Graduate and Postdoctoral Research Symposium

March 6, 2018

Event Agenda

8:00-8:45 am  Session 1 Presenters Set up Posters
               McGregor

8:45-8:50 am  Welcome and Opening Remarks
               Dr. Ambika Mathur, Associate Provost and Dean of the Graduate School
               Dr. Keith Whitfield, Provost and Senior Vice President for Academic Affairs
               Community Arts Auditorium

8:50-9:00 am  Orientation for Judges and Presenters
               Dr. Annmarie Cano, Associate Dean of the Graduate School
               Community Arts Auditorium

9:00-10:30 am Judging for Posters
               McGregor

10:45-11:00 pm Session 2 Presenters Set up Posters
               McGregor

11:00-11:45 pm Lunch for Judges, Session 1 Presenters and Session 2 Presenters
               McGregor

12:00-1:30 pm Judging for Posters
               McGregor

1:45-2:30 pm  3MT Presentations and Judging
               Community Arts Auditorium

2:45-3:45 pm  Panel Discussion
               Community Arts Auditorium

3:45-4:30 pm  Awards Ceremony
               Community Arts Auditorium
Morning Session

1. **Ahmad, Madison (Master’s Student)**
   Department of Immunology and Microbiology, Medicine
   **Abstract Title:** “Subcaudal Scent Gland Microbiota of the European Badger: Sources of Variation And Relation to Microbiota Inhabiting Different Body Sites.”
   Advisor: Kevin Theis

2. **Aliabadi, Majid (Doctoral Student)**
   Department of Chemical Engineering, Engineering
   **Abstract Title:** “Decision Making Via Hierarchical Control For Sustainable Process Design and Manufacturing.”
   Advisor: Yinlun Huang

3. **Alshahrani, Suhail Salem (Doctoral Student)**
   Department of Biomedical Engineering, Engineering
   **Abstract Title:** “An Advanced Photoacoustic Tomography System Based on a Ring Geometry Design.”
   Advisor: Mohammad Mehrmohammadi

4. **Anderson, Ashley (Doctoral Student)**
   Department of Biochemistry, Microbiology, and Immunology, School of Medicine
   **Abstract Title:** “Structure-function analysis of HCMV pUL103, a Multifunctional, Herpesviridae-Conserved Tegument Protein.”
   Advisor: Philip Pellett

5. **Arora, Karan (Doctoral Student)**
   Department of Chemistry, College of Liberal Arts and Sciences
   **Abstract Title:** “Ruthenium Complexes as Potent Cathepsin B Inhibitors.”
   Advisor: J. J. Kodanko

6. **Ashgar, Rnda (Doctoral Student)**
   Department of Nursing, Nursing
   **Abstract Title:** “Middle Aged Women and Vulnerability for Cardiovascular DISI a Systematic Review for Psychological factors.”
   Advisor: Debra Schutte

7. **Babaieasl, Faezeh (Doctoral Student)**
   Department of Nursing, Nursing
   **Abstract Title:** “Predictors of Delay in Seeking Health Care for Acute Myocardial Infarction Symptoms in Middle Eastern Patients: A Systematic Review.”
   Advisor: Hossein Yarandi
8. **Bagla, Shruti (Post-Doctoral Student)**
   Department of Pediatrics, Medicine
   **Abstract Title:** “A Deep Intronic Mutation rs8177964 in PKLR Gene Causing Rapid mRNA Degradation, as a Novel Cause of Severe Pyruvate Kinase Deficiency and Hemolytic Anemia.”
   Advisor: Y. Ravindranath

9. **Baier, Stefanie (Post-Doctoral Student)**
   Department of Student Success, Office of the Provost
   **Abstract Title:** “Perceived Support Needs of Freshman Students.”
   Advisor: Shlomo Sawilowsky

10. **Bailey, Matthew (Doctoral Student)**
    Department of Chemistry, Liberal Arts and Sciences
    **Abstract Title:** “Effect of Linker Rigidity on Efficiency of Dimetallic Eu(II)-Cryptates for T1-Weighted contrast-Enhanced Magnetic Resonance Imaging.”
    Advisor: Matthew J. Allen

11. **Balaneshinkordan, Saeid (Doctoral Student)**
    Department of Computer Science, College of Engineering
    **Abstract Title:** “Deep Neural Architecture for Multi-Modal Retrieval Based on Joint Embedding Space for Text and Images.”
    Advisor: Alexander Kotov

12. **Banerjee, Somak (Doctoral Student)**
    Department of Business, Business
    **Abstract Title:** “The Effect of Drip Pricing on Consumers Fairness Perceptions.”
    Advisor: Abhijit Biswas

13. **Basal, Lina (Doctoral Student)**
    Department of Chemistry, College of Liberal Arts and Sciences
    **Abstract Title:** “Eu(II)-Containing Complexes with Applications in Redox Sensing.”
    Advisor: Matthew J. Allen

14. **Basij, Maryam (Doctoral Student)**
    Department of Bioengineering, College of Engineering
    **Abstract Title:** “Ultrasound, Elasticity, and Photoacoustic Imaging of Cervix: Towards More Accurate Prediction of Preterm Delivery.”
    Advisor: Mohammad Mehrmohammadi
15. **Block, C James (Doctoral Student)**  
Department of Cancer Biology, School of Medicine  
**Abstract Title:** “RBMS3 Regulates the Epithelial-To-Mesenchymal Transition via Translational Modulation of Multiple Genes.”  
Advisor: Guojun Wu

16. **Breen, John (Doctoral Student)**  
Department of Economics, College of Liberal Arts and Sciences  
**Abstract Title:** “Crude Oil Price and Volatility: Are They Good Predictors for the Exchange Rate?”  
Advisor: Li Lee

17. **Bui, Trang (Doctoral Student)**  
Department of Mathematics, Liberal Arts and Sciences  
**Abstract Title:** “Hybrid Competitive Lotka-Volterra Ecosystems: Countable Switching States and Two-time-scale Models.”  
Advisor: George Yin

18. **Cassady, Caitlin (Doctoral Student)**  
Department of School of Social Work and Department of Anthropology, School of Social Work  
**Abstract Title:** “Toward an Understanding of Local Arab American Views on Aging and Culture”  
Advisor: Faith Hopp

19. **Chandra, Rashmi (Doctoral Student)**  
Department of Biological Sciences, Liberal Arts and Sciences  
**Abstract Title:** “Stress: A Story of Insulin Peptides, Message Mobilization and Survival.”  
Advisor: Joy Alcedo

20. **Chen, Shixing (Doctoral Student)**  
Department of Computer Science, College of Engineering  
**Abstract Title:** “Driver Age Estimation through Deep Learning for Autonomous Safety.”  
Advisor: Ming Dong

21. **Chen, Yu (Doctoral Student)**  
Department of Computer Science, Engineering  
**Abstract Title:** “Probabilistic Per-Packet Realtime Guarantees for Wireless Networked Sensing and Control.”  
Advisor: Hongwei Zhang
22. Chy, Naim (Doctoral Student)  
   Department of Economics, College of Liberal Arts and Sciences  
   **Abstract Title:** “ACA Medicaid Expansion and Medical Care Intensity: A Case of Two Neighboring States.”  
   Advisor: Allen Goodman

23. Clark, Shannon (Doctoral Student)  
   Department of Psychology, College of Liberal Arts and Sciences  
   **Abstract Title:** “Acceptability and Feasibility of a Multicomponent Group Intervention for Health Behavior Change: The Kickstart Health Program.”  
   Advisor: Annmarie Cano

24. Cook, Christine (Doctoral Student)  
   Department of History, Graduate School  
   **Abstract Title:** “Separate but Unequal: How Gender Expectations Limited the Women's Army Corps (WAC).”  
   Advisor: Liette Gidlow

25. Crespo, Laura (Doctoral Student)  
   Department of Psychology, College of Liberal Arts and Sciences  
   **Abstract Title:** “Contextual Risk, Alternate Caregiver Parenting, and Young Children’s Self-Regulation Skills.”  
   Advisor: Chris Trentacosta

26. Doza, Adit (Doctoral Student)  
   Department of Economics, College of Liberal Arts and Sciences  
   **Abstract Title:** “Racial/Ethnic Differences in Mortality in the US: Have they Narrowed in Recent Years?”  
   Advisor: Gail Jensen Summers

27. Dubaisi, Sarah (Doctoral Student)  
   Department of Pharmacology, Medicine  
   **Abstract Title:** “Expression and Regulation of SULT1C4 in Human Cells and Tissues.”  
   Advisor: Melissa Runge-Morris

28. Dula, Adrion (Doctoral Student)  
   Department of Languages, Liberal Arts and Sciences  
   **Abstract Title:** “Someday my Beast will Come: Death, Desire, and Deformity in Early Modern to Postmodern French Fairy Tales.”  
   Advisor: Anne E. Duggan
29. Edirisuriya, Paba (Doctoral Student)
Department of Nutrition and Food Science, College of Liberal Arts and Sciences
Abstract Title: “Invitro Evaluation of Eubacterium Halli for a Potential Probiotic Development.”
Advisor: Kequan Zhou

30. Ekanayake, Danushka (Doctoral Student)
Department of Chemistry, College of Liberal Arts and Sciences
Abstract Title: “Pentadentate Nitrogen-Rich Copper Electrocatalyst for Water Reduction With Ph Dependent Molecular Mechanisms.”
Advisor: Claudio Verani

31. El Harakeh, Nour (Doctoral Student)
Department of Chemistry, Graduate School
Advisor: Claudio Verani

32. Elmabruk, Asma (Doctoral Student)
Department of Pharmaceutical Sciences, Graduate School
Abstract Title: “Carbazole Based Neuroprotective Multifunctional Dopamine Agonists as Potential Disease Modifying Treatment Agents for Parkinson’s Disease.”
Advisor: Aloke Dutta

33. Girsch, Emily (Doctoral Student)
Department of Oncology, School of Medicine
Abstract Title: “TARDBP regulates SRSF2 in Triple Negative Breast Cancer to Promote a Cancer Stem-like Cell Phenotype.”
Advisor: Aliccia Bollig-Fischer

34. Gladyck, Stephanie (Doctoral Student)
Department of Center for Molecular Medicine and Genetics, School of Medicine
Abstract Title: “The Interaction of MNRR1 and CHCHD10 with Cytochrome c Oxidase.”
Advisor: Lawrence Grossman

35. Gohari, Hajar (Doctoral Student)
Department of Computer Science, Engineering
Abstract Title: “Generating Synthetic CTS from Magnetic Resonance Images Using Generative Adversarial Networks.”
Advisor: Ming Dong
36. Harrison, Amber (Master's Student)
Department of History, College of Liberal Arts and Sciences
Abstract Title: “Juneteenth: America’s Forgotten Independence Day.”
Advisor: Tracy Neumann

37. He, Runsheng (Post-Doctoral Student)
Department of Oncology, Medicine
Abstract Title: “OCT4 Supports Extended LIF- Independent Self Renewal and Maintenance of Transcriptional and Epigenetic Network in Embryonic Stem Cells.”
Advisor: Benjamin Kidder

38. Hellmer, Chase (Doctoral Student)
Department of Anatomy and Cell Biology, School of Medicine
Abstract Title: “Group I Metabotropic Glutamate Receptors Control Synaptic Gain Between Rods and Rod Bipolar Cells in the Mouse Retina.”
Advisor: Tomomi Ichinose

39. Helmers, Breanne (Doctoral Student)
Department of Psychology, College of Liberal Arts and Sciences
Abstract Title: “Distinguishing Profiles of Women’s Refusal Strategies to Unwanted Sexual Advances.”
Advisor: Antonia Abbey

40. Holmes, Hannah (Doctoral Student)
Department of Psychology, College of Liberal Arts and Sciences
Abstract Title: “Preliminary Analyses of the Arab American Women’s Health Study.”
Advisor: Mark Lumley

41. Imami, Ledina (Master’s Student)
Department of Psychology, Liberal Arts and Sciences
Abstract Title: “Self-disclosure, Perceived Responsiveness and Anti Inflammatory Gene Expression in Late Childhood and Adolescence.”
Advisor: Richard B. Slatcher

42. John, Samuel (Master’s Student)
Department of Biomedical engineering, College of Engineering
Abstract Title: “Ultrasound and Photoacoustic Imaging for Image-Guided Endovenous Laser Ablation.”
Advisor: Mohammad Mehrmohammadi
43. **Kuhn, Eric (Master’s Student)**
    Department of Physiology, School of Medicine
    **Abstract Title:** “Nanothermometry Measure of Muscle Efficiency.”
    Advisor: Bhanu Jena

44. **Lee, Jeoung Min (Post-Doctoral Student)**
    Department of Social Work, School of Social Work
    **Abstract Title:** “From Bullying Victimization to Delinquency in South Korean Adolescents: Exploring the Pathways Using a Nationally Representative Sample.”
    Advisor: Jun Sung Hong

45. **Lewis, Brianne (Doctoral Student)**
    Department of Pharmaceutical Science, Pharmacy and Health Sciences
    **Abstract Title:** “The Dynamic Nature of Isu1 during FeS Cluster Biosynthesis.”
    Advisor: Timothy Stemmler

46. **Malis, Michael (Master’s Student)**
    Department of Music, Fine, Performing, Communication Arts
    **Abstract Title:** “Generative Process in Composition.”
    Advisor: Jon Anderson

47. **Manwar, Rayyan (Post-Doctoral Student)**
    Department of Biomedical Engineering, Engineering
    **Abstract Title:** “Feasibility of Transfontannelle Photoacoustic Imaging: Towards Neonatal Functional Brain Imaging.”
    Advisor: Mohammad Nasiriavanaki

48. **Marwah, Praneet (Doctoral Student)**
    Department of Biological Science, College of Liberal Arts and Sciences
    **Abstract Title:** “The Role of a Novel Compound, Hypochlorite-Oxidized Cysteinyl-Dopamine, in the Pathogenesis of Parkinson’s Disease.”
    Advisor: David Njus

49. **Masoodi, Ameen (Master’s Student)**
    Department of Department of Family Medicine and Public Health Sciences, School of Medicine
    **Abstract Title:** “The Importance of Grocery Store Based Interventions in Decreasing Chronic Disease Prevalence in the City of Detroit.”
    Advisor: Alex B. Hill
50. Nicholas, Ian (Master's Student)
Department of Music, Graduate School
Abstract Title: “The Direct Effects of Lullabies on Parent/Infant Biorhythms.”
Advisor: Wendy Matthews

51. Pennar, Amy (Post-Doctoral Student)
Department of Family Medicine and Public Health Sciences, School of Medicine
Abstract Title: “Promoting Resilience through Neurocognitive Functioning in Youth Living with HIV.”
Advisor: Karen MacDonell

52. Quinn, Ashley (Master’s Student)
Department of Social Work, School of Social Work
Abstract Title: “Exploring Cultural Competency: Michigan Foster Parents' Perceptions of Fostering Cross-Racially.”
Advisor: Megan Piel

53. Rodriguez Valenzuela, Tannia (Master’s Student)
Department of Biomedical Engineering, College of Engineering
Abstract Title: “Effects of Increased Accessibility to Ocular Health Care and Education in a Predominantly Latino/Hispanic Population.”
Advisor: Anju Goyal

54. Roostaei, Javad (Master’s Student)
Department of Computer Science, College of Engineering
Abstract Title: “Smart Wastewater Treatment: the Internet of Things (IoT) and Edge Computing Applications in Environmental Engineering.”
Advisor: Weisong Shi

55. Rosati, Rayna (Post-Doctoral Student)
Department of Oncology, School of Medicine
Abstract Title: “Tumor Selective Disruption of Androgen Receptor Function in Prostate Cancer.”
Advisor: Manohar Ratnam

56. Sau, Samaresh (Post-Doctoral Student)
Department of Pharmaceutical Science, Pharmacy and Health Sciences
Advisor: Arun K. Iyer
57. Sharma, Marcella (Master’s Student)  
Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences  
Abstract Title: “The Development of a High-Throughput Assay for 5-Carboxyaminomidazole Ribonucleotide Mutase.”  
Advisor: Steven M. Firestine

58. Smith, Jason (Master’s Student)  
Department of Sociology, College of Liberal Arts and Sciences  
Abstract Title: “Black, Blue, and Blow: The Effect of Race and Criminal History on Perceptions of Police Violence.”  
Advisor: David M. Merolla

59. Sober, Jonathan (Doctoral Student)  
Department of Psychology, Liberal Arts and Sciences  
Abstract Title: “Trained and Derived Relational Responding.”  
Advisor: John Woodard

60. Sosin, Julia (Master’s Student)  
Department of Biological Sciences, College of Liberal Arts and Sciences  
Abstract Title: “The Influence of Site Vs. Time on Groundcover Composition of Jack Pine Forests in Northern Lower Michigan.”  
Advisor: Daniel Kashian

61. St. George, Megan (Master’s Student)  
Department of Sociology, Graduate School  
Abstract Title: “Engineering Inequality: Factors that Attract and Repel Women Towards or Away from Engineering Disciplines.”  
Advisor: David Merolla

62. Winters, Andrew (Post-Doctoral Student)  
Department of Microbiology, Immunology, Medicine  
Abstract Title: “Are there Microbiota in the Human Placenta at Term? Results of Cultivation, Quantitative Real Time PCR, 16S rRNA Gene Sequencing, and Metagenomics.”  
Advisor: Kevin Theis
Afternoon session

1. **French, Kate (Post-Doctoral Student)**  
   Department of Administrative & Organizational Studies, College of Education  
   **Abstract Title:** “Belief Change & Influence: A Case Study of Novice Urban Educators.”  
   Advisor: William Hill

2. **Gasparski, Alexander (Doctoral Student)**  
   Department of Biological Sciences, College of Liberal Arts and Sciences  
   **Abstract Title:** “Transient Mechanical Strain Affects PAK1 Signaling to Promote the Maturation of Invadopodia.”  
   Advisor: Karen A. Beningo

3. **Grasser, Lana (Doctoral Student)**  
   Department of Psychiatry and Behavioral Neurosciene, School of Medicine  
   **Abstract Title:** “Alternative Therapies for Stress and Trauma in Syrian and Iraqi Refugees: Methods, Mechanisms, and New Directions.”  
   Advisor: Arash Javanbakht

4. **H. A. Kankanamalage, Pavithra (Doctoral Student)**  
   Department of Chemistry, College of Liberal Arts and Sciences  
   **Abstract Title:** “Development of a Nickel-based Polypyridine Catalyst Towards Electro/Photocatalytic Dihydrogen Generation from Water.”  
   Advisor: Claudio Verani

5. **Jang, Imjoo (Doctoral Student)**  
   Department of Biological Sciences, College of Liberal Arts and Sciences  
   **Abstract Title:** “Regulation of Traction Force Mediated by the Calpain Small Subunit and Galectin-3.”  
   Advisor: Karen A. Beningo

6. **Jannat, Noor (Doctoral Student)**  
   Department of Industrial and Systems, Engineering  
   **Abstract Title:** “Framework for Accurate Prediction of Nugget Width with Multi-Class Imbalanced Resistance Spot Welding (RSW) Dataset.”  
   Advisor: Kyoung-Yun Kim

7. **Jin, Hai (Doctoral Student)**  
   Department of Computer Science, Engineering  
   **Abstract Title:** “Emotion Information Visualization Through Learning of 3D Morphable Face Model.”  
   Advisor: Jing Hua
8. **Jindal, Ishan (Doctoral Student)**  
   Department of Electrical and Computer Engineering, College of Engineering  
   **Abstract Title:** “Fast and Accurate Image Classification from a Few Training Images.”  
   Advisor: Matthew Nokleby

9. **Jog, Ruta (Doctoral Student)**  
   Department of Pathology, School of Medicine  
   **Abstract Title:** “Potential Role of Altered Glycine Metabolism in Type II Diabetes.”  
   Advisor: Todd Leff

10. **Joshi, Sheetal (Doctoral Student)**  
    Department of Biomedical Engineering, College of Engineering  
    **Abstract Title:** “A Computational Analysis of Interactions of Oxidative Stress and Antioxidant System in Endothelial Dysfunction.”  
    Advisor: Mahendra Kavdia

11. **Joshwa, Bincy (Doctoral Student)**  
    Department of Nursing, College of Nursing  
    **Abstract Title:** “Intensity and Correlates of Fatigue in Individuals on Hemodialysis.”  
    Advisor: Margaret L. Campbell

12. **Kalpage, Hasini (Doctoral Student)**  
    Department of CMMG, School of Medicine  
    **Abstract Title:** “Role of Serine-47 Phosphorylation Of Cytochrome C In The Brain.”  
    Advisor: Maik Hüttemann

13. **King-Medina, Keyona (Doctoral Student)**  
    Department of Physiology, School of Medicine  
    **Abstract Title:** “Hypertension Precedes Metabolic Syndrome in the ALMS1 (Alstrom Syndrome1) Knockout Rat.”  
    Advisor: Pablo A. Ortiz

14. **Kratkiewicz, Karl (Doctoral Student)**  
    Department of Biomedical Engineering, College of Engineering  
    **Abstract Title:** “Photoacoustic Computed Tomography for Developing Low Cost Neonatal Brain Imaging.”  
    Advisor: Mohammad Nasiriavanaki
15. Lendrum, Jenny (Doctoral Student)
   Department of Sociology, College of Liberal Arts and Sciences
   Advisor: Heidi Gottfried

16. Malesh, Vytautas (Doctoral Student)
   Department of English, Liberal Arts and Sciences
   Abstract Title: “Rhetoric in Blue: Rhetorical Confusion and Non Conformity in Police Uniforms from the 19th Century to the Present.”
   Advisor: Frances Ranney

17. Manning, Morenci (Doctoral Student)
   Department of Oncology, Medicine
   Abstract Title: “Role of Novel Oncogene SLITRK3 in Lung Cancer Metastatic Brain Tumor Formation.”
   Advisor: Aliccia Bollig-Fischer

18. Matheny, Robert (Doctoral Student)
   Department of Communication, Fine, Performing, Communication Arts
   Abstract Title: “Why Can’t We Be Friends: A Relation Turbulence Perspective on Ideological Conflict in Interdependent Relationships.”
   Advisor: Kathryn Maguire

19. McKown, Hayley (Doctoral Student)
   Department of Kinesiology, College of Education
   Abstract Title: “Relationship Between Teacher Appearance and Student Physical Activity in Elementary Physical Education.”
   Advisor: Erin Centeio

20. Mitchell, Allison (Doctoral Student)
   Department of Cancer Biology, Medicine
   Abstract Title: “EMT Transcription Factor FOXQ1 Utilizes the MLL Core Complex as a Transcriptional Co-Factor.”
   Advisor: Guojun Wu

21. Mitchell, Scott (Doctoral Student)
   Department of Communication, College of Fine, Performing & Communication Arts
   Advisor: Kelly M. Young
22. **Mooney, Heather (Doctoral Student)**  
Department of Sociology, College of Liberal Arts and Sciences  
**Abstract Title:** “Shipped Out, Shaped Up, or Slipped Through: Narratives from the Troubled Teen Industry.”  
Advisor: Krista Brumley

23. **Munkanatta Godage, Dhanushka (Doctoral Student)**  
Department of Chemistry, College of Liberal Arts and Sciences  
**Abstract Title:** “SMYD2 Glutathionylation Serves as a Key Mechanism of Sarcomere Destabilization in Stress.”  
Advisor: Young-Hoon Ahn

24. **Mutinda, Samuel (Doctoral Student)**  
Department of Chemistry, Liberal Arts and Sciences  
**Abstract Title:** “Synthesis and Characterization of Co2-xRhxP and Co2-xRuxP Nanoparticles: Novel Catalysts for Water Splitting and Hydrodesulfurization.”  
Advisor: Stephanie Brock

25. **Muzzarelli, Kendall (Doctoral Student)**  
Department of Biochemistry, Microbiology and Immunology, School of Medicine  
**Abstract Title:** “Elucidation of the Norovirus GII.4 Protease Structure by X-ray Crystallography.”  
Advisor: Ladislau Kovari

26. **Naperala, Nancy (Doctoral Student)**  
Department of Communication Sciences and Disorders, College of Liberal Arts and Sciences  
**Abstract Title:** “Deconstructing Cognitive-Linguistic Performance: Limited Capacity Processing & Everyday Discourse Behaviours.”  
Advisor: Margaret Greenwald

27. **Nezhad, Milad (Doctoral Student)**  
Department of Industrial and Systems, Engineering  
**Abstract Title:** “Subic: A Supervised Bi-Clustering Approach for Precision Medicine.”  
Advisor: Kai Yang

28. **Nguyen, Dao (Doctoral Student)**  
Department of Mathematics Department, College of Liberal Arts and Sciences  
**Abstract Title:** “Optimal Control of a Perturbed Sweeping Process.”  
Advisor: Boris Mordukhovich
29. **Nguyen, Thu (Doctoral Student)**  
Department of Mathematics, College of Liberal Arts and Sciences  
**Abstract Title:** “Control Performance of Connected and Automated Vehicles with Communication Erasure Channels.”  
Advisor: George Yin

30. **Nickell, Jacob (Doctoral Student)**  
Department of Communication, Fine, Performing, Communication Arts  
**Abstract Title:** “Ugly, Bloody, Sexy: A Rhetorical Analysis of Mileena of the Mortal Combat Video Game Series.”  
Advisor: Kelly M. Young

31. **Nowak, Katherine (Doctoral Student)**  
Department of Nutrition and Food Science, Liberal Arts and Sciences  
**Abstract Title:** “The Impact of Psychobehavioural Traits and Fitness Level on Physiological Response to Exhaustive Aerobic Exercise in Adults.”  
Advisor: Paul Burghardt

32. **O'Hara, Nolan (Doctoral Student)**  
Department of Neuroscience, Medicine  
**Abstract Title:** “Relationships Between Cortical Surface Measures, Tractography, and Neuropsychic Data In Specific Language Impairment.”  
Advisor: Jeong-Won Jeong

33. **Olya, Mohammad-Hessam (Doctoral Student)**  
Department of Industrial and Systems, Engineering  
**Abstract Title:** “Stochastic Optimization Models for Chronic Disease Operations Management.”  
Advisor: Kai Yang

34. **Pelliccio, Lukas (Doctoral Student)**  
Department of Communication, College of Fine, Performing & Communication Arts  
**Abstract Title:** “A Grounded Theory of the Process of Interpersonal Ostracism Message Meaning Making.”  
Advisor: Kathryn Maguire

35. **Pham, Dat (Doctoral Student)**  
Department of Mathematics, College of Liberal Arts and Sciences  
**Abstract Title:** “Full Stability of General Parametric Variational Systems.”  
Advisor: Boris Mordukhovich
36. Popielarz, Kaitlin (Doctoral Student)  
Department of K-12 Curriculum & Instruction, College of Education  
Abstract Title: “Preparing Teacher Candidates Through Community Space.”  
Advisor: Thomas Pedroni

37. Rao, Pushpa (Doctoral Student)  
Department of Anatomy and Cell Biology, Graduate School  
Abstract Title: “Development of Hypoxia and Prevalence of Glycolytic Metabolism in Herpes Stromal Keratitis.”  
Advisor: Susmit Suvas

38. Rathnayake, Udumbara (Doctoral Student)  
Department of Chemistry, College of Liberal Arts and Sciences  
Abstract Title: “Indirect TRNA Aminoacylation and Transamidosome Formation in Helicobacter and Mycobacterium.”  
Advisor: Tamara L. Hendrickson

39. Roostaei, Javad (Doctoral Student)  
Department of Civil and Environmental Engineering, College of Engineering  
Abstract Title: “CO2 Sequestration by Wastewater-Based Algae in the US, a Sustainable Method for Combating Climate Change.”  
Advisor: Yongli Zhang

40. Roy, Indrakshi (Doctoral Student)  
Department of Economics, College of Liberal Arts and Sciences  
Abstract Title: “Are Older Workers Ready to Retire? Effects of the Great Recession on Older U.S Workers and their Compensation, including Fringe Benefits.”  
Advisor: Gail Jensen Summers

41. Sadatijafarkalaei, Najibesadat (Doctoral Student)  
Department of Industrial and Systems, Engineering  
Abstract Title: “Observational Data-Driven Modeling and Optimization of Manufacturing Processes.”  
Advisor: Ratna Babu Chinnam

42. Sakhtemani, Ramin (Doctoral Student)  
Department of Chemistry, College of Liberal Arts and Sciences  
Abstract Title: “Mapping Uracils to the Genome.”  
Advisor: Ashok Bhagwat
43. Schell, Maria (Doctoral Student)  
Department of Social Work, Social Work  
Abstract Title: “Parental Factors and use of Spanking in the Home: Do Parenting Goals Play a Role.”  
Advisor: Faith Hopp

44. Seblini, Nour (Doctoral Student)  
Department of Classical and Modern Languages, Literatures, and Cultures, College of Liberal Arts and Sciences  
Abstract Title: “Arabians Beyond the Seas: Latin America in the Eyes of Syrian Refugees.”  
Advisor: Michael Giordano

45. Senanayake, Kavindya (Doctoral Student)  
Department of Physics & Astronomy, College of Liberal Arts and Sciences  
Abstract Title: “Diffusion of Charged Nanoparticles within a Weakly Charged Polyelectrolyte Solution.”  
Advisor: Ashis Mukhopadhyay

46. Shafi, Adib (Doctoral Student)  
Department of Computer Science, College of Engineering  
Abstract Title: “A Meta-Analysis Approach to Identify Influenza Meta Signature Using Transcriptomic Data.”  
Advisor: Sorin Draghici

47. Shokeen, Namita (Doctoral Student)  
Department of Physics, Liberal Arts and Sciences  
Abstract Title: “Comparison of Nanoparticle Diffusion using Fluorescence Correlation Spectroscopy and Differential Dynamic Microscopy within Concentrated Polymer Solutions.”  
Advisor: Ashis Mukhopadhyay

48. Shumway, Michael (Doctoral Student)  
Department of English, Liberal Arts and Sciences  
Abstract Title: “Social Utility: Redefining Foreignness in Early Modern Literature.”  
Advisor: Simone Chess

49. Silverstein, Brian (Doctoral Student)  
Department of Translational Neuroscience Program, School of Medicine  
Abstract Title: “Structural Connectivity Across Stimulation-Defined Critical Language Areas.”  
Advisor: Eishi Asano
50. Slocum, Kat (Doctoral Student)
Department of Anthropology, College of Liberal Arts and Sciences
Advisor: Thomas Killion

51. Snapp, Erin (Doctoral Student)
Department of Division of Kinesiology, College of Education
Abstract Title: “Environmental Factors Predicting Sedentary Behavior in Inner-City Middle School Aged Children.”
Advisor: Jeffrey Martin

52. Stafford, Jaime (Doctoral Student)
Department of Center for Molecular Medicine and Genetics, School of Medicine
Abstract Title: “Missing Heritability and Novel Germline Risk Loci in Hereditary Ovarian Cancer: Insights from Whole Exome Sequencing and Functional Analyses.”
Advisor: Michael A. Tainsky

53. Steel, Elisabeth (Doctoral Student)
Department of Biomedical Engineering, College of Engineering
Abstract Title: “Conductive Hyaluronic Acid Carbon Nanotube Nanofibers for Neural Tissue Engineering.”
Advisor: Harini Sundararaghavan

54. Steinberg, Davia (Doctoral Student)
Department of Psychology, College of Liberal Arts and Sciences
Abstract Title: “Four or more: An examination of the Adverse Childhood Experiences that Most Accurately Predict Perpetration of Electronic Dating Aggression.”
Advisor: Valerie Simon

55. Sweidan, Wafaa (Doctoral Student)
Department of Psychiatry, School of Medicine
Abstract Title: “Cortical and Subcortical Structural and Inflammatory Changes in Huntington Disease.”
Advisor: Navid Seraji Bozorgzad

56. Toseef, Mohammad Usama (Doctoral Student)
Department of Economics, College of Liberal Arts and Sciences
Abstract Title: “Effects of Medicaid Health Maintenance Organizations on the Incidence of Avoidable Hospitalizations.”
Advisor: Gail Jensen Summers
57. Viviano, Raymond (Doctoral Student)  
Department of Psychology, Graduate School  
Abstract Title: “Anterior and Posterior Memory System Functional Connectivity and Working Memory Performance in Subjective Memory Complaints.”  
Advisor: Jessica Damoiseaux

58. Watuthanthrige Perera, Madusha Lakshani (Doctoral Student)  
Department of Chemistry, College of Liberal Arts and Sciences  
Abstract Title: “A Novel Class of Chemicals that React with Abasic Sites in DNA and Specifically Kill B Cell Cancers.”  
Advisor: Ashok Bhagwat

59. Wood, Whitney (Doctoral Student)  
Department of Chemistry, College of Liberal Arts and Sciences  
Abstract Title: “Functional Investigation of Indirect TRNA Aminoacylation in Human Pathogens.”  
Advisor: Tamara L. Hendrickson

60. Yadav, Brijesh (Doctoral Student)  
Department of Biomedical Engineering, College of Engineering  
Abstract Title: “Model Independent Estimation of Cerebral Venous Oxygenation in the Human Fetus.”  
Advisor: E. Mark Haacke

61. Yan, Yan (Doctoral Student)  
Department of Biomedical Engineering, College of Engineering  
Abstract Title: “Endocavity Ultrasound and Photoacoustic Imaging System to Evaluate Fetal Brain Perfusion and Oxygenation: Preliminary ex vivo Studies.”  
Advisor: Mohammad Mehrmohammadi

62. Zafar, Mohsin (Doctoral Student)  
Department of Biomedical Imaging, Engineering  
Abstract Title: “In Vivo Imaging of Rat Brain Using Low Cost 16 Element Photoacoustic Computed Tomography.”  
Advisor: Mohammad Nasiriavanaki

63. Zhang, Caojin (Doctoral Student)  
Department of Mathematics, Liberal Arts and Sciences  
Abstract Title: “Near-Optimal Stopping Rules for Time Line Systems Markovuiian System.”  
Advisor: George Yin
64. Zhao, Zhongyang (Doctoral Student)
Department of Electrical and Computer Engineering, College of Engineering
Abstract Title: “Improvement to the Prediction of Fuel Cost Distribution Using ARIMA Model.”
Advisor: Caisheng Wang

65. Zuair, Areeg (Doctoral Student)
Department of Nursing, Nursing
Abstract Title: “The Prevalence of Obesity among Arab American Adolescents in a Clinical Setting.”
Advisor: Rosalind Peters
3MT Competition

1. **Alharthi, Majed (Doctoral Student)**
   Department of Learning Design & Technology, College of Education
   **Abstract Title**: “Using Social Media in Flipped Classrooms in Saudi Universities: Faculty Members’ Experiences”
   Advisor: Ke Zhang

2. **Anzell, Anthony (Doctoral Student)**
   Department of Physiology, School of Medicine
   **Abstract Title**: “Stroke and Mitochondria, To Be or Not to Be”
   Advisor: Karin Przyklenk

3. **Dave, Kunal (Master’s Student)**
   Department of Mechanical Engineering, College of Engineering
   **Abstract Title**: “Development and Validation of a detailed Finite Element Model of Human Eye for Predicting Ocular Trauma during Blast and Blunt Impact.”
   Advisor: Liying Zhang

4. **Elam, Allison (Master’s Student)**
   Department of Communication, College of Fine, Performing & Communication Arts
   **Abstract Title**: “Beward of Bots?”
   Advisor: Fred Vultee

5. **Grasser, Lana (Doctoral Student)**
   Department of Translational Neurosciences, School of Medicine
   **Abstract Title**: “Through the Eyes of Trauma: From Risk and Resilience to Healing Through Family Intervention Programs”
   Advisor: Arash Javanbakht

6. **Hone, Rachael (Master’s Student)**
   Department of Education Evaluation & Research, College of Education
   **Abstract Title**: “Phenomenon of Self-Efficacy”
   Advisor: Shlomo Sawilowsky

7. **Munhanatta Godage, Dhanushka (Doctoral Student)**
   Department of Chemistry, College of Liberal Arts and Sciences
   **Abstract Title**: “Broken Hearts: Stress and its Relationship to Protein Oxidation”
   Advisor: Young Hoon Ahn
8. **Palazzolo, Thomas (Doctoral Student)**  
Department of Computer Science, College of Engineering  
**Abstract Title:** “The Cultural Algorithm”  
Advisor: Robert Reynolds

9. **Seblini, Nour (Doctoral Student)**  
Department of Classical and Modern Languages, College of Liberal Arts and Sciences  
**Abstract Title:** “Arabs beyond the Seas: Latin America in the Eyes of Syrian Immigrants”  
Advisor: Victor Figueroa

10. **Steel, Elisabeth (Doctoral Student)**  
Department of Biomedical Engineering, College of Engineering  
**Abstract Title:** “Conductive Biopolymer Nanofibers for Neural Regeneration”  
Advisor: Harini Sundararaghavan
THE GRADUATE SCHOOL CONTRIBUTING ADMINISTRATION AND STAFF

Dr. Ambika Mathur, Associate Provost and Dean

Dr. Annmarie Cano, Associate Dean for Student Services

Dr. Todd Leff, Associate Dean for Professional Development

Dr. Tim Stemmler, Associate Dean of Postdoctoral Affairs

Tricia Koufes, Manager, Dean’s Office

Karen Schramm, Manager, Ph.D. Awards and Events

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Terri Renaud, Student Assistant
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