

# Graduate Research Symposium

February 26, 2025

Student Center Second Floor

5221 Gullen Mall, Detroit, MI 48201

# Event agenda

<b>8:00 am</b>	<b>Doors open &amp; morning posters setup</b> <i>Ballroom</i>
<b>8:00-9:00 am</b>	<b>Breakfast</b> <i>Hallway</i>
<b>9:00-10:30 am</b>	<b>Morning poster session</b> <i>Ballroom</i>
<b>10:30-10:45 am</b>	<b>Coffee break</b> <i>Hallway</i>
<b>10:45 am-12:15 pm</b>	<b>Morning platform talks</b> <i>Room 285, Hilberry A &amp; B</i>
<b>12:15-1:00 pm</b>	<b>Lunch</b> <i>Hilberry E &amp; F</i>
<b>1:00-2:30 pm</b>	<b>Afternoon platform talks</b> <i>Room 285, Hilberry A &amp; B</i>
<b>1:30 pm</b>	<b>Ballroom opens for afternoon posters setup</b> <i>Ballroom</i>
<b>2:30-2:45 pm</b>	<b>Coffee break</b> <i>Hallway</i>
<b>2:45-4:15 pm</b>	<b>Afternoon poster session</b> <i>Ballroom</i>
<b>4:15-4:30 pm</b>	<b>Coffee break</b> <i>Hilberry</i>
<b>4:30-5:30 pm</b>	<b>Three-Minute Thesis Competition &amp; awards ceremony</b> <i>Room 285</i>

## MORNING POSTER PRESENTATIONS

**1. Abbas, Hadi**

**Abstract title:** “Advancing intelligent fault diagnosis through enhanced mechanisms in transfer learning.”  
*Industrial & systems engineering*

**2. Abdul Rauf, Fathima**

**Abstract title:** “Developing new strategies for the synthesis of diverse porous aromatic frameworks.”  
*Chemistry*

**3. Abongo, Paul**

**Abstract title:** “Enhanced mechanical properties of concrete with GNP-coated aggregates.”  
*Civil & environmental engineering*

**4. Adnan, Muhammad**

**Abstract title:** “Cybersecurity, image-based control, and process design and instrumentation selection.”  
*Chemical engineering & materials science*

**5. Adoteye, Gwendolyn**

**Abstract title:** “Interleukin 17 induced signaling in renal endothelial cells in diabetes.”  
*Physiology*

**6. Akabrov, Anar**

**Abstract title:** “Matching between pre-equilibrium and hydrodynamics.”  
*Physics & astronomy*

**7. Akpo, Margaret Sena**

**Abstract title:** “Investigating the role of cell adhesion molecules in muller glia morphology and tiling.”  
*Anatomy and cell biology*

**8. Albrehi, Feryal**

**Abstract title:** “Decolonizing praxis: travelers' tales and the depiction of Muslim women.”  
*Teacher education*

**9. Aldhaibani, Hesham**

**Abstract title:** “Utilizing acoustic sensors for the assessment of behind armor blunt trauma injury using animal model.”  
*Biomedical engineering*

**10. Alexander-Jordan, Robert**

**Abstract title:** “Trauma-informed policies: Shaping leadership and enhancing student success.”  
*Administration & organizational studies*

**11. Almhierat, Razan**

**Abstract title:** “Transcriptomic responses of *Daphnia pulex* to 17-alpha-Ethinylestradiol Exposure.”  
*Pharmacy*

**12. Amarasinghe, Anjalie**

**Abstract title:** “Investigation of Sin3A and metabolic gene interactions in *Drosophila melanogaster*.”  
*Biological sciences*

**13. Aththota Gamage, Pramoda Sahan Kumari**

**Abstract title:** “Determining molecular mechanisms of mBaojin: Photostability, chloride sensitivity.”  
*Chemistry*

**14. Baiden, Issac**

**Abstract title:** “Sex differences in a preclinical model of Type II cardiorenal syndrome with loop diuretic resistance.”

*Physiology*

**15. Banga, Loveleen**

**Abstract title:** “Uncovering the effects of ciprofloxacin on corneal epithelial cells: A study using ECIS technology.”

*Anatomy & cell biology*

**16. Barker, Grayson**

**Abstract title:** “Increases fibrosis in HER2+ breast tumor patients harboring TGFBR1\*6A.”

*Oncology*

**17. Bhayekar, Komal**

**Abstract title:** “Targeting deubiquitinase activity of USP5 for the treatment of NSCLC..”

*Pharmacy*

**18. Brown, Anthony**

**Abstract title:** “Speaking of children.”

*English*

**19. Chapman, Kelli**

**Abstract title:** “Light-controlled modulation of CYP1A1 expression via Ru(II) complexes for targeted cancer therapy.”

*Chemistry*

**20. Chek, Carmen Jia-Wen**

**Abstract title:** “Loneliness negatively impacts cognitive domain in older adults similarly across racial/ethnic groups.”

*Psychology*

**21. Chilampankunnel Prasannan, Abhishek**

**Abstract title:** “Magneto-crystalline anisotropic superconducting diode effect in planar Josephson junctions.”

*Physics & astronomy*

**22. Chowdhury, Md Tawsif Rahman**

**Abstract title:** “Process and performance optimization of RRAM devices for energy-efficient next generation computing.”

*Electrical & computer engineering*

**23. Cunha, Warley**

**Abstract title:** “CASC15 lncRNA as a mediator of vascular senescence in the renin-angiotensin system.”

*Molecular medicine & genetics*

**24. Datta, Rltoban**

**Abstract title:** “Jet modification near the transition between the quark-gluon and hadronic plasma.”

*Physics & astronomy*

**25. Davis, Kevin Chadwin**

**Abstract title:** “Enhancing mental health access in Detroit through health equity.”

*Family medicine & public health sciences*

- 26. Deck, Alexander**  
**Abstract title:** “IFN - $\gamma$  PET imaging as a tool to assess immunotherapy response in tumor-bearing mice.”  
*Oncology*
- 27. Dehghan Chenijani, Fatemeh**  
**Abstract title:** “Effects of yoga and mindfulness on mental well-being in college students.”  
*Kinesiology, health & sport studies*
- 28. Dennaoui, Rayane**  
**Abstract title:** “Cooperative functions of JAK1 and JAK2 in orchestrating postnatal mammary gland development.”  
*Oncology*
- 29. Dhikhirullahi, Opeyemi**  
**Abstract title:** “Normal embryo development needs MEIG1/PACRG-mediated sperm formation.”  
*Physiology*
- 30. Dorandish, Sadaf**  
**Abstract title:** “Targeting USP10 to enhance chemotherapy and immunotherapy efficacy in NSCLC.”  
*Pharmacy*
- 31. Dwyer, Katherine**  
**Abstract title:** “Splicing-dependent transcriptional regulation: A novel role of the splicing factor Prp19.”  
*Biological sciences*
- 32. Eichstaedt, Jillian**  
**Abstract title:** “dACC glutamate modulation during food-based inhibitory control task predicts BMI at follow-up.”  
*Psychiatry & behavioral neuroscience*
- 33. Elshenawy, Habiba**  
**Abstract title:** “Mitochondrial-nuclear retrograde regulator 1 (MNRR1), A novel regulator of apoptosis in TNBC.”  
*Molecular medicine & genetics*
- 34. Erder, Ece**  
**Abstract title:** “Cortico-cortical evoked potential to understand the tumor-related epilepsy network.”  
*Psychiatry & behavioral neuroscience*
- 35. Estes, Alexis**  
**Abstract title:** “How can Native American adolescents with PTSD heal through group art therapy?”  
*Teacher education*
- 36. Fernandez, Bella**  
**Abstract title:** “Cabeza de Vaca: La lente colonialista que impregna la versión fílmica de Nicolás Echevarría.”  
*Classical modern languages, literature & cultures*
- 37. Fidler, Emma**  
**Abstract title:** “Comprehensive analysis of the role of an intron in transcription and post-transcriptional dynamics.”  
*Biological sciences*
- 38. Furr, Elliot**  
**Abstract title:** “Protein based lanthanide capture from coal fly ash.”  
*Chemistry*

**39. Garbin, Brianna**

**Abstract title:** “Beyond the binary: Kink, queer relationships, and gender non-conformity in the Middle Ages.”  
*English*

**40. Gazal, Abass**

**Abstract title:** “Hydrothermal liquefaction of organic wet waste; a sustainability and circularity assessment.”  
*Civil & environmental engineering*

**41. Ghorbani, Zohreh**

**Abstract title:** “Integrating ChatGPT in college mathematics instruction: Impacts on conceptual learning and critical.”  
*Education*

**42. Glenn, Dillon L.**

**Abstract title:** “Effectiveness of classic and non-classic psychedelics for smoking cessation: A systematic review.”  
*Nursing*

**43. Godfrey, Olivia**

**Abstract title:** “Testing a disposition-belief-motivation framework of post-menopausal health and well-being.”  
*Psychology*

**44. Godugu, Sri Alekhya**

**Abstract title:** “Enhancing perception in adverse weather using hydra-nets architecture for autonomous vehicle driving.”  
*Electrical & computer engineering*

**45. Gonzalez-Prado, Roberto**

**Abstract title:** “Associations with pain, depression, subjective, and objective sleep quality in fibromyalgia.”  
*Psychology*

**46. Hall, Hayden**

**Abstract title:** “Exploring the reflection spectrum of the neutron star low mass X-ray binary serpens X-1.”  
*Physics & astronomy*

**47. Halter, Jessica**

**Abstract title:** “Separation of high order protein conformations using thermal gel electrophoresis.”  
*Chemistry*

**48. Harrison, Paula**

**Abstract title:** “Testing associations between personality traits and dietary behavior: A meta-analysis”  
*Psychology*

**49. Hatala, Iryna**

**Abstract title:** “Measuring ferromagnetic exchange interactions in exchange bias synthetic magnets.”  
*Physics & astronomy*

**50. Herath Manchanayake, Dulmalika**

**Abstract title:** “Beyond diabetes: SGLT2i potential as a novel therapeutic approach for Alzheimer's disease.”  
*Biological sciences*

**51. Hernandez, Aleck**

**Abstract title:** “Simulating the variability of active galactic nuclei on very large timescales.”

*Physics & astronomy*

**52. Hicks, Haley**

**Abstract title:** “Promoting school safety through visibility: An exploration of gender and sexual minority adolescents.”

*Social work*

**53. Hilton, Joshua**

**Abstract title:** “Riding the green bandwagon: An analysis of green social influences on sustainability communication.”

*Economics*

**54. Hoffmann, Alexander**

**Abstract title:** “Passive filler ionic conductivity enhancement of poly(ethylene glycol) diacrylate electrolytes.”

*Chemical engineering & materials science*

**55. Ishak, Md**

**Abstract title:** “Energy-efficient probabilistic Bayesian neural networks for resource-constrained environments.”

*Electrical & computer engineering*

**56. Izang, John**

**Abstract title:** “Discovery of metal-organic framework C-H amination catalysts via high-throughput experimentation”

*Chemistry*

**57. Jahan, Syed**

**Abstract title:** “Elucidating QGP at finite baryon density with (3+1)D Bayesian analysis at the RHIC beam energy scan.”

*Physics & astronomy*

**58. Jahn, Alissa**

**Abstract title:** “Intergenerational group therapy using traditional or heritage art making methods for Flint residents.”

*Theoretical & behavioral foundations*

**59. Jajula, Jyotsna**

**Abstract title:** “Developing RNA delivery technologies for specific tissue targeting using lipid nanoparticles.”

*Pharmacy*

**60. James, Sharnell**

**Abstract title:** “(F)or (U)s (B)y (Us): Creating ways to dismantle the stigma of mental health in the Black community.”

*Social work*

**61. Jayasundara Mudiyansele, Ruwandhi Virajitha**

**Abstract title:** “Magnesium (II) alkoxide complexes as catalysts for carbene transfer reactions.”

*Chemistry*

- 62. Jeffrey, Teresa**  
**Abstract title:** “From low to ultrahigh: Bridging the gigahertz to terahertz gap in antiferromagnetism.”  
*Physics & astronomy*
- 63. Jenuwine, Mackenzie**  
**Abstract title:** “Heart rate variability: Bridging equity in psychological research and practice.”  
*Theoretical & behavioral foundations*
- 64. Karim, Norjan**  
**Abstract title:** “Evaluating material reusability for historic building renovation projects.”  
*Civil & environmental engineering*
- 65. Kazemdehbashi, Sina**  
**Abstract title:** “An algorithm with exact bounds for coverage path planning in UAV-based search and rescue under windy”  
*Industrial & systems engineering*
- 66. Khalid, Sonia**  
**Abstract title:** “Influence of developmental opioid exposure on perineuronal net expression.”  
*Psychiatry & behavioral neuroscience*
- 67. Kiruthiga Gopal, Gokula Kumaran**  
**Abstract title:** “Automated system for medical image segmentation to support diagnoses.”  
*Electrical & computer engineering*
- 68. Kodmany, Reem**  
**Abstract title:** “L’évolution de la comédie française entre Molière et Marivaux : continuités et ruptures  
*Classical modern languages, literature & cultures*
- 69. Kreinbring, Lindsey**  
**Abstract title:** “Novel mechanisms regulating fatty acid elongation.”  
*Biological sciences*
- 70. Kumar, Vikalp**  
**Abstract title:** “Cardiolipin regulates retinoic acid signaling: Implications for Barth syndrome.”  
*Biological sciences*
- 71. Kushwaha, Babita**  
**Abstract title:** “Discovery of small molecule inhibitors targeting PLpro for coronavirus therapy.”  
*Pharmacy*
- 72. Kushwaha, Narva Deshwar**  
**Abstract title:** “Design and development of covalent inhibitors targeting papain-like protease (PLpro) for coronavirus.”  
*Pharmacy*
- 73. Rahman, Arifur**  
**Abstract title:** “AI-powered computational modeling of PNPLA3 mutants in decoding the pathogenesis of MAFLD.”  
*Applied health sciences*
- 74. Saad, Sarah**  
**Abstract title:** “AI-based content generation for the analysis of agent behavior on virtual landscapes.”  
*Computer science*



**75. Zorn, Kylie**

**Abstract title:** “Art therapy as a measurement tool for self-awareness and grounding in dissociative symptoms.”

*Administration & organizational studies*

# MORNING PLATFORM TALKS

## Room 285: CFPCA presentations

**1. Asher, Matthew**

**Abstract title:** “Beethoven’s Op. 27 No. 1: Reimagining the Sonata.”

*Music*

**2. Graves, Brandon**

**Abstract title:** “Rethinking engagement.”

*Theatre and dance*

**3. Murphy, Samuel**

**Abstract title:** “Schubert’s D.956 – ii – Aria Requiem.”

*Music*

**4. Porter, Alexandra**

**Abstract title:** “What to do about the Big Data and AI turn? Emerging feminist approaches in media and communication.”

*Communication*

**5. Sheehan, Laney**

**Abstract title:** “‘A tale of Derring-Do:’ Troubadour song and Renaissance polyphony in Baldur’s Gate 3..”

*Music*

**6. Srour, Layan**

**Abstract title:** “Arab-American musicians in Detroit: Tradition, identity, and the impact of Middle Eastern conflict.”

*Music*

## Hilberry A: Women and family topics

**1. Carney, Christina**

**Abstract title:** “Crafting the perfect mother: Domestic arts as obscured leisure in intensive mothering.”

*Sociology*

**2. Cihak, Megan**

**Abstract title:** “The impact of hormonal birth control on cortisol reactivity to psychosocial stress.”

*Theoretical & behavioral foundations*

**3. Duckett, Jacquelyn**

**Abstract title:** “Parenthood and sleep in a population-based sample of older adults.”

*Psychology*

**4. Fiedler, Stephanie**

**Abstract title:** “Winning the breakup: Romantic detachment and downward social comparisons to ex-partners.”

*Psychology*

**5. Fleming, Owen**

**Abstract title:** “And what about the kids? Divorce, child support, and childhood health investment.”

*Economics*

**6. Gborogen, Rosilyn**

**Abstract title:** “Experience of African American women with mastectomy without breast reconstruction.”  
*Nursing*

**7. Glowacki, Carter**

**Abstract title:** “Combatting maternal and fetal health disparities through paid maternity leave.”  
*Family medicine & public health science*

**8. Harvin, Elizabeth**

**Abstract title:** “Illocutionary violations in clinical communication: Analyzing directives and commissives in childbirth.”  
*Philosophy*

**9. Munshi, Ishita**

**Abstract title:** “From childhood victimization to adolescent dating aggression: The role of caregiver relationship.”  
*Psychology*

## **Hilberry B: Health research**

**1. Abel II, Clifford**

**Abstract title:** “Brain network topology during learning: Explorations in Schizophrenia with graph theory.”  
*Psychiatry & behavioral neuroscience*

**2. Akhlaq, Asra**

**Abstract title:** “Bacterial-derived cues and insulin signaling promote oocyte biology in *C. elegans*.”  
*Biological sciences*

**3. Bannoura, Sahar**

**Abstract title:** “RCC1 regulates subcellular protein localization via Ran GTPase to drive pancreatic cancer.”  
*Oncology*

**4. Bauer, Abbie**

**Abstract title:** “Applying the addictions neuroclinical assessment framework to opioid use disorder (OUD).”  
*Psychiatry & behavioral neuroscience*

**5. Peterson, Austin**

**Abstract title:** “Targeting mitochondrial one-carbon metabolism in drug-resistant T-cell acute lymphoblastic Leukemia.”  
*Oncology*

**6. Pungi, Divine**

**Abstract title:** “Targeting ER-stress pathway in microglia mitigates benzene-induced metabolic dysregulation and neuro.”  
*Pharmacy*

**7. Ukasik, Dylan**

**Abstract title:** “Epileptogenic tubers secrete exosomes enriched with proteins related to altered electrophysiology.”  
*Psychiatry & behavioral neuroscience*

# AFTERNOON PLATFORM TALKS

## Room 285: Urban and community topics

### 1. Atilola, Mesach

**Abstract title:** “Exploring the inter-relationship between housing, pavement conditions and social equity in Detroit.”

*Civil & environmental engineering*

### 2. Fuad, Nafis

**Abstract title:** “Evolving public perception of bikeshare systems: A longitudinal analysis of Chicago.”

*Civil & environmental engineering*

### 3. Maas, Kelsye

**Abstract title:** “Planning for equity in Michigan.”

*Urban studies & planning*

### 4. Nayeem, Md

**Abstract title:** “Disproportionate reduction in health benefits of cycling for children from disadvantaged communities.”

*Civil & environmental engineering*

### 5. Pamfilie, Ligia

**Abstract title:** “Supporting underrepresented students using COIL to build meaningful learning experiences.”

*Administration & organizational studies*

### 6. Sorrell, Damiana

**Abstract title:** “Pathways to equity: Addressing educational injustices and simplifying school choice for Black parents.”

*Teacher education*

## Hilberry A: Biomedical and environmental topics

### 1. Awad, Dima

**Abstract title:** “Behavioral and genomic responses to BTEX in *Daphnia pulex*.”

*Pharmacy*

### 2. Hasse, Timothy

**Abstract title:** “Molecules in motion: Advancing drug discovery through computational biophysics.”

*Physics & astronomy*

### 3. Laymon, Jenna

**Abstract title:** “Exploring virtual reality-based and psychophysiological assessments of threat, fear, and.”

*Psychiatry & behavioral neuroscience*

### 4. Lee, Julian

**Abstract title:** “A novel robot system for upper limb stroke rehabilitation using the da Vinci Surgical System.”

*Biomedical engineering*

### 5. Mahmudunnobe, Md

**Abstract title:** “Cosmic evolution of mass, luminosity, and accretion rate of unobscured supermassive black holes.”

**6. Roberts, Christopher**

**Abstract title:** “Cerebrospinal fluid flow distribution in shunted pediatric hydrocephalic ventricles.”  
*Chemical engineering & materials science*

**7. Scofield, Sydney**

**Abstract title:** “Environmental pollutant mixture exposure in aging: Impact on central and peripheral immune function.”  
*Biological sciences*

## **Hilberry B: Business and workplace research**

**1. Bani Hani, Mohammad**

**Abstract title:** “Volatility spillover across global crude oil benchmarks: Financialization & fracking revolution.”  
*Economics*

**2. Charkhchi, Iman**

**Abstract title:** “How do firms control the news media narrative when they have high litigation risk?”  
*Finance*

**3. Criss, David**

**Abstract title:** “The impact of companies’ sustainability (ESG) performance on the cost of capital.”  
*Economics*

**4. Kasturi Rangan, Keshav**

**Abstract title:** “Profit considerations of a control-integrated cyberattack detection strategy.”  
*Chemical engineering & materials science*

**5. Kazemian, Iman**

**Abstract title:** “Attention is all you need to optimize wind farm operations and maintenance.”  
*Industrial & systems engineering*

**6. Shaheen, Ryna**

**Abstract title:** “Beyond the scrubs: Unmasking the mental health crisis among healthcare heroes.”  
*Family medicine & public health sciences*

**7. Sharda, Sukriti**

**Abstract title:** “Navigating culture and gender in workplace negotiations: A cross-cultural view of personal value.”  
*Business*

## AFTERNOON POSTER PRESENTATIONS

**1. Lanzkron-Tamarazo, Doris**

**Abstract title:** “Matrons and moonshine: Alternate paths of empowerment in Prohibition-era Michigan.”  
*History*

**2. Leavings, Chloe**

**Abstract title:** “Let me rap to you real quick.”  
*English*

**3. Lee, Biyyiah**

**Abstract title:** “Unveiling layers of cannabis use disparities in urban minority communities: A systematic review.”  
*Nursing*

**4. Li, Shuxiao**

**Abstract title:** “New materials for the thermally controlled delivery of inhalable nitric oxide.”  
*Chemistry*

**5. Li, Songwei**

**Abstract title:** “NuSTAR stray light observations with LMXBs.”  
*Physics & astronomy*

**6. Lotvola, Aaron**

**Abstract title:** “c-Myc is downregulated by ABHD5 in prostate cancer cells.”  
*Oncology*

**7. Matthews, Schaterika**

**Abstract title:** “Is silence or resilient stress your master?”  
*Business*

**8. McCarrroll, Dana**

**Abstract title:** “How does hip hop culture play a role in influencing urban inner city students educational journey?”  
*Teacher Education*

**9. McGaughy, Samantha**

**Abstract title:** “Amplifying voices: Black women's music in the Civil Rights era.”  
*Music*

**10. McGinnis, Natalie**

**Abstract title:** “Sneathia: An emerging pathogen in the female reproductive tract.”  
*Biochemistry, microbiology & immunology*

**11. Michalski, Matthew**

**Abstract title:** “Subsistence and mobility through protein analysis of stone tools at the Belson Clovis site.”  
*Anthropology*

**12. Miller, Samantha**

**Abstract title:** “Perceptions of a health promotion program for autistic children and their primary caregiver.”  
*Kinesiology, health & sport studies*

**13. Moazzeni, Alireza**

**Abstract title:** “Optimizing sputtering parameters for tantalum oxide-based resistive memory: A design of experiments.”

*Electrical & computer engineering*

**14. Morey, Marissa**

**Abstract title:** “The empowerment paradox: Identifying feminism in conservative spaces.”

*Sociology*

**15. Mugunamalwaththa, Thamarahansi**

**Abstract title:** “Biochemical basis of SMYD5 in HIV Latency and transcriptional reactivation.”

*Biochemistry, microbiology & immunology*

**16. Najem, Noorelhoda**

**Abstract title:** “Improving air quality in Southwest Detroit.”

*Family medicine & public health sciences*

**17. Nguyen, Huong**

**Abstract title:** “Caring for elderly people: A challenge in balancing personal life during and after Covid-19 pandemic.”

*Economics*

**18. Nwanelo, Valentine**

**Abstract title:** “Validating histone deacetylase 7 as a reader of progesterone receptor acetylation.”

*Chemistry*

**19. Oberle, Kjersti**

**Abstract title:** “Advancing the understanding of porous organic polymer synthesis through studies of defect structures.”

*Chemistry*

**20. O’Brien, Katherine**

**Abstract title:** “Political values: The influence of remittances on democracy and autocracy in Latin American countries.”

*Political science*

**21. Odewale, Elizabeth**

**Abstract title:** “Investigating the influence of excitonic and photonic components on cavity polariton relaxation rate.”

*Chemistry*

**22. Oduro, Samuel**

**Abstract title:** “Comprehensive framework and technological support for the effective abatement of renovation projects.”

*Civil & environmental engineering*

**23. Oguh, Blessed**

**Abstract title:** “A simple two-camera 3D imaging system.”

*Chemistry*

**24. Oladipo, Pelumi**

**Abstract title:** “Functional differences provide insights into the pathogenic potential of *Escherichia marmotae*.”

*Biochemistry, microbiology & immunology*

- 25. Olvera, Cecilia**  
**Abstract title:** “Pay as you stay: Analyzing housing stability and community benefits in Wayne and Genesee counties.”  
*Political science*
- 26. Osama, Muhammad**  
**Abstract title:** “Mass transfer during drop impact on a layer of the same liquid.”  
*Mechanical engineering*
- 27. Ostrom, Kate**  
**Abstract title:** “Signs of crossing: Tracing borderscapes through the US-Mexico middle place.”  
*Classical modern languages, literature & cultures*
- 28. Owe, Brenda**  
**Abstract title:** “Development and validation of the Visuo-perceptual Visuospatial Learning and Memory Test.”  
*Psychology*
- 29. Oyewumi, Tolulope**  
**Abstract title:** “Study of human multispecificity kinases NME1 and NME2 using kinase-catalyzed biotinylation.”  
*Chemistry*
- 30. Parveen, Shahnaz**  
**Abstract title:** “Membrane biophysics of lipid droplets: investigating ABHD5 behavior and its impact on metabolic regu.”  
*Physics & astronomy*
- 31. Pavelich, Lauren**  
**Abstract title:** “High sucrose diet induces tyrosine phosphorylation of cytochrome c oxidase in diabetic rat hearts.”  
*Biochemistry & molecular biology*
- 32. Pereira, Bianca**  
**Abstract title:** “Electrical synaptic proteins regulate a stress-induced developmental program and longevity.”  
*Biological sciences*
- 33. Perrin, Laurie**  
**Abstract title:** “Reclamando el Pasado: La Herencia Duradera y la Relevancia Contemporánea del Popol Vuh.”  
*Classical modern languages, literature & cultures*
- 34. Pham, Lucynda**  
**Abstract title:** “Inhibitory infrared light stimulates mitophagy and quality control, improving bioenergetics.”  
*Molecular medicine & genetics*
- 35. Pica, Ericka**  
**Abstract title:** “Seeing and unseeing: A case study on the shifting ethos of archaeological knowledge Production.”  
*Anthropology*
- 36. Pinela, Alexis**  
**Abstract title:** “Loneliness moderates the association between negative social interactions and diurnal cortisol slope.”  
*Psychology*



- 37. Pounders, Sarah**  
**Abstract title:** “Mapping Alfred Street: A microcosm of Detroit’s socio-economic change through time.”  
*Anthropology*
- 38. Praneeth, Sai**  
**Abstract title:** “Recovery of Gadolinium(III) from magnetic resonance imaging patient urine using adsorption.”  
*Civil & environmental engineering*
- 39. Premtaj, Cole**  
**Abstract title:** “CdS nanocube aerogels for water splitting: The impact of connectivity on gel frameworks”  
*Chemistry*
- 40. Prifti, Matthew**  
**Abstract title:** “Insights into Dentatorubral-Pallidoluysian atrophy from a new Drosophila model of disease.”  
*Pharmacology*
- 41. Qadir, Nida**  
**Abstract title:** “Causal impact of public health Insurance on child health outcomes in Pakistan.”  
*Economics*
- 42. Ramos, Rafael**  
**Abstract title:** “Culturing hepatocytes in GAG-based capsules: Intracapsular ECM effects on organization and function”  
*Biomedical engineering*
- 43. Rana, Rima**  
**Abstract title:** “Defining the molecular mechanisms of DSCAM-mediated self-avoidance.”  
*Pharmacology*
- 44. Reardon, Madeleine**  
**Abstract title:** “Integrating families and communities into the clubhouse model: Insights from the Bungoma Project.”  
*Theoretical & behavioral foundations*
- 45. Reward, Eleazar**  
**Abstract title:** “Understanding the differential substrate recognition by the HSV-1 E3 ubiquitin ligase, ICPO.”  
*Biological sciences*
- 46. Roy, Preetom**  
**Abstract title:** “Rare-earth element and vanadium recovery from unconventional feedstocks including coal fly ash.”  
*Civil & environmental engineering*
- 47. Sakr, Ahmed**  
**Abstract title:** “Potential for eco-friendly recovery of rare Earth elements from fly ash using carboxylic acids.”  
*Civil & environmental engineering*
- 48. Samarbakhsh, Amirreza**  
**Abstract title:** “Design and development of broad-spectrum antiviral therapeutics by targeting coronavirus PL protease.”

*Pharmacy*

**49. Sarker, Aditi**

**Abstract title:** “Multimodal learning with cross-attention and heterogeneity-aware aggregation.”  
*Computer science*

**50. Sethuram, Ashwin Raam**

**Abstract title:** “Harmonizing traditional, machine learning, and foundational models for domain-specific time series.”  
*Industrial & systems engineering*

**51. Sharma, Anamika**

**Abstract title:** “IL-33-induced microglia activation modulates retinal neovascularization dynamics.”  
*Anatomy & cell biology*

**52. Sinchaothong, Thanet**

**Abstract title:** “The relationship between older adults’ socioeconomic status (SES) and telehealth use.”  
*Nursing*

**53. Slane, Elizabeth**

**Abstract title:** “Mechanisms of flame retardant-induced neural cell death.”  
*Pharmacy*

**54. Stidham, Jennifer**

**Abstract title:** “Augmenting brief alcohol intervention effects with a novel, video exercise.”  
*Psychology*

**55. Subasinghe, Janya**

**Abstract title:** “Decoding fluorescence retention in DsRed: Insights from molecular dynamics and machine learning.”  
*Chemistry*

**56. Subedi, Mitra Mani**

**Abstract title:** “Magnon-magnon interactions in synthetic antiferromagnets.”  
*Physics & astronomy*

**57. Temby, Brianna**

**Abstract title:** “Targeted degradation of androgen receptor (AR) and AR variants using AUTOPhagy-TArgeting Chimera.”  
*Oncology*

**58. Thibodeau, Jenna**

**Abstract title:** “Loss of cystathionine- $\beta$ -synthase activity contributes to cytarabine resistance in ML-DS.”  
*Oncology*

**59. Tiamiyu, Rachael**

**Abstract title:** “Understanding the interplay between the two catalytic domains of histone deacetylase 6 (HDAC6).”  
*Chemistry*

**60. Tohidi, Nasim**

**Abstract title:** “A bilevel optimization approach for recommendation systems using sentiment analysis.”  
*Computer science*

**61. Truong, Vivian**

- Abstract title:** "SUPREME: Susceptibility with ultra-high-resolution parallel reconstruction of multi-echo."  
*Radiology*
- 62. Vallejo, Zully**  
**Abstract title:** "It is not just about one: 'No vaya a salir con su domingo siete.'"  
*Teacher education*
- 63. Vann, Darius**  
**Abstract title:** "Race and education moderate the relationship of cognitive reserve and current function."  
*Psychology*
- 64. Vollmer, April**  
**Abstract title:** "Gender-typing across adolescence: Evidence of stability and shifts."  
*Psychology*
- 65. Warmbrunn, Isabella**  
**Abstract title:** "Innovative opioid education for adolescents in the United States."  
*Family medicine & public health sciences*
- 66. Weaver, Destiny**  
**Abstract title:** "Unique contributions of learning ratio versus slope and total learning in dementia classifications."  
*Psychology*
- 67. Williams, Gwendolyn**  
**Abstract title:** "Central nervous system tissue dynamics in Type I chiari malformation."  
*Chemical engineering & materials science*
- 68. Wykes, Madison**  
**Abstract title:** "Molecular determinants that promote cellular plasticity and Claudin-low mammary tumorigenesis."  
*Oncology*
- 69. Yadav, Himanshu**  
**Abstract title:** "Visible-light-driven photocatalytic water splitting using ZnSe aerogel."  
*Chemistry*
- 70. Yonis, Nouran**  
**Abstract title:** "Tracing the fate of the C1'-DNA sugar radical in the skin."  
*Pharmacy*
- 71. Yu, Lu**  
**Abstract title:** "The impact of personalized social media advertising on consumer perceptions and behavior."  
*Marketing*
- 72. Yzeiri, Erik**  
**Abstract title:** "Wayne County's SDOH Transportation Pilot Program."  
*Family medicine & public health sciences*
- 73. Zamiri, Alaleh**  
**Abstract title:** "ABHD5 activation initiates ferroptotic cell death and autophagy in therapy-resistant HNSCC."  
*Pathology*

**74. Zhang, Chencheng**

**Abstract title:** “Reimagining ancient civilizations: Landbridge and the future of VR and AI.”

*Computer science*

**75. Zieleniewski, Alessandra**

**Abstract title:** “Engineering a dCas9: SIN3 fusion for controlling gene expression.”

*Biological sciences*

**76. Adamusik, Joanna**

**Abstract title:** “Contributing factors to youth violence: Comparison of perceptions of students with disabilities.”

*Social work*

## THREE-MINUTE THESIS COMPETITION

- 1. Adegoke, Ayodeji**  
**Presentation title:** “Longitudinal trajectories of internalizing problems: Peer victimization and childhood trauma.”  
*Psychology*
- 2. Amarasinghe, Anjalie**  
**Presentation title:** “Investigation of Sin3A and metabolic gene interactions in *Drosophila melanogaster*.”  
*Biological sciences*
- 3. Baiden, Isaac**  
**Presentation title:** “Sex differences in a preclinical model of Type II cardiorenal syndrome with loop diuretic resistance.”  
*Physiology*
- 4. Johnson, Jeanine**  
**Presentation title:** “Disrupting the school-to-prison pipeline with school-based mental health care.”  
*Psychology*
- 5. Rahman, Arifur**  
**Presentation title:** “Hey!...How’s your liver?”  
*Pharmaceutical sciences*
- 6. Saad, Sarah**  
**Presentation title:** “AI-based content generation for the analysis of agent behavior on the Alpen-  
Amberley land bridge.”  
*Computer science*