- 9:00 a.m. KC GRR 070 **Prospective Associations Between Trait Mindfulness, Health Behaviors, and Behavioral Intentions in College Students**
Presenter: Mya Hanna *Mentor: Amanda Dillard*

Poster Presentations

- 9:00 a.m. KC GRR 072 **Identifying Evolvability-Enhancing Mutations via Computational Models**
Presenter: Marcos Sanson *Mentor: Austin Ferguson*
- 9:00 a.m. KC GRR 080 **The Cat Gene and its affect on *D. melanogaster***
Presenter: Leonel Estudillo-Vazquez *Mentor: Georgette Sass*
- 9:00 a.m. KC GRR 091 **Guided Nature Forest Therapy**
Presenter: Caleb Franke *Mentor: Afokoghene Odhu*
- 9:00 a.m. KC GRR 092 **Volunteer Manager Perceptions and Sentiments About Court-Ordered Volunteers**
Presenter: Bex Takacs-Britz *Mentor: Salvatore Alaimo*
- 9:00 a.m. KC GRR 095 **Effects of Dry Needling, Craniosacral Therapy, and Sound Vibration on Brain Waves, Autonomic Regulation and Muscle Tension**
Presenter: Savannah Tormala *Mentor: Eric Ramsson*
- 9:00 a.m. KC GRR 101 **Does the Way *Candida auris* Differs from *Candida albicans* in One Protein Family Relate to its Drug Resistance or Emergence as an Urgent Threat to Human Health?**
Presenter: Carson Noyes *Mentors: Ian Cleary, Derek Thomas*
- 10:00 a.m. HRY 007 **Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations**
Presenter: Griffin Thompson *Mentor: Alexandra Locher*
- 10:00 a.m. HRY 013 **Raising the Steaks: Examining Cattle Exploitation at the Archaeological Site of Tel Dan, Israel**
Presenter: Orion Davis *Mentors: Elizabeth Arnold, Jonathan Greer, Mark Schwartz*
- 10:00 a.m. HRY 018 **Scapular Stability Muscle Activation During Multiplanar Shoulder Exercise Using Fiberglass Resistance Poles**
Presenters: Andrew Clarent, Anastasia Misson *Mentor: Stephen Glass*
- 10:00 a.m. HRY 024 **An Evaluation of Monocyte Distribution Width as a Sepsis Biomarker**
Presenters: Megan Budai, Lauren Hicks, Marlena Pinelli *Mentor: Lillian Nelson*
- 10:00 a.m. HRY 026 **Comparing Pelvic Dimesions of Precocial and Altricial Species to Investigate Human "Secondary Altriciality"**
Presenter: Emma Long *Mentor: Natalie Laudicina*
- 10:00 a.m. HRY 027 **Environmental Indicators and Schools of Choice for Children Living in the Detroit Area**
Presenter: Lelia Sigmon *Mentor: Heather Moody*
- 10:00 a.m. HRY 030 **Using Next-Generation Gene Sequencing for Enhanced Surveillance and Treatment of Multi-Drug Resistant Microorganisms**
Presenters: Claire Bryant, Olivia Doctor, Bryan Mazey *Mentor: Lillian Nelson*
- 10:00 a.m. HRY 039 **Evaluation of Restoration Efforts on a Lake Superior Coastal Wetland**
Presenter: Eden Hodgson *Mentor: Matthew Cooper*
- 10:00 a.m. HRY 044 **Advanced Practice Nursing Competencies, Roles and Outcomes: A Global Assessment**
Presenter: Dancun Juma *Mentor: Katherine Moran*
- 10:00 a.m. HRY 048 **U.S. Mental Maps of Northern Lower Peninsula Michiganders: Mapping Perceptions of the U.S. South**
Presenter: Alexandra Jorns *Mentor: Kin Ma*
- 10:00 a.m. HRY 051 **Investigating Sensory Processing: an In-Depth Look into the Synaptic Connectivity between Layer I Single Bouquet Cell (SBC) and Neurogliaform Cell (NGFC) and the Pyramidal Neurons They Target**
Presenter: Karis Gillen *Mentor: Gülcan Akgül*
- 10:00 a.m. HRY 060 **Synthesis of a Biogenic Amine**
Presenter: Chloe Spradlin *Mentor: Matthew Hart*
- 10:00 a.m. HRY 061 **Evaluating Preconditioner Performance of Quantum Many-Body Systems**
Presenter: Alaina Hogan *Mentor: Erin Carrier*
- 10:00 a.m. HRY 067 **Creating Chemistry Learning Materials for Use in GVSU Tutoring Centers**
Presenter: Gabriella Palombo *Mentor: Thomas Pentecost*
- 10:00 a.m. HRY 073 **Exploring the Mechanisms of Neurogenesis in the Adult Pig Eye Using a Multiple Cell Culture System**
Presenters: Esther Bard, Taylor Saber, Stephen Warner, Rachel Zarb *Mentor: David Linn*
- 10:00 a.m. HRY 074 **Influence of Redox Species Identity on Analyte Particle Transport in Single Entity Electrochemical Collisions**
Presenter: Robert Dean *Mentor: Scott Thorgaard*

Poster Presentations

- 10:00 a.m. HRY 076 **Identifying the Key Amino Acids within DUSP8 Protein that Determine its Activity**
Presenters: Annabel Maag, Bryson Marinich *Mentor: Ruijie Liu*
- 10:00 a.m. HRY 084 **Investigating Shared and Unique Associations on People-related Terms in School-aged Children and Large Language Models (LLMs - ChatGPT)**
Presenter: Landon Bartlett *Mentor: Josita Maouene-Cavin*
- 10:00 a.m. HRY 087 **Literature Review of Bedside Report in the Nursing Role**
Presenters: Justin Matthews, Hannah Ruff, Megan Supernaw, Jurrien Wilson *Mentor: Madison Goodyke*
- 10:00 a.m. HRY 088 **Anatomical and Clinical Implications of an Eye Removal Surgery: A Case-Study**
Presenter: Lucy Groothuis *Mentors: Natalie Laudicina, Chris Reed, Dawn Richiert, Laura Stroik*
- 10:00 a.m. HRY 092 **Preoperational Thinking and Conspiratorial Belief**
Presenters: Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck *Mentors: Brian Bowdle, Mario Fific*
- 10:00 a.m. HRY 095 **Impact of Mentoring and Intergenerational Programs at GVSU on Older Adults**
Presenter: Katherine Brennen *Mentor: Jing Chen*
- 10:00 a.m. HRY 098 **Comparison of Pituitary Gonadotropin Concentrations Between Three Strains of Mice**
Presenter: Madysen Gohl *Mentor: Chris Pearl*
- 10:00 a.m. HRY 101 **Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal**
Presenter: Patrick Baumann *Mentor: Glenn Valdez*
- 10:00 a.m. HRY 102 **Does Rejection and Ignoring Impact an Individual's Feeling of Physical Safety?**
Presenters: Liam Knisley, Paige Pulter *Mentor: Kristy Dean*
- 10:00 a.m. KC GRR 011 **Insights into Molybdenum Toxicity in an Invertebrate Model for Applications in Atherosclerotic Cardiovascular Disease**
Presenter: Brianna Hofman *Mentors: Babasola Fateye, Maria Kwesiga*
- 10:00 a.m. KC GRR 012 **All Behavior is Communication: Trauma-Informed Classroom Strategies**
Presenters: Mary Doucette, Daphnie Uhrich *Mentor: Jamie Langlois*
- 10:00 a.m. KC GRR 016 **Pick Me Up: A Chapbook of Poetry and Resources**
Presenter: Nathan Boyt *Mentor: Jamie Langlois*
- 10:00 a.m. KC GRR 017 **Painting A Brighter Future: The Power of Creative Arts in Overcoming Childhood Trauma**
Presenter: Rachael Ells *Mentor: Dawn De Vries*
- 10:00 a.m. KC GRR 023 **An Investigation of Reactivity and Stereoselectivity on the Epoxidation and Diels-Alder Reaction of Unique Chalcones**
Presenters: Elijah Kincaid, Ethan Smith, Ava Thomson *Mentor: John Bender*
- 10:00 a.m. KC GRR 025 **The Impact of the Mediterranean Diet on Inflammation in Adults with Systemic Lupus Erythematosus (SLE)**
Presenter: Emily Brom *Mentor: Nicole Harpold*
- 10:00 a.m. KC GRR 027 **Physical Activity on Depression in Nurses**
Presenters: Logan Klinge, Matthew Smith, Charles Walters *Mentor: Afokoghene Odhu*
- 10:00 a.m. KC GRR 029 **Alternative Splicing and MicroRNA Regulation in Thymoma**
Presenter: Bushra Rashrash *Mentors: Charitha Subrahmanya Kodumagulla, Suhila Sawesi*
- 10:00 a.m. KC GRR 030 **Dancing Away Burnout: Evaluating the Impact of Dance Movement Therapy on Healthcare Workers' Well-being and Compassion Satisfaction**
Presenter: Moira Yaney *Mentor: Afokoghene Odhu*
- 10:00 a.m. KC GRR 039 **Caffeine, Resistance Exercise, and the Cardiovascular Effects: A Review of the Literature**
Presenter: Leah Converse *Mentor: Sarah Kearney*
- 10:00 a.m. KC GRR 050 **A Comparative Machine Learning Framework for Predicting Pharmacy Type Selection in the United States**
Presenter: Michael Irungu *Mentor: Suhila Sawesi*
- 10:00 a.m. KC GRR 053 **A Replication and Comparison of 'Predisposing, Enabling, and Need Factors Driving Pharmacy Type Choice in The US' Using 2021 NCSME-PR Data**
Presenter: Praniitha Presingu *Mentor: Suhila Sawesi*
- 10:00 a.m. KC GRR 054 **Core Muscle Activation During Lateral Trunk Rotation Using Core-Stix Resistance Poles**
Presenters: Seth DeCaire, Benjamin Maletta *Mentor: Stephen Glass*

Poster Presentations

- 10:00 a.m. KC GRR 055 **Characterizing the Aggregation Process of the Functional Amyloid Kassinin**
Presenter: Lillie Waldron *Mentor: Laura Hawk*
- 10:00 a.m. KC GRR 066 **Effects of Oral Contraceptive Use and Cervical Cancer in Women**
Presenters: Mila Tasma, Emma Walker, Dylan Wigfield *Mentor: Chad Sutcliffe*
- 10:00 a.m. KC GRR 069 **Quebec Wildfires 2023**
Presenter: Bryan Heiss *Mentor: Kin Ma*
- 10:00 a.m. KC GRR 072 **Identifying Evolvability-Enhancing Mutations via Computational Models**
Presenter: Marcos Sanson *Mentor: Austin Ferguson*
- 10:00 a.m. KC GRR 077 **Can Photos Depict the Mental Health of Grand Valley State University Students?**
Presenter: Edwin Lopez Maldonado *Mentor: Babasola Fateye*
- 10:00 a.m. KC GRR 078 **Habitat Suitability of Eastern Massasauga Rattlesnakes in the Lower Peninsula of Michigan**
Presenters: Emma Adams, Gabrielle Blunt, Carly Hedley *Mentor: Kin Ma*
- 10:00 a.m. KC GRR 079 **Cannabinoid Influence on Eating Motivation in Rodents**
Presenter: Courtney Earl *Mentor: Natasha Swalve*
- 10:00 a.m. KC GRR 083 **Unlocking Memories: The Power of Mnemonics for Dementia Care**
Presenter: Savanah Cano *Mentor: Dawn De Vries*
- 10:00 a.m. KC GRR 086 **Recreational Therapy in Schools: Avenue to Holistic Learning**
Presenter: Samantha Jordan *Mentor: Dawn De Vries*
- 10:00 a.m. KC GRR 094 **Glitches in the System: Are EHRs Putting Patients at Risk?**
Presenter: Phaedra Melinn *Mentor: Chad Sutcliffe*
- 10:00 a.m. KC GRR 095 **Effects of Dry Needling, Craniosacral Therapy, and Sound Vibration on Brain Waves, Autonomic Regulation and Muscle Tension**
Presenter: Savannah Tormala *Mentor: Eric Ramsson*
- 11:00 a.m. HRY 004 **Defining the Herd: Using Virtual Anthropology to Distinguish Sheep and Goat at the Archaeological Site of Tel Dan, Israel**
Presenter: Anna Konold *Mentors: Elizabeth Arnold, Jonathan Greer, Mark Schwartz*
- 11:00 a.m. HRY 005 **The Company of Caprines: Applying Geometric Morphometrics to Animal Bone at the Archaeological Site of Tel Dan, Israel**
Presenter: Isabella Tyler *Mentors: Elizabeth Arnold, Jonathan Greer, Mark Schwartz*
- 11:00 a.m. HRY 007 **Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations**
Presenter: Griffin Thompson *Mentor: Alexandra Locher*
- 11:00 a.m. HRY 011 **Structural Weight Stigma in Healthcare**
Presenter: Magdalyn Hallead *Mentor: Rachel Fox*
- 11:00 a.m. HRY 013 **Raising the Steaks: Examining Cattle Exploitation at the Archaeological Site of Tel Dan, Israel**
Presenter: Orion Davis *Mentors: Elizabeth Arnold, Jonathan Greer, Mark Schwartz*
- 11:00 a.m. HRY 015 **Sauna Bathing as a Cardiovascular Intervention: A Systematic Review**
Presenter: Avery Schaeffer *Mentor: Chad Sutcliffe*
- 11:00 a.m. HRY 016 **Bridging the Gap: Integrating Basic Needs Assessment in University Counseling Center Triage**
Presenter: Toni Butler *Mentor: Jamie Langlois*
- 11:00 a.m. HRY 025 **Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the PATHWAYS Project**
Presenter: Gabrielle Monterusso *Mentor: Martin Burg*
- 11:00 a.m. HRY 029 **The Role of Cross-Department Communication in Enhancing Clinical Laboratory Efficiency and Patient Outcomes, Diagnostic Error Reduction and Workflow Optimization**
Presenters: Olivia Doerr, Chloe Jones, Nicole Miller *Mentor: Lillian Nelson*
- 11:00 a.m. HRY 031 **Artificial Intelligence in Hematological Diagnostics: Advances and Challenges**
Presenters: Aileen Botello, Danielle Howell, Mirka Osorio *Mentor: Lillian Nelson*
- 11:00 a.m. HRY 043 **Isoforms of GAP-43: Making Connections to Alzheimer's Disease**
Presenter: Kates Krasin *Mentor: Jerry Keeney*

Poster Presentations

- 11:00 a.m. HRY 045 **Modeling Molten Lithium Carbonate**
Presenter: Samuel Owen *Mentor: Christopher Lawrence*
- 11:00 a.m. HRY 047 **Influences of Unionid Mussels on Aquatic Benthic Macroinvertebrate Community Structure at Confluences in the Lower Grand River**
Presenter: Denise Gardner *Mentor: Eric Snyder*
- 11:00 a.m. HRY 048 **U.S. Mental Maps of Northern Lower Peninsula Michiganders: Mapping Perceptions of the U.S. South**
Presenter: Alexandra Jorns *Mentor: Kin Ma*
- 11:00 a.m. HRY 052 **Yoga Intervention on Sleep Quality and Stress in Nurses**
Presenters: Kenzie Henson, N'Diah Robinson, Kate Sadowski, Peyton Volk *Mentor: Leigh Anne DeNotto*
- 11:00 a.m. HRY 060 **Synthesis of a Biogenic Amine**
Presenter: Chloe Spradlin *Mentor: Matthew Hart*
- 11:00 a.m. HRY 063 **Fine Dining Restaurants Market**
Presenter: Kylah Allman *Mentor: Mohammed Lefrid*
- 11:00 a.m. HRY 083 **Alpha-Synuclein and Septin 1 in a Drosophila Ovarian Follicle Cells Model: Exploring Synucleins Beyond Neurodegeneration**
Presenter: Molly McGuire *Mentor: Georgette Sass*
- 11:00 a.m. HRY 092 **Preoperational Thinking and Conspiratorial Belief**
Presenters: Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck *Mentors: Brian Bowdle, Mario Fific*
- 11:00 a.m. HRY 101 **Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal**
Presenter: Lauren Wilmore *Mentor: Glenn Valdez*
- 11:00 a.m. HRY 102 **Does Rejection and Ignoring Impact an Individual's Feeling of Physical Safety?**
Presenters: Liam Knisley, Paige Pulter *Mentor: Kristy Dean*
- 11:00 a.m. KC GRR 005 **The Role of Medical Laboratory Scientists: Staffing Challenges, Turnaround Times, and Impacts on Patient Care**
Presenters: Kevin Le, Devan Powers, Maddison Ratliff, Michael VanSullichem *Mentor: Lilianne Nelson*
- 11:00 a.m. KC GRR 020 **Storage Optimization for Kidney Transplantation**
Presenter: Jaylyn Kelley *Mentor: Francis Sylvester*
- 11:00 a.m. KC GRR 023 **An Investigation of Reactivity and Stereoselectivity on the Epoxidation and Diels-Alder Reaction of Unique Chalcones**
Presenters: Elijah Kincaid, Ethan Smith, Ava Thomson *Mentor: John Bender*
- 11:00 a.m. KC GRR 026 **Synthesis and Microbiological Testing of Potential Tuberculosis Antibiotics**
Presenters: Nicole Denz, Thien Anh Hoang *Mentor: Matthew Hart*
- 11:00 a.m. KC GRR 030 **Dancing Away Burnout: Evaluating the Impact of Dance Movement Therapy on Healthcare Workers' Well-being and Compassion Satisfaction**
Presenter: Moira Yaney *Mentor: Afokoghene Odhu*
- 11:00 a.m. KC GRR 031 **Targeting the Human Histamine H3 Receptor for Myelin Repair in Multiple Sclerosis: Computational Identification of Potential Small Molecule Inhibitors**
Presenter: Sophie Stevens *Mentor: Agnieszka Szarecka*
- 11:00 a.m. KC GRR 037 **Kinetic Characterization of ADC-73, a prevalent class C β -lactamase expressed in *A. baumannii***
Presenter: Luz Sanchez *Mentor: Rachel Powers*
- 11:00 a.m. KC GRR 038 **Understanding the Relationship Between Different Dimensions of Social Exclusion and Perceived Physical Safety**
Presenters: Lauren Andrews, Lyric Hein *Mentor: Kristy Dean*
- 11:00 a.m. KC GRR 040 **Incidence of De Novo Arteriovenous Malformations After Mild or Severe Brain Injury: A Case Discussion and Analysis of Similar Reports**
Presenter: Connor Veen *Mentor: John Capodilupo*
- 11:00 a.m. KC GRR 044 **The Essential Role of the Pkn Gene in *Drosophila melanogaster*: Insights into Developmental Defects and Wing Morphology**
Presenter: Lia Quatro *Mentor: Georgette Sass*
- 11:00 a.m. KC GRR 046 **Exploring the Correlation Between Emotional Well-being and Academic Success in College Students Using AgileBrain**
Presenter: Caroline De Roo *Mentor: Babasola Fateye*

Poster Presentations

- 11:00 a.m. KC GRR 049 **Isotachophoresis Spacer Ion Optimization for *Escherichia coli* and *Lactobacillus casei* Separation**
Presenter: Colton Dysart *Mentor: Andrew Lantz*
- 11:00 a.m. KC GRR 051 **Understanding Partner Social Dance: Motion Analysis of Salsa Dance**
Presenter: Benjamin Maletta *Mentors Stephen Glass, Yunju Lee*
- 11:00 a.m. KC GRR 062 **Comparison of Clumped Isotope, Raman Spectroscopy, and Calcite Microstructural Constraints on Burial and Exhumation of the Laventille Formation, Northern Range, Trinidad**
Presenter: Hugo Rainey *Mentor: Ian Winkelstern*
- 11:00 a.m. KC GRR 066 **Effects of Oral Contraceptive Use and Cervical Cancer in Women**
Presenters: Mila Tasma, Emma Walker, Dylan Wigfield *Mentor: Chad Sutcliffe*
- 11:00 a.m. KC GRR 072 **Identifying Evolvability-Enhancing Mutations via Computational Models**
Presenter: Marcos Sanson *Mentor: Austin Ferguson*
- 11:00 a.m. KC GRR 076 **Coral Image Classification Using Underwater Image Enhancement**
Presenters: Dat Nguyen, Minh Tran *Mentors: Denton Bobeldyk, Jonathan Leidig*
- 11:00 a.m. KC GRR 077 **Can Photos Depict the Mental Health of Grand Valley State University Students?**
Presenter: Edwin Lopez Maldonado *Mentor: Babasola Fateye*
- 11:00 a.m. KC GRR 081 **Analysis of the Overexpression of Alpha-Synuclein on the Stathmin Gene and its Results on the Phenotype of the Ovary in *Drosophila melanogaster***
Presenter: Daniela De Andrade *Mentor: Georgette Sass*
- 11:00 a.m. KC GRR 095 **Effects of Dry Needling, Craniosacral Therapy, and Sound Vibration on Brain Waves, Autonomic Regulation and Muscle Tension**
Presenter: Savannah Tormala *Mentor: Eric Ramsson*
- 11:00 a.m. KC GRR 096 **Developing an Intervention Fidelity Measurement Plan: The Em-Power Study**
Presenter: Jordyn Hopgood *Mentor: Lisa Kenyon*
- 11:00 a.m. KC GRR 099 **Edge Covers of Joined Tadpole Graphs**
Presenter: Jarrett Gadziemski *Mentor: Brian Drake*
- 12:00 p.m. HRY 009 **Identification of AANATL-7 Expression Using the UAS-GAL4 System in *D. melanogaster* to Determine Where Histamine Acetylation is Occurring *in vivo***
Presenter: Margaret Cubitt *Mentor: Martin Burg*
- 12:00 p.m. HRY 010 **How Can I Learn About Gas Behavior? An Analysis of How YouTube Videos Help Support Students' Understanding of Gas Behavior**
Presenters: Lucian Forestieri, Gabriella Palombo, Isabella Senkowski *Mentor: Deborah Herrington*
- 12:00 p.m. HRY 011 **Structural Weight Stigma in Healthcare**
Presenter: Magdalyn Hallead *Mentor: Rachel Fox*
- 12:00 p.m. HRY 013 **Raising the Steaks: Examining Cattle Exploitation at the Archaeological Site of Tel Dan, Israel**
Presenter: Orion Davis *Mentors: Elizabeth Arnold, Jonathan Greer, Mark Schwartz*
- 12:00 p.m. HRY 015 **Sauna Bathing as a Cardiovascular Intervention: A Systematic Review**
Presenter: Avery Schaeffer *Mentor: Chad Sutcliffe*
- 12:00 p.m. HRY 021 **Burnout and Compassion Fatigue in Healthcare Workers**
Presenters: Anthony Caprara, Callyn Goodman *Mentor: Jamie Langlois*
- 12:00 p.m. HRY 023 **Health Literacy and Its Impact on Patient Compliance and Health Outcome**
Presenters: Allison Guo, Bree Potter, Madelline Waite *Mentor: Lilianne Nelson*
- 12:00 p.m. HRY 043 **Isoforms of GAP-43: Making Connections to Alzheimer's Disease**
Presenters: Jamie Valkenburg, Cleary Welsh *Mentor: Jerry Keeney*
- 12:00 p.m. HRY 045 **Modeling Molten Lithium Carbonate**
Presenter: Samuel Owen *Mentor: Christopher Lawrence*
- 12:00 p.m. HRY 048 **U.S. Mental Maps of Northern Lower Peninsula Michiganders: Mapping Perceptions of the U.S. South**
Presenter: Alexandra Jorns *Mentor: Kin Ma*
- 12:00 p.m. HRY 054 **Impact of Physical Activity on Nursing Students' Mental Health**
Presenters: Hannah Duclos, Emma Hyzer, Ryan Reynolds, Mallory Shustock *Mentor: Leigh Anne DeNotto*
- 12:00 p.m. HRY 065 **From Curiosity to Discovery: Development of a Course-Based Research Experience**
Presenter: Mark Crossen *Mentor: Amanda Karsten*

Poster Presentations

- 12:00 p.m. HRY 066 **Falcon to Falcon: Soaring Toward Peace with Peer Mediation**
Presenter: Keylaiha Brown *Mentor: Jamie Langlois*
- 12:00 p.m. HRY 069 **An Investigation of Chalcone Reactivity on Synthesized Epoxides and Episulfides: Characterizing Stereoselectivity**
Presenters: Elena King, Makalah Pearson *Mentor: John Bender*
- 12:00 p.m. HRY 071 **Awe and Metaphor**
Presenters: Marwah Al-Mashhadani, Sage Faustino *Mentor: Brian Bowdle*
- 12:00 p.m. HRY 077 **Characterization of ADC-218: Kinetic Profiling and Comparative Analysis with ADC-212**
Presenter: Harrison Smith *Mentor: Rachel Powers*
- 12:00 p.m. HRY 080 **Synthesis of TB Antibiotics: Cinnamamide Derivatives**
Presenters: Wesley Barnes, Lucian Forestieri, Evan Mann, Dale VanBaren *Mentor: Matthew Hart*
- 12:00 p.m. HRY 084 **Investigating Shared and Unique Associations on People-related Terms in School-aged Children and Large Language Models (LLMs - ChatGPT)**
Presenter: Andrea Essmaker *Mentor: Josita Mauuene-Cavin*
- 12:00 p.m. HRY 092 **Preoperational Thinking and Conspiratorial Belief**
Presenters: Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck *Mentors: Brian Bowdle, Mario Fific*
- 12:00 p.m. HRY 094 **PDK1 Knockdown in the Presence of Alpha-Synuclein in Drosophila**
Presenter: Jade Dawson *Mentor: Georgette Sass*
- 12:00 p.m. HRY 099 **Icelandic Volcanic Eruptions 2019-2023 and Impacts on Respiratory Health**
Presenters: Jennie Golaszewski, Aliya Huizinga *Mentor: Kin Ma*
- 12:00 p.m. KC GRR 001 **Neurodivergence: The Divergence of a Term**
Presenter: Emily Seburn *Mentor: Coeli Fitzpatrick*
- 12:00 p.m. KC GRR 010 **Design and Synthesis of Amides to Treat Tuberculosis**
Presenter: Nicolette Owen *Mentor: Matthew Hart*
- 12:00 p.m. KC GRR 019 **Nature's Truth Supplement Including Red Beetroot Induce Vasodilation in Porcine Coronary Arteries**
Presenters: Carter Bechtel, Jarrett Budde, Thu Le, Daniel Nichols, Drew Smith, Luis Vidal *Mentor: Francis Sylvester*
- 12:00 p.m. KC GRR 030 **Dancing Away Burnout: Evaluating the Impact of Dance Movement Therapy on Healthcare Workers' Well-being and Compassion Satisfaction**
Presenter: Moira Yaney *Mentor: Afokoghene Odhu*
- 12:00 p.m. KC GRR 031 **Targeting the Human Histamine H3 Receptor for Myelin Repair in Multiple Sclerosis: Computational Identification of Potential Small Molecule Inhibitors**
Presenter: Sophie Stevens *Mentor: Agnieszka Szarecka*
- 12:00 p.m. KC GRR 032 **Urban-Rural Disparities in Trust for Medication Information: Physicians vs. Pharmacists**
Presenter: Kyle Kane *Mentor: Suhila Sawesi*
- 12:00 p.m. KC GRR 035 **Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles**
Presenters: Ella Gaylord, Bryanna Tromp *Mentor: Stephen Glass*
- 12:00 p.m. KC GRR 040 **Incidence of De Novo Arteriovenous Malformations After Mild or Severe Brain Injury: A Case Discussion and Analysis of Similar Reports**
Presenter: Connor Veen *Mentor: John Capodilupo*
- 12:00 p.m. KC GRR 052 **Utilizing High-Temperature Melting for Lanthanide Trichloride Complex Synthesis with dppmO2**
Presenter: Joseph Paganelli *Mentors: John Bender, Shannon Biros*
- 12:00 p.m. KC GRR 057 **Synthesis of Tuberculosis Antibiotics with Various Halogen Substitution**
Presenters: Julianna Cornwell, Catey Engel, Sophia McComb, Anh Lan Nguyen, Brianna Rhodea *Mentor: Matthew Hart*
- 12:00 p.m. KC GRR 059 **Designing Tuberculosis Drugs with Increasing Ester Chains**
Presenter: Corine Elian *Mentor: Matthew Hart*
- 12:00 p.m. KC GRR 063 **Assessing Geohydrological Challenges in Constructing Wetlands Using Monitoring Wells and Sedimentary Profiles at a Field Site in South Central Michigan**
Presenter: Delaney Novach *Mentor: Peter Riemersma*

Poster Presentations

- 12:00 p.m. KC GRR 064 **Synthesis of TB Antibiotics with Naphthylene Substituted Amides**
Presenters: Devin Chung, Tyler Cooper, Beck Shores, Gracie Willett, Elizabeth Yamine *Mentor: Matthew Hart*
- 12:00 p.m. KC GRR 071 **Summer at the Smithsonian: A Conservation Internship**
Presenter: Zachary Glovier *Mentor: Sigrid Danielson*
- 12:00 p.m. KC GRR 073 **Improving Efficiency of Underlying Solvers for Quantum Scattering**
Presenter: Hannah Shaw *Mentor: Erin Carrier*
- 12:00 p.m. KC GRR 075 **Assessing the Impact of Timber Harvesting on Soil Erosion and Sediment Transport in the Au Sable Watershed**
Presenter: Alexander Baetz *Mentor: Sean Woznicki*
- 12:00 p.m. KC GRR 076 **Coral Image Classification Using Underwater Image Enhancement**
Presenters: Dat Nguyen, Minh Tran *Mentors: Denton Bobeldyk, Jonathan Leidig*
- 12:00 p.m. KC GRR 089 **Structural and Functional Studies of Bacilliredoxins: Enzymes Involved in Redox Homeostasis in Gram-Positive Bacteria**
Presenters: Annika Hawley, Lily Sorensen *Mentor: Paul Cook*
- 12:00 p.m. KC GRR 095 **Effects of Dry Needling, Craniosacral Therapy, and Sound Vibration on Brain Waves, Autonomic Regulation and Muscle Tension**
Presenter: Savannah Tormala *Mentor: Eric Ramsson*
- 12:00 p.m. KC GRR 096 **Developing an Intervention Fidelity Measurement Plan: The Em-Power Study**
Presenter: Jordyn Hopgood *Mentor: Lisa Kenyon*
- 12:00 p.m. KC GRR 098 **"We must Cultivate Our Garden": Interpreting Voltaire's Candide (1759)**
Presenter: Aner Schuyler *Mentor: David Eick*
- 1:00 p.m. HRY 001 **An Expanding Role of Protein Kinase N (Pkn) as a Rho1 Effector in Drosophila melanogaster**
Presenters: Molly McGuire, Lia Quatro *Mentor: Georgette Sass*
- 1:00 p.m. HRY 007 **Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations**
Presenter: Griffin Thompson *Mentor: Alexandra Locher*
- 1:00 p.m. HRY 017 **Unsheltered and Underserved: Increasing Access for the Most Vulnerable**
Presenter: Jaimee Ackley *Mentor: Jamie Langlois*
- 1:00 p.m. HRY 022 **Neglected Tropical Diseases as a Doorway to Discuss Science with Kids**
Presenter: Brookelyn Rought *Mentor: Viviane Correa Santos*
- 1:00 p.m. HRY 023 **Health Literacy and Its Impact on Patient Compliance and Health Outcome**
Presenters: Allison Guo, Bree Potter, Madelline Waite *Mentor: Lillianne Nelson*
- 1:00 p.m. HRY 025 **Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the PATHWAYS Project**
Presenters: Daniel Nichols, Abdikeni Sharif *Mentor: Martin Burg*
- 1:00 p.m. HRY 032 **The Impact of an ATG8-Like Gene on Regeneration in Schmidtea mediterranea**
Presenter: Luke Filthaut *Mentor: Matthew Christians*
- 1:00 p.m. HRY 038 **Rescuing Candida albicans Adhesion and Stress Resistance Defects in Yeast-Locked Strains**
Presenter: Chad Britton *Mentors: Ian Cleary, Derek Thomas*
- 1:00 p.m. HRY 043 **Isoforms of GAP-43: Making Connections to Alzheimer's Disease**
Presenters: Kates Krasin, Jamie Valkenburg *Mentor: Jerry Keeney*
- 1:00 p.m. HRY 046 **Diel Dissolved Oxygen Fluxes in Littoral and Open-Water Habitats of Muskegon Lake**
Presenter: John Lawrence *Mentors: Bopaiah Biddanda, Carl Ruetz*
- 1:00 p.m. HRY 057 **Predicting and Learning in the Chemistry Classroom**
Presenter: Lilly Helsel *Mentor: Brittlund DeKorver*
- 1:00 p.m. HRY 058 **Effect of Polar Mutations in Salmonella enterica Serovar Typhimurium Specific Genes on Fitness and Biofilm Formation**
Presenter: Chelsea Aiken *Mentor: Aaron Baxter*
- 1:00 p.m. HRY 064 **Synthesis of Antibiotics to Treat Tuberculosis with Electron Donating Groups and Ester Substitutions**
Presenters: Olivia Ignasiak, Ishmael Nash *Mentor: Matthew Hart*

Poster Presentations

- 1:00 p.m. HRY 065 **From Curiosity to Discovery: Development of a Course-Based Research Experience**
Presenter: Mark Crossen *Mentor: Amanda Karsten*
- 1:00 p.m. HRY 068 **Promoting Paraphernalia in Peru**
Presenters: Amanda Anka, Maxwell Ritchie, Ruth Yeboah *Mentor: Anthony Spencer*
- 1:00 p.m. HRY 071 **Awe and Metaphor**
Presenter: Morgan Braddock *Mentor: Brian Bowdle*
- 1:00 p.m. HRY 080 **Synthesis of TB Antibiotics: Cinnamamide Derivatives**
Presenters: Wesley Barnes, Lucian Forestieri, Evan Mann, Dale VanBaren *Mentor: Matthew Hart*
- 1:00 p.m. HRY 081 **Synthesis and Analysis of Chalcones to Explore Potential Mechanisms in Episulfide Formation**
Presenters: Lucas Anderson, Zachary Glovier *Mentor: John Bender*
- 1:00 p.m. HRY 082 **Characterization of Luminescent Lanthanide Complexes through Coordination Chemistry**
Presenter: Evelyn Schab *Mentors: John Bender, Shannon Biros*
- 1:00 p.m. HRY 093 **Examination of How Expression of the dj-1beta Gene Impacts Oxidative Stress Levels and the Phenotype of the Adult Eye in *Drosophila melanogaster***
Presenter: Jackelyn Palmas *Mentor: Georgette Sass*
- 1:00 p.m. HRY 094 **PDK1 Knockdown in the Presence of Alpha-Synuclein in *Drosophila***
Presenter: Jade Dawson *Mentor: Georgette Sass*
- 1:00 p.m. KC GRR 003 **Healing Through Creativity**
Presenter: Essence Williams *Mentor: Dawn De Vries*
- 1:00 p.m. KC GRR 007 **Analysis of Druggability of Potential Tuberculosis Antibiotics Using Lipinski's Rule of Five**
Presenter: Nicolette Owen *Mentor: Matthew Hart*
- 1:00 p.m. KC GRR 008 **Understanding Bicuspid Aortic Valve: Global Prevalence, Genetic Factors, Long-Term Outcomes, Treatment Approaches and Knowledge Gaps**
Presenter: Ashley Sligh *Mentor: Ruijie Liu*
- 1:00 p.m. KC GRR 009 **Mercury Analysis of Chironomidae Larva and Sediment Within Two Western Michigan Lakes**
Presenter: Mitchell Fedewa *Mentor: Ryan Otter*
- 1:00 p.m. KC GRR 011 **Insights into Molybdenum Toxicity in an Invertebrate Model for Applications in Atherosclerotic Cardiovascular Disease**
Presenter: Brianna Hofman *Mentors: Babasola Fateye, Maria Kwesiga*
- 1:00 p.m. KC GRR 013 **Using Chalcones to Explore Carbonyl Chemistry**
Presenters: Matthew Bays, Richard Villegas *Mentor: John Bender*
- 1:00 p.m. KC GRR 021 **Environmental Connectivity's Effect on Evolutionary Dynamics**
Presenter: Grant Gordon *Mentor: Alexander Lalejini*
- 1:00 p.m. KC GRR 028 **Social Justice Begins with ME!**
Presenters: Mackenzie Donohue, Cassandra Lekas *Mentors: Jamie Langlois, Emily Nichols*
- 1:00 p.m. KC GRR 030 **Dancing Away Burnout: Evaluating the Impact of Dance Movement Therapy on Healthcare Workers' Well-being and Compassion Satisfaction**
Presenter: Moira Yaney *Mentor: Afokoghene Odhu*
- 1:00 p.m. KC GRR 035 **Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles**
Presenters: Lillian Curtis, Morgan Righter *Mentor: Stephen Glass*
- 1:00 p.m. KC GRR 036 **Excavating Compliance: Repatriation and Museum Ethics**
Presenter: Emma Elliott *Mentor: Steven Dorland*
- 1:00 p.m. KC GRR 040 **Incidence of De Novo Arteriovenous Malformations After Mild or Severe Brain Injury: A Case Discussion and Analysis of Similar Reports**
Presenter: Connor Veen *Mentor: John Capodilupo*
- 1:00 p.m. KC GRR 047 **Biochemical Characterization of ADC-172, a Class C Beta Lactamase from *Acinetobacter baumannii***
Presenter: Sierra Papa *Mentor: Rachel Powers*
- 1:00 p.m. KC GRR 048 **Testing a Mindful Intervention to Reduce Cell Phone Use in College Students**
Presenters: Grace Nieboer, Emily Shane *Mentor: Amanda Dillard*

Poster Presentations

- 1:00 p.m. KC GRR 059 **Designing Tuberculosis Drugs with Increasing Ester Chains**
Presenter: Diana Marroquin *Mentor: Matthew Hart*
- 1:00 p.m. KC GRR 064 **Synthesis of TB Antibiotics with Naphthylene Substituted Amides**
Presenters: Devin Chung, Tyler Cooper, Beck Shores, Gracie Willett, Elizabeth Yamine *Mentor: Matthew Hart*
- 1:00 p.m. KC GRR 067 **The Burden of Disease: Impacts on the Occupied Palestinian Territory**
Presenter: Aner Schuyler *Mentor: John Gabrosek*
- 1:00 p.m. KC GRR 073 **Improving Efficiency of Underlying Solvers for Quantum Scattering**
Presenter: Hannah Shaw *Mentor: Erin Carrier*
- 1:00 p.m. KC GRR 074 **Exploration of Vulnerabilities and Threat Mitigation of Service Function Chaining in Fog Computing**
Presenters: Fahim Morshed, Trevor Ouma *Mentor: Sara Sutton*
- 1:00 p.m. KC GRR 076 **Coral Image Classification Using Underwater Image Enhancement**
Presenters: Dat Nguyen, Minh Tran *Mentors: Denton Bobeldyk, Jonathan Leidig*
- 1:00 p.m. KC GRR 082 **Mutational Analysis of Aminoglycoside Nucleotidyltransferase(6)-Ia from *Bacillus subtilis***
Presenter: Angela Tran *Mentor: Brian Smith*
- 1:00 p.m. KC GRR 085 **Single Entity Electrochemical Collisions of *S. saprophyticus* in Iodide Solutions at Au Ultramicroelectrodes**
Presenter: Grace Connelly *Mentor: Scott Thorgaard*
- 1:00 p.m. KC GRR 100 **Relationship Between Mood and Cytokines in Treatment-Seeking Veterans.**
Presenters: Karis Gillen, Natasha Vaughn, Breanna Wallace *Mentor: Elizabeth Flandreau*
- 2:00 p.m. HRY 007 **Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations**
Presenter: Griffin Thompson *Mentor: Alexandra Locher*
- 2:00 p.m. HRY 014 **Restrictions, Laws and Unfamiliarity: A Study of LGBTQ+ Perceptions and Concerns on Visiting Non-Western Cultures**
Presenter: Kaitlyn Martin *Mentor: Mohammed Lefrid*
- 2:00 p.m. HRY 025 **Exploring Insulin Signaling Genes Across *Drosophila* Genomes: A Classroom Research Experience in Comparative Genomics using the PATHWAYS Project**
Presenter: Taylor Wimberley *Mentor: Martin Burg*
- 2:00 p.m. HRY 041 **Exploring Selenium Chemistry: Synthesis and Characterization of Novel Organoselenium and Phosphorus Compounds**
Presenters: Jaden Baldwin, Parker Van Ess *Mentor: John Bender*
- 2:00 p.m. HRY 043 **Isoforms of GAP-43: Making Connections to Alzheimer's Disease**
Presenter: Cleary Welsh *Mentor: Jerry Keeney*
- 2:00 p.m. HRY 045 **Modeling Molten Lithium Carbonate**
Presenter: Samuel Owen *Mentor: Christopher Lawrence*
- 2:00 p.m. HRY 055 **Macroinvertebrate Beta Diversity Across Wetlands in a Lake Michigan Freshwater Estuary**
Presenter: Brenden Reid *Mentor: Matthew Cooper*
- 2:00 p.m. HRY 064 **Synthesis of Antibiotics to Treat Tuberculosis with Electron Donating Groups and Ester Substitutions**
Presenters: Zachary Schafer, Ava Stefanski *Mentor: Matt Hart*
- 2:00 p.m. HRY 065 **From Curiosity to Discovery: Development of a Course-Based Research Experience**
Presenter: Mark Crossen *Mentor: Amanda Karsten*
- 2:00 p.m. HRY 071 **Awe and Metaphor**
Presenter: Joseph Bombassei *Mentor: Brian Bowdle*
- 2:00 p.m. HRY 084 **Investigating Shared and Unique Associations on People-related Terms in School-aged Children and Large Language Models (LLMs - ChatGPT)**
Presenter: Natalie Cleary *Mentor: Josita Maouene-Cavin*
- 2:00 p.m. HRY 092 **Preoperational Thinking and Conspiratorial Belief**
Presenters: Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck *Mentors: Brian Bowdle, Mario Fific*
- 2:00 p.m. HRY 093 **Examination of How Expression of the dj-1beta Gene Impacts Oxidative Stress Levels and the Phenotype of the Adult Eye in *Drosophila melanogaster***
Presenter: Jackelyn Palmas *Mentor: Georgette Sass*

Poster Presentations

- 2:00 p.m. HRY 103 **Transfer of Cellulolytic Gene Cel7a into *E. Coli***
Presenter: Cayden Steinebach *Mentor: Doug Graham*
- 2:00 p.m. KC GRR 006 **Determining the Identity of Histamine Metabolites in the CNS of *Drosophila melanogaster* Using Mutations that Disrupt Histamine Metabolism**
Presenter: Lola Piper *Mentor: Martin Burg*
- 2:00 p.m. KC GRR 011 **Insights into Molybdenum Toxicity in an Invertebrate Model for Applications in Atherosclerotic Cardiovascular Disease**
Presenter: Brianna Hofman *Mentors: Babasola Fateye, Maria Kwesiga*
- 2:00 p.m. KC GRR 015 **Impact of Nitration of Various Phosphines for Use in Lewis Acid/Base Reactions with Various Heavy Metals**
Presenters: Michelle Brown, Rachel Duford, Owen Smythe *Mentor: John Bender*
- 2:00 p.m. KC GRR 018 **Understanding Support: Experiences of African International Students in U.S. Universities**
Presenter: Ophelia Zornu *Mentor: Jamie Langlois*
- 2:00 p.m. KC GRR 028 **Social Justice Begins with ME!**
Presenter: Della Chia *Mentors: Jamie Langlois, Emily Nichols*
- 2:00 p.m. KC GRR 030 **Dancing Away Burnout: Evaluating the Impact of Dance Movement Therapy on Healthcare Workers' Well-being and Compassion Satisfaction**
Presenter: Moira Yaney *Mentor: Afokoghene Odhu*
- 2:00 p.m. KC GRR 034 **Exercise as a Remedy: Combating Nursing Student Burnout Through Physical Activity**
Presenters: Sabina Anti, Brianna Bredeweg, Paul Warutumo *Mentor: Madison Goodyke*
- 2:00 p.m. KC GRR 035 **Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles**
Presenters: Lillian Curtis, Meghan VanDalen *Mentor: Stephen Glass*
- 2:00 p.m. KC GRR 036 **Excavating Compliance: Repatriation and Museum Ethics**
Presenter: Emma Elliott *Mentor: Steven Dorland*
- 2:00 p.m. KC GRR 048 **Testing a Mindful Intervention to Reduce Cell Phone Use in College Students**
Presenters: Grace Nieboer, Emily Shane *Mentor: Amanda Dillard*
- 2:00 p.m. KC GRR 051 **Understanding Partner Social Dance: Motion Analysis of Salsa Dance**
Presenter: Magdalen Kyi *Mentors: Stephen Glass, Yunju Lee*
- 2:00 p.m. KC GRR 064 **Synthesis of TB Antibiotics with Naphthylene Substituted Amides**
Presenters: Devin Chung, Tyler Cooper, Beck Shores, Gracie Willett, Elizabeth Yamine *Mentor: Matthew Hart*
- 2:00 p.m. KC GRR 070 **Prospective Associations Between Trait Mindfulness, Health Behaviors, and Behavioral Intentions in College Students**
Presenter: Mya Hanna *Mentor: Amanda Dillard*
- 2:00 p.m. KC GRR 075 **Assessing the Impact of Timber Harvesting on Soil Erosion and Sediment Transport in the Au Sable Watershed**
Presenter: Alexander Baetz *Mentor: Sean Woznicki*
- 2:00 p.m. KC GRR 076 **Coral Image Classification Using Underwater Image Enhancement**
Presenters: Dat Nguyen, Minh Tran *Mentors: Denton Bobeldyk, Jonathan Leidig*
- 2:00 p.m. KC GRR 085 **Single Entity Electrochemical Collisions of *S. saprophyticus* in Iodide Solutions at Au Ultramicroelectrodes**
Presenter: Grace Connelly *Mentor: Scott Thorgaard*
- 2:00 p.m. KC GRR 097 **Number Sequences Generated by the Edge Covers of Fan Graphs**
Presenter: Marshall Nicholson *Mentor: Feryal Alayont*
- 2:00 p.m. KC GRR 110 **Sugarloaf Key, Revisited: New Mineralogical and Stable Isotope Data from a Modern Dolomite-Forming Environment**
Presenter: Noah Valentine *Mentor: Ian Winkelstern*
- 3:00 p.m. HRY 006 **Synthesis and Reactivity of Phosphine Oxide and Selenium Compounds**
Presenters: Abigail Miller, Nicolette Owen *Mentor: John Bender*
- 3:00 p.m. HRY 008 **Design, Synthesis and Evaluation of Novel Triazole Derivatives to Treat Tuberculosis**
Presenters: Tung Hoang, Taylor Meade *Mentor: Matthew Hart*

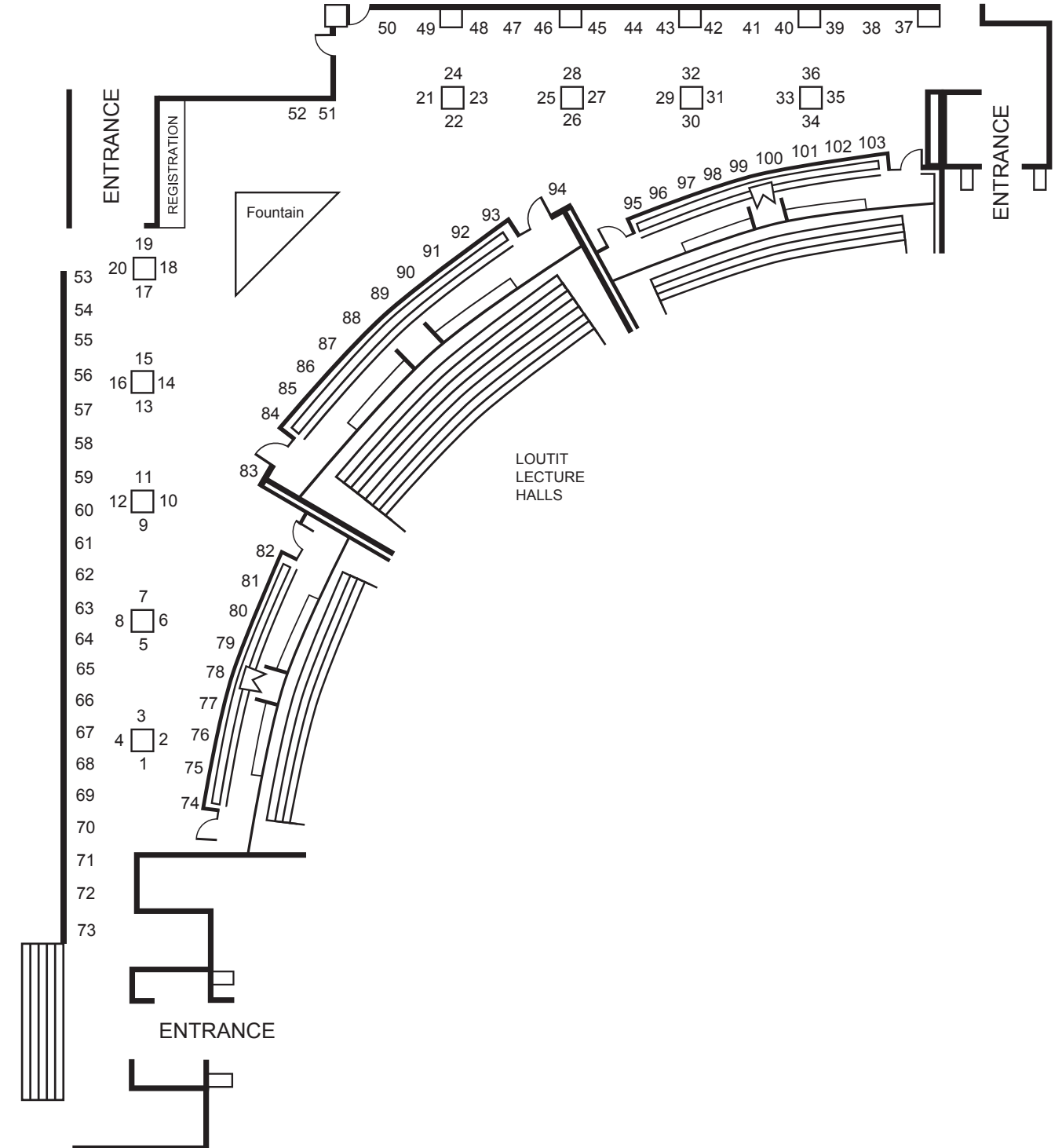
Poster Presentations

- 3:00 p.m. HRY 014 **Restrictions, Laws and Unfamiliarity: A Study of LGBTQ+ Perceptions and Concerns on Visiting Non-Western Cultures**
Presenter: Kaitlyn Martin *Mentor: Mohammed Lefrid*
- 3:00 p.m. HRY 028 **The Effects of Cannabinoids on Eating Behaviors in Rodents**
Presenter: Ethan Schroeder *Mentor: Natasha Swalve*
- 3:00 p.m. HRY 056 **Macroinvertebrate Beta Diversity Across Wetlands in a Lake Michigan Freshwater Estuary**
Presenter: Alexis Deephouse *Mentor: Matthew Cooper*
- 3:00 p.m. HRY 071 **Awe and Metaphor**
Presenter: Ian Wilson *Mentor: Brian Bowdle*
- 3:00 p.m. HRY 072 **The Composition of the Gut Microbiome Modulates *C. elegans* Fitness in the Face of Viral Infection and Drug Exposure**
Presenter: Cayden Steinebach *Mentor: Doug Graham*
- 3:00 p.m. HRY 075 **Michigan Tri-Share Policy Analysis and Evaluation**
Presenters: Madalyn Fuhr, Lacey Jones, Michael Luke, Jackson Richmond, Lauren Robar *Mentor: Raymond Higbea*
- 3:00 p.m. HRY 092 **Preoperational Thinking and Conspiratorial Belief**
Presenters: Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck *Mentors: Brian Bowdle, Mario Fific*
- 3:00 p.m. KC GRR 002 **Dogs 'n' Roses**
Presenter: Summer Selles *Mentor: Dawn De Vries*
- 3:00 p.m. KC GRR 004 **Synthesis, Spectroscopy, and Computational Investigations of 2-Cyano Phosphorine**
Presenter: Rachel Duford *Mentors: John Bender, Richard Lord*
- 3:00 p.m. KC GRR 006 **Determining the Identity of Histamine Metabolites in the CNS of *Drosophila melanogaster* Using Mutations that Disrupt Histamine Metabolism**
Presenter: Lola Piper *Mentor: Martin Burg*
- 3:00 p.m. KC GRR 015 **Impact of Nitration of Various Phosphines for Use in Lewis Acid/Base Reactions with Various Heavy Metals**
Presenter: Michelle Brown *Mentor: John Bender*
- 3:00 p.m. KC GRR 022 **Establishing Rater Reliability in a Clinical Trial of Power Wheelchair Skills Training for Children with Cerebral Palsy**
Presenter: Micah Gordon *Mentor: Lisa Kenyon*
- 3:00 p.m. KC GRR 035 **Erector and Paraspinal Muscle Activation During Backward Torso Rotation Using Fiberglass Resistance Poles**
Presenters: Noah Hadley, Jacob Mertes *Mentor: Stephen Glass*
- 3:00 p.m. KC GRR 045 **The Olive Tree Collection**
Presenter: Ian McGuckin *Mentor: David Alvarez*
- 3:00 p.m. KC GRR 048 **Testing a Mindful Intervention to Reduce Cell Phone Use in College Students**
Presenters: Grace Nieboer, Emily Shane *Mentor: Amanda Dillard*
- 3:00 p.m. KC GRR 051 **Understanding Partner Social Dance: Motion Analysis of Salsa Dance**
Presenters: Jackson Farrell, Kelly Peregrine *Mentors: Stephen Glass, Yunju Lee*
- 3:00 p.m. KC GRR 058 **Voices in the Void**
Presenter: Breezy Rusher *Mentor: David Zwart*
- 3:00 p.m. KC GRR 059 **Designing Tuberculosis Drugs with Increasing Ester Chains**
Presenter: Evelyn Schab *Mentor: Matthew Hart*
- 3:00 p.m. KC GRR 060 **Communication Strategies and Health Literacy for Patients Diagnosed with Age-Related Macular Degeneration (AMD): A Scoping Review**
Presenters: Niam Aboalsaman, Ethan Fulton, Sydney Greene, Jack Miller *Mentor: Julia VanderMolen*
- 3:00 p.m. KC GRR 075 **Assessing the Impact of Timber Harvesting on Soil Erosion and Sediment Transport in the Au Sable Watershed**
Presenter: Alexander Baetz *Mentor: Sean Woznicki*
- 3:00 p.m. KC GRR 093 **Rheumatic Heart Disease in Sub-Saharan Africa: What Is It and What Can We Do?**
Presenter: Esther Bard *Mentor: Ruijie Liu*

Poster Presentations

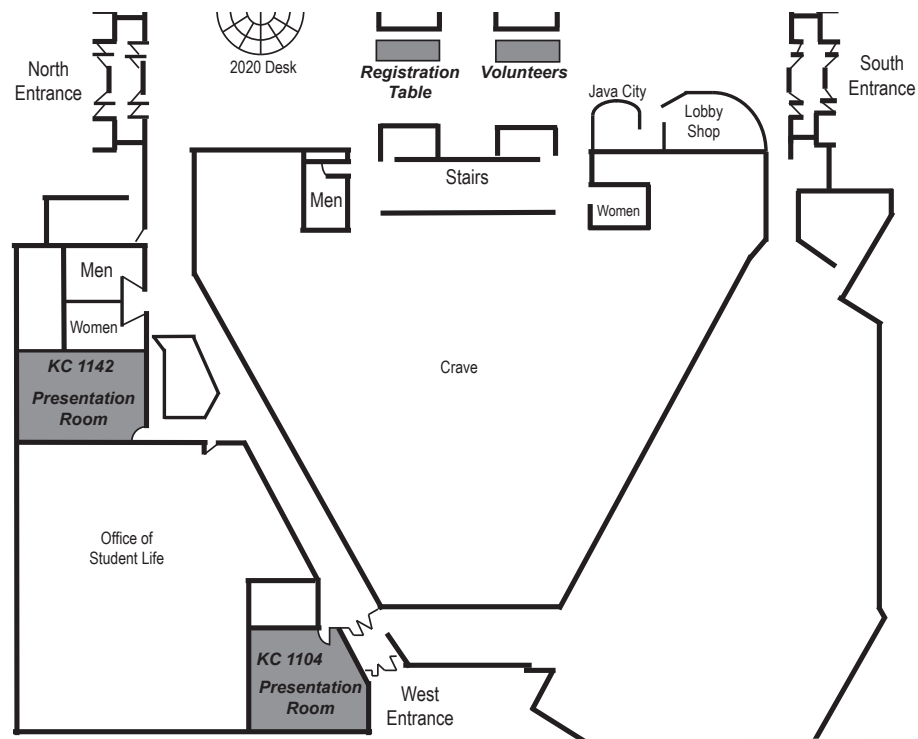
- 4:00 p.m. HRY 025 **Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the PATHWAYS Project**
Presenter: Jessica Lukins *Mentor: Martin Burg*
- 4:00 p.m. HRY 045 **Modeling Molten Lithium Carbonate**
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- 4:00 p.m. HRY 056 **Macroinvertebrate Beta Diversity Across Wetlands in a Lake Michigan Freshwater Estuary**
Presenter: Alexis Deephouse *Mentor: Matthew Cooper*
- 4:00 p.m. HRY 074 **Influence of Redox Species Identity on Analyte Particle Transport in Single Entity Electrochemical Collisions**
Presenter: Robert Dean *Mentor: Scott Thorgaard*
- 4:00 p.m. HRY 075 **Michigan Tri-Share Policy Analysis and Evaluation**
Presenters: Madalyn Fuhr, Lacey Jones, Michael Luke, Jackson Richmond, Lauren Robar
Mentor: Raymond Higbea
- 4:00 p.m. HRY 091 **In Silico Analysis of Echinocandin Binding Modes to FKS1, 1,3-β-Glucan Synthase**
Presenter: Devin Chung *Mentors: Jack Sanford, Agnieszka Szarecka*
- 4:00 p.m. HRY 101 **Ghrelin and Stress-Related Behavior Following Long-Term Alcohol Withdrawal**
Presenters: Alleigh Michalek, Arnica Sheaffer *Mentor: Glenn Valdez*
- 4:00 p.m. KC GRR 006 **Determining the Identity of Histamine Metabolites in the CNS of Drosophila melanogaster Using Mutations that Disrupt Histamine Metabolism**
Presenter: Lola Piper *Mentor: Martin Burg*
- 4:00 p.m. KC GRR 014 **Fresh Start: Expungement For Homeless Communities**
Presenters: Aubrey Brearley, Hannah DeVries, Madison Post, MeKare Stoffers, LaTonia Vernon
Mentor: Jamie Langlois
- 4:00 p.m. KC GRR 022 **Establishing Rater Reliability in a Clinical Trial of Power Wheelchair Skills Training for Children with Cerebral Palsy**
Presenter: Micah Gordon *Mentor: Lisa Kenyon*
- 4:00 p.m. KC GRR 024 **Mammalian Teeth from the Great Divide Basin**
Presenter: Rose Pulte *Mentor: Natalie Laudicina*
- 4:00 p.m. KC GRR 026 **Synthesis and Microbiological Testing of Potential Tuberculosis Antibiotics**
Presenters: Nicole Denz, Thien Anh Hoang *Mentor: Matthew Hart*
- 4:00 p.m. KC GRR 048 **Testing a Mindful Intervention to Reduce Cell Phone Use in College Students**
Presenters: Grace Nieboer, Emily Shane *Mentor: Amanda Dillard*
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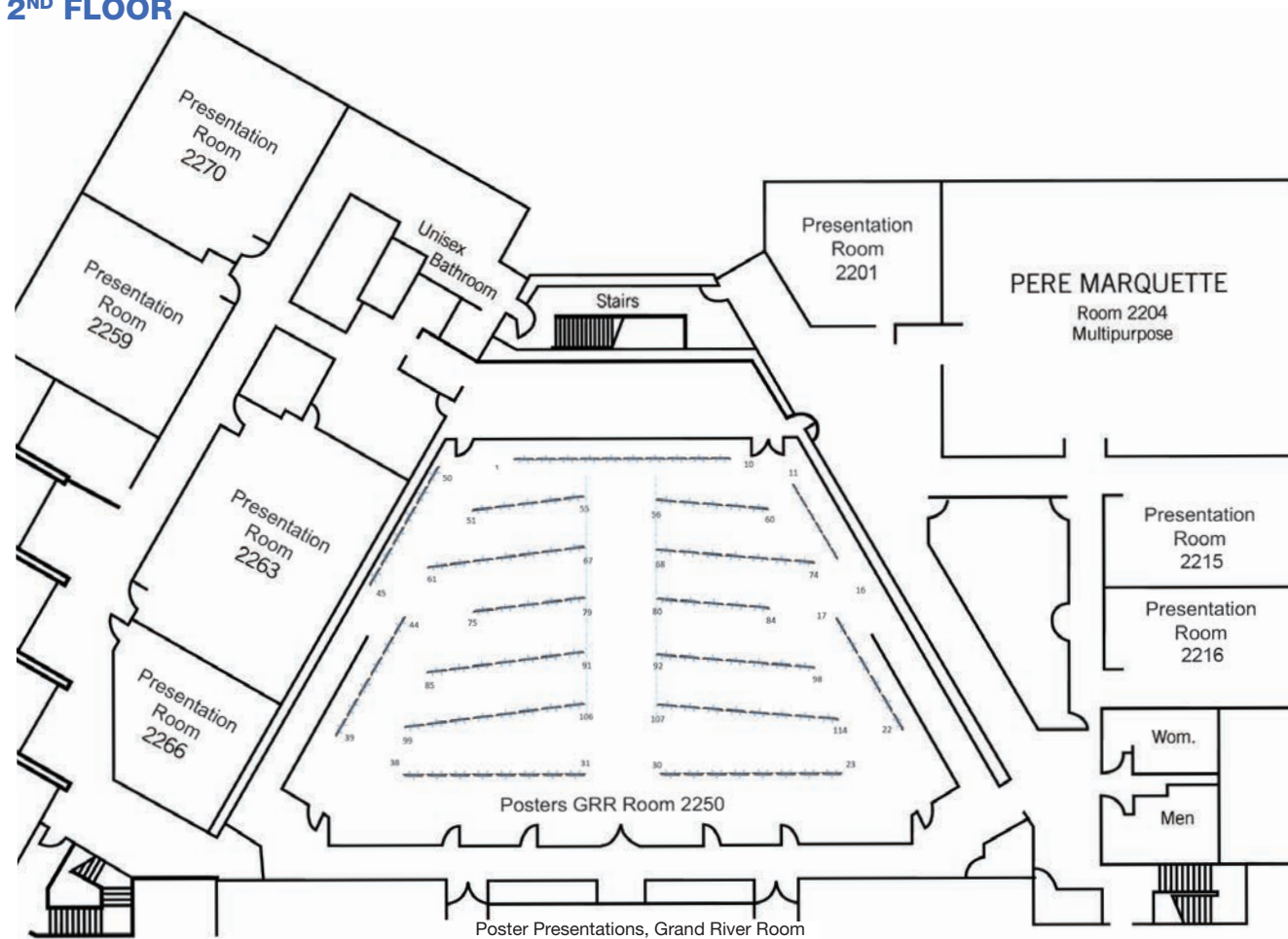


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