



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 mathmatics. 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.

Othe

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

GVSU • STUDENT SCHOLARS DAY 2025

GVSU • STUDENT SCHOLARS DAY 2025



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: Al and the Evolution of Science, Tech, and Culture, invites us to examine how artificial intelligence is reshaping knowledge, creativity, and truth itself.

As Al becomes increasingly embedded in our daily lives, it raises profound questions—Who controls the data? Are we educating students to use Al well (in shaping queries for Al, in analyzing results of Al 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 Al? 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 Willliams, 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.



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.



Abstracts in PD



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.



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 pridefully 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.



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



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.



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.

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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





Co-Sponsored by: Digital Studies

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 wellintentioned, 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.



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 Marguette 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.

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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 Vervaet 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





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



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 A5,4 and A5.5 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 A5,6 and A3,1 + R2 Nilradicals.

Jordan Edwards
Mentor: Firas Hindeleh



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: Natashia Swalve

Preoperational Thinking and Conspiratorial Belief

Elias Ghazal, Mya Hanna, Tessa Kramer, Kendall Shattuck

Mentors: Brian Bowdle & Mario Fific



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**

GVSU • STUDENT SCHOLARS DAY 2025 GVSU • STUDENT SCHOLARS DAY 2025



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 Dehumanization of Palestinians: How Western Media Uses Orientalism To Minimize Palestinian Struggle
 Jeneen Ghannam
- The Perfect Victim: Rethinking Western Media Construction of Victims of Domestic Minor Sex Trafficking
 Morgan Bernardi



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 <i>Mentor: Dawn De Vries</i>
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 <i>Mentor: Jiaxin Du</i>
9:00 a.m.	KC 2259	Burial Practices of Stone Age Populations from Southeast Europe Presenter: Sofiia 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 Sutliffe
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 <i>Mentor: Dawn De Vries</i>
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 <i>Mentor: Dawn De Vries</i>
10:00 a.m.	KC 2266	Abortion on the Ballot: Analysis of Abortion Referenda in the 2022 and 2024 Elections Presenter: Nancy Boyd <i>Mentor: Thomas Walker</i>
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 <i>Mentor: Dawn De Vries</i>
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 <i>Mentor: Brian Deyo</i>
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 <i>Mentor: Sango Otieno</i>
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 <i>Mentor: Anthony Spencer</i>
11:00 a.m.	KC 2270	Presenting Prettily: Cosmetics and Body Modifications in Antiquity and How They Were Used Presenter: Elyse Karasinski <i>Mentor: Melissa Morison</i>
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 <i>Mentors: John Reynolds, Sango Otieno</i>
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

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Oral Presentations

12:00 p.m.	KC 1104	Finding Balance: The Power of Tai Chi in Combating Depression and Anxiety Presenters: Elisabeth Vogt, Lillian Scripter, Anna Schlutt, Jacie Burk Mentor: Dawn De Vries
12:00 p.m.	KC 2266	We Do Not Accept OPT!: 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, Nathanial 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 Traum in The Silence of the Girls Presenter: Lilian Hevron <i>Mentor: Melissa Morison</i>
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 Bleyenberg, 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 <i>Mentor: Melissa Morison</i>



!	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 <i>Mentor: Kin Ma</i>
!	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 <i>Mentor: Georgette Sass</i>
!	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 <i>Mentor: Francis Sylvester</i>
!	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 Al in Job Crafting - Literature Review and Proposed Model Presenter: Zachary Spencer <i>Mentor: Benjamin Walsh</i>
!	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 <i>Mentor: John Bender</i>
!	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 <i>Mentor: Kin Ma</i>
!	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 <i>Mentor: Elizabeth Davis</i>
!	9:00 a.m.	HRY 086	Lanthanide and Actinide Coordination Chemistry Using Butyl-substituted Multidentate CMPO Compounds Presenter: Brianna Gordon <i>Mentor: Shannon Biros</i>

	Poster	Presentations
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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 <i>Drosophila melanogaster</i> Presenter: Jackelyn Palmas <i>Mentor: Georgette Sass</i>
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 <i>Mentor: Laura Stroik</i>
9:00 a.m.	HRY 097	Histological Analysis of <i>Macaca mulatta</i> Dura Mater Collagen Fiber Organization Presenter: Hope Fischer <i>Mentor: Chris Reed</i>
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 <i>Drosophila melanogaster</i> Using Mutations that Disrupt Histamine Metabolism Presenter: Lola Piper <i>Mentor: Martin Burg</i>
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 <i>Mentors: Natalie Laudicina, Chris Reed, Dawn Richiert, Laura Stroik</i>
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 <i>Mentor: Stephen Glass</i>
9:00 a.m.	KC GRR 056	A Data-Driven Analysis of Health Informatics Graduate Education in the United States Presenters: Michael Irungu, Pranitha 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: lan Winkelstern
9:00 a.m.	KC GRR 065	Algal Responses to Nitrogen and Phosphorus Inputs in Wetlands of a Large River Mouth Ecosyster 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 <i>Mentor: Amanda Dillard</i>



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 <i>D. melanogaster</i> Presenter: Leonel Estudillo-Vazquez <i>Mentor: Georgette Sass</i>
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: Lilianne 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 <i>Mentor: Heather Moody</i>
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: Lilianne 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 <i>Mentor: Kin Ma</i>
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 Thorogard

Presenter: Robert Dean Mentor: Scott Thorgaard



Poster	Fresentations
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 a 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 Fift
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 <i>Mentor: Chris Pearl</i>
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 <i>Mentor: Kristy Dean</i>
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 <i>Mentor: Jamie Langlois</i>
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 <i>Mentor: Dawn De Vries</i>
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 Worker 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 <i>Mentor: Sarah Kearney</i>
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: Pranitha Presingu <i>Mentor: Suhila Sawesi</i>
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



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 Sutliffe
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: Natashia 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 Sutliffe
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 <i>Mentor: Alexandra Locher</i>
11:00 a.m. HRY 011	Structural Weight Stigma in Healthcare Presenter: Magdalyn Hallead <i>Mentor: Rachel Fox</i>
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 Sutliffe
11:00 a.m. HRY 016	Bridging the Gap: Integrating Basic Needs Assessment in University Counseling Center Triage Presenter: Toni Butler <i>Mentor: Jamie Langlois</i>
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: Lilianne Nelson
11:00 a.m. HRY 031	Artificial Intelligence in Hematological Diagnostics: Advances and Challenges Presenters: Aileen Botello, Danielle Howell, Mirka Osorio Mentor: Lilianne Nelson
11:00 a.m. HRY 043	Isoforms of GAP-43: Making Connections to Alzheimer's Disease Presenter: Kates Krasin Mentor: Jerry Keeney

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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 <i>Mentor: Eric Snyder</i>
11:00 a.m. HRY 048	U.S. Mental Maps of Northern Lower Peninsula Michiganders: Mapping Perceptions of the U.S. Sou Presenter: Alexandra Jorns <i>Mentor: Kin Ma</i>
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 <i>Mentor: Leigh Anne DeNotto</i>
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 <i>Mentors: Brian Bowdle, Mario Fific</i>
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 <i>Mentor: Kristy Dean</i>
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 VanSuilichem <i>Mentor: Lilianne Nelson</i>
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 Antibiot ics Presenters: Nicole Denz, Thien Anh Hoang <i>Mentor: Matthew Hart</i>
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 <i>Mentor: Kristy Dean</i>
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 <i>Drosophila melanogaster</i> : Insights into Developmental Defect and Wing Morphology Presenter: Lia Quatro <i>Mentor: Georgette Sass</i>
11:00 a.m. KC GRR 046	Exploring the Correlation Between Emotional Well-being and Academic Success in College Student Using AgileBrain Presenter: Caroline De Roo Mentor: Babasola Fateye



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 <i>Mentor: lan Winkelstern</i>
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 Sutliffe
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 <i>Drosophila melanogaster</i> Presenter: Daniela De Andrade <i>Mentor: Georgette Sass</i>
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 <i>D. melanogaster</i> to Determine Where Histamine Acetylation is Occuring <i>in vivo</i> Presenter: Margaret Cubitt <i>Mentor: Martin Burg</i>
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 <i>Mentor: Deborah Herrington</i>
12:00 p.m. HRY 011	Structural Weight Stigma in Healthcare Presenter: Magdalyn Hallead <i>Mentor: Rachel Fox</i>
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 Sutliffe
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 <i>Mentor: Lilianne Nelson</i>
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 <i>Mentor: Kin Ma</i>
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

Presenter: Mark Crossen Mentor: Amanda Karsten

	Poster	Presentations
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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 <i>Mentor: Rachel Powers</i>
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 an Large Language Models (LLMs - ChatGPT) Presenter: Andrea Essmaker Mentor: Josita Maouene-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 <i>Mentor: Kin Ma</i>
12:00 p.m. KC GRR 00	Neurodivergence: The Divergence of a Term Presenter: Emily Seburn Mentor: Coeli Fitzpatrick
12:00 p.m. KC GRR 0	0 Design and Synthesis of Amides to Treat Tuberculosis Presenter: Nicolette Owen Mentor: Matthew Hart
12:00 p.m. KC GRR 0	9 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 00	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 03	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 03	Urban-Rural Disparities in Trust for Medication Information: Physicians vs. Pharmacists Presenter: Kyle Kane <i>Mentor: Suhila Sawesi</i>
12:00 p.m. KC GRR 03	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 04	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 05	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 05	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 05	Designing Tuberculosis Drugs with Increasing Ester Chains Presenter: Corine Elian Mentor: Matthew Hart
12:00 p.m. KC GRR 06	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



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 <i>Mentor: Paul Cook</i>
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 <i>Mentor: Lisa Kenyon</i>
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 <i>Drosophila melanogaster</i> Presenters: Molly McGuire, Lia Quatro <i>Mentor: Georgette Sass</i>
1:00 p.m.	HRY 007	Habitat Hero: Community Science and Participatory GIS as a Framework for Urban Pollinator Habitat Restorations Presenter: Griffin Thompson <i>Mentor: Alexandra Locher</i>
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: Lilianne 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 <i>Mentor: Martin Burg</i>
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: Brittland DeKorver
1:00 p.m.	HRY 058	Effect of Polar Mutations in <i>Salmonella enterica</i> Serovar Typhimurium Specific Genes on Fitness and Biofilm Formation Presenter: Chelsea Aiken <i>Mentor: Aaron Baxter</i>
1:00 p.m.	HRY 064	Synthesis of Antibiotics to Treat Tuberculosis with Electron Donating Groups and Ester Substitutions Presenters: Olivia Ignasiak, Ishmael Nash <i>Mentor: Matthew Hart</i>

	Poster	Presentations
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1:00 p.m.	HRY 065	From Curiosity to Discovery: Development of a Course-Based Research Experience Presenter: Mark Crossen <i>Mentor: Amanda Karsten</i>
1:00 p.m.	HRY 068	Promoting Paraphernalia in Peru Presenters: Amanda Anka, Maxwell Ritchie, Ruth Yeboah <i>Mentor: Anthony Spencer</i>
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 <i>Mentor: John Bender</i>
1:00 p.m.	HRY 082	Characterization of Luminescent Lanthanide Complexes through Coordination Chemistry Presenter: Evelyn Schab <i>Mentors: John Bender, Shannon Biros</i>
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 <i>Drosophila melanogaster</i> Presenter: Jackelyn Palmas <i>Mentor: Georgette Sass</i>
1:00 p.m.	HRY 094	PDK1 Knockdown in the Presence of Alpha-Synuclein in Drosophila Presenter: Jade Dawson <i>Mentor: Georgette Sass</i>
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 <i>Mentor: Ruijie Liu</i>
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 baumannia 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



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 <i>Mentor: Sara Sutton</i>
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)-la from Bacillus subtilis Presenter: Angela Tran Mentor: Brian Smith
1:00 p.m.	KC GRR 085	Single Entity Electrochemical Collisions of <i>S. saprophyticus</i> in Iodide Solutions at Au Ultramicroelectrodes Presenter: Grace Connelly <i>Mentor: Scott Thorgaard</i>
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 <i>Mentor: Alexandra Locher</i>
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 <i>Mentor: Martin Burg</i>
2:00 p.m.	HRY 041	Exploring Selenium Chemistry: Synthesis and Characterization of Novel Organoselenium and Phosphorus Compounds Presenters: Jaden Baldwin, Parker Van Ess <i>Mentor: John Bender</i>
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 <i>Mentor: Matt Hart</i>
2:00 p.m.	HRY 065	From Curiosity to Discovery: Development of a Course-Based Research Experience Presenter: Mark Crossen <i>Mentor: Amanda Karsten</i>
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 <i>Drosophila melanogaster</i> Presenter: Jackelyn Palmas <i>Mentor: Georgette Sass</i>

	Poster	Presentations
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2:00 p.m.	HRY 103	Transfer of Cellulolytic Gene Cel7a into <i>E. Coli</i> Presenter: Cayden Steinebach <i>Mentor: Doug Graham</i>
2:00 p.m.	KC GRR 006	Determining the Identity of Histamine Metabolites in the CNS of <i>Drosophila melanogaster</i> Using Mutations that Disrupt Histamine Metabolism Presenter: Lola Piper <i>Mentor: Martin Burg</i>
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 <i>Mentor: Jamie Langlois</i>
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 <i>Mentor: lan Winkelstern</i>
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 <i>Mentor: Matthew Hart</i>

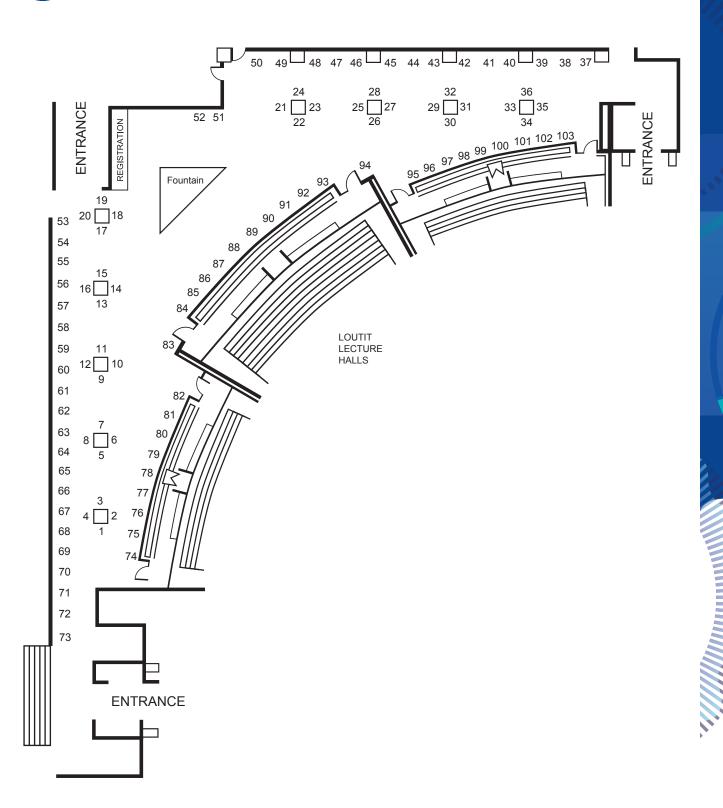


3:00 p.m.	HRY 014	Restrictions, Laws and Unfamiliarity: A Study of LGBTQ+ Perceptions and Concerns on Visiting Non-Western Cultures Presenter: Kaitlyn Martin Mentor: Mohammed Lefrid
3:00 p.m.	HRY 028	The Effects of Cannabinoids on Eating Behaviors in Rodents Presenter: Ethan Schroeder Mentor: Natashia 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. <i>elegans</i> Fitness in the Face of Viral Infection and Drug Exposure Presenter: Cayden Steinebach <i>Mentor: Doug Graham</i>
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 <i>Mentors: John Bender, Richard Lord</i>
3:00 p.m.	KC GRR 006	Determining the Identity of Histamine Metabolites in the CNS of <i>Drosophila melanogaster</i> Using Mutations that Disrupt Histamine Metabolism Presenter: Lola Piper <i>Mentor: Martin Burg</i>
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 Abooalsaman, Ethan Fulton, Sydnie 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 <i>Mentor: Ruijie Liu</i>

Poster Presentations

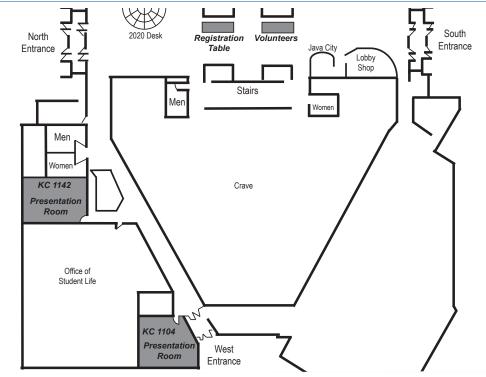
4:00 p.m.	HRY 025	Exploring Insulin Signaling Genes Across Drosophila Genomes: A Classroom Research Experience in Comparative Genomics using the PATHWAYS Project Presenter: Jessica Lukins <i>Mentor: Martin Burg</i>
4:00 p.m.	HRY 045	Modeling Molten Lithium Carbonate Presenter: Samuel Owen Mentor: Christopher Lawrence
4:00 p.m.	HRY 056	Macroinvertebrate Beta Diversity Across Wetlands in a Lake Michigan Freshwater Estuary Presenter: Alexis Deephouse <i>Mentor: Matthew Cooper</i>
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, 1,3Glucan 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 <i>Drosophila melanogaster</i> Using Mutations that Disrupt Histamine Metabolism Presenter: Lola Piper <i>Mentor: Martin Burg</i>
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 <i>Mentor: Lisa Kenyon</i>
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 <i>Mentor: Matthew Hart</i>
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
4:00 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
4:00 p.m.	KC GRR 093	Rheumatic Heart Disease in Sub-Saharan Africa: What Is It and What Can We Do? Presenter: Esther Bard <i>Mentor: Ruijie Liu</i>

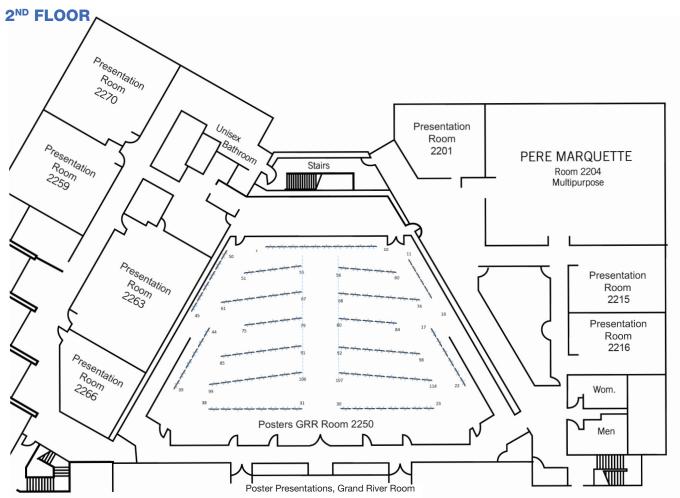
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