



Questions? Comments?  
Contact the GSC at UofL  
[gscpres@louisville.edu](mailto:gscpres@louisville.edu) or  
[louisville.edu/graduate/gsc](http://louisville.edu/graduate/gsc)

# Graduate Student Regional Research Conference

**April 1st & 2nd 2016**

**University of Louisville**

**Health Sciences and Belknap  
Campuses**

**Sponsored and hosted by  
the UofL Graduate Student  
Council**

**Co-sponsored by the  
Student Activities Board**

**Events:** ■ *Reception & Awards Galas* ■  
■ *Professional Development Career Fair and  
Workshop* ■ *3-Minute Thesis Competition* ■  
■ *60+ presentations* ■ *Keynote Addresses by  
Dr. Gregory Semenza and Dr. Dave McIntosh* ■  
■ *Community Engagement Symposium* ■

# Graduate Student Regional Research Conference Program

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## Useful Information

### **BUILDING LOCATIONS**

#### **Friday, April 1<sup>st</sup>, 2016**

George J. Howe Red Barn  
*University of Louisville – Belknap Campus*

Kornhauser Auditorium  
*University of Louisville – Health Sciences Campus*

#### **Saturday, April 2<sup>nd</sup>, 2016**

Chao Auditorium, Ekstrom Library  
*University of Louisville – Belknap Campus*

Lutz, Bingham, & Strickler  
*University of Louisville – Belknap Campus*

### **PARKING**

Parking for Belknap Campus events on Friday, April 1<sup>st</sup>, 2016 can be obtained in the Floyd Street Garage or any other pay lot noted on the parking map, or with a student parking pass.

Parking at the Health Sciences Campus on Saturday, April 2<sup>nd</sup>, 2016 is available on Muhammad Ali Blvd., Floyd St., and other surrounding streets.

Parking on Saturday, April 2<sup>nd</sup>, 2016 is available in any red, green, or blue surface lot on the Belknap Campus.

## MAPS

[Campus Maps](#)

[Parking Maps/Visitor Parking](#)

## CONTACT INFORMATION

### Graduate Student Research Conference Co-Chairs:

<b>GSC Director of Information -</b>	<b>Neha Angal</b> Email: <a href="mailto:neha.angal@louisville.edu"><u>neha.angal@louisville.edu</u></a>
<b>GSC External Vice President -</b>	<b>Brandon McReynolds</b> Email: <a href="mailto:brandon.mcreynolds@louisville.edu"><u>brandon.mcreynolds@louisville.edu</u></a>
<b>GSC President -</b>	<b>Femmy Rose</b> Email: <a href="mailto:femmaeve.macqueen.rose@gmail.com"><u>femmaeve.macqueen.rose@gmail.com</u></a>

**Friday, April 1<sup>st</sup>, 2016**

<b>1:00PM – 3:00PM</b>	<b>3-Minute Thesis Competition</b>	<b>RED BARN</b>
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Elaheh Arabmakki  
Ian Boggero  
Francisco Javier Bonilla  
Adam Booth  
Jessica Cresseveur  
Alexis Keen Crook  
Megan DeVries  
Milad Ebrahimi  
Elizabeth Gordon  
Jaspreet Grewal  
Nicholas Holt

Harish Irrinki  
Mahshid Jessri  
Sujita Khanal  
Hossein Mirinejad  
Mohammad Mohebbi  
Apurva Tadimiri Prabhakar  
Campbell Rightmyer  
Mohammad Nasser Saadatzi  
Mehdi Sabraoui  
Anju Panicker Madhusoodh anan Sathik  
Tyler Short

<b>4:00PM – 6:00PM</b>	<b>Community Engagement Symposium</b>	<b>RED BARN</b>
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**POSTERS**

ASSESSING THE EFFECTIVENESS OF DUI DIVERSION PROGRAMS IN LOUISVILLE, KY.

*Shemika Hopson*

AUTOMATIC VISUAL ASSESSMENT FOR PARKINSON'S DISEASE.

*Faezeh Tafazzoli*

A FULLY AUTOMATED NON-INVASIVE FRAMEWORK FOR EARLY DETECTION OF ACUTE RENAL REJECTION USING DIFFUSION-WEIGHTED MRI.

*Mohamed Shehata*

**PAPERS**

CHANGES IN END-OF-LIFE EDUCATION FOR CRITICAL CARE HEALTHCARE PROFESSIONALS.

*Adam Booth*

EXPLORING IMPACT IN UNIVERSITY-COMMUNITY PARTNERSHIPS: COMMUNITY PARTNER DEFINITIONS, PERSPECTIVES, AND IMPLEMENTATION STRATEGIES.

*Amanda Bowers and Dr. Meera Alagaraja*

CHRONIC PAIN IS ASSOCIATED WITH LONELINESS AND REDUCED SOCIAL FUNCTIONING.

*Ian Boggero*

GROWING TRAUMA-INFORMED RESETTLEMENT SERVICES: A MIXED-METHODS STUDY OF THE BARRIERS AND OPPORTUNITIES AROUND IMPLEMENTATION.

*Jennifer Ballard-Kang*

ASSESSING THE POTENTIAL OF PHOSPHORUS REMOVAL STRATEGIES BY ENVIRONMENTAL AND COST LIFE CYCLE ASSESSMENT (CASE STUDY: FLOYDS FORK WATER QUALITY TREATMENT CENTER).

*Milad Ebrahimi*

SMART BRIEF MONITORING SYSTEM FOR ASSISTED LIVING.

*Mohammad Mohebbi*

"LA MINGA IS MY LIFE:" A THESIS ON THE MOTIVATIONS OF IMMIGRANT AND NATIVE-CITIZEN GARDENERS AT LA MINGA COOPERATIVE FARM.

*Tyler Short*

**Saturday, April 2<sup>nd</sup>, 2016**

<b>12:00PM – 1:00PM</b>	<b>Poster Session A</b>	<b>LUTZ HALL FOYER</b>
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1. MORAL DISTRESS: CONCEPT ANALYSIS.

*Adam Booth*

2. PURIFICATION AND INITIAL CHARACTERIZATION OF SELECTED PROTEINS SECRETED VIA TYPE IX SECRETION SYSTEM (T9SS) FROM PORPHYROMONAS GINGIVALIS.

*Apoorv Goel*

3. CARGO PROTEINS OF TYPE 9 SECRETION SYSTEM.

*Apurva Tadimari Prabhakar*

4. EXPLAINABLE MATRIX FACTORIZATION FOR COLLABORATIVE FILTERING.

*Behnoush Abdollahi*

5. PHOTOGRAMMETRY AT LAPA DO PICAREIRO: INNOVATIVE TECHNIQUES FOR RECORDING SPATIAL INFORMATION AT A PALEOLITHIC SITE.

*Brandon Zinsious*

6. GENDER IN REAL-WORLD SPATIAL DOMAINS.

*Campbell Rightmyer*

7. THE EFFECT OF VICTIM RELIGION ON JUROR PERCEPTIONS OF HATE CRIMES.

*Casey Magyarics*

8. LEARNING ABOUT ECONOMIC SYSTEMS: DEVELOPING CONCEPTS OF FUNGIBILITY.

*Catherine Mcdermott*

9. THE HEPATIC AND PULMONARY “MATRISOMES” RESPOND DYNAMICALLY TO INFLAMMATORY INJURY: PROTEOMIC CHARACTERIZATION OF TRANSITIONAL ECM CHANGES IN THE LIVER AND LUNG.

*Christine Dolin*

10. DEVELOPING A MORE CLINICALLY RELEVANT MOUSE MODEL OF CISPLATIN NEPHROTOXICITY.

*Cierra Sharp*

11. SYMPTOM INTERFERENCE AND ACADEMIC FUNCTIONING IN COLLEGE-AGED STUDENTS WITH OBSESSIVE-COMPULSIVE SYMPTOMS.

*Darlene Davis*

12. A CLASSIFICATION FRAMEWORK FOR IMBALANCED DATA STREAM WITH CONCEPT DRIFT.

*Elaheh Arabmakki*

13. AUTOMATIC VISUAL ASSESSMENT FOR PARKINSON'S DISEASE.

*Faezeh Tafazzoli*

14. MODIFICATIONS OF CO /PD SUPERLATTICES WITH PERPENDICULAR MAGNETIC ANISOTROPY UNDER EXCITATION BY AN ULTRAFast LIGHT FIELD.

*Farzaneh Hoveyda*

15. OPTIMAL DRUG ADMINISTRATION IN THE TREATMENT OF RENAL ANEMIA USING A RADIAL BASIS FUNCTION METHOD.

*Hossein Mirinejad*

<b>3:00PM – 4:00PM</b>	<b>Poster Session B</b>	<b>LUTZ HALL FOYER</b>
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1. 6-PHOSPHOFRUCTO-2-KINASE/FRUCTOSE-2,6-BIPHOSPHATASE 3 (PFKFB3) IS NECESSARY FOR HUMAN MELANOMA MDSC DIFFERENTIATION AND FUNCTION.

*Jaspreet Grewal*

2. AIR POLLUTION, PULMONARY OXIDATIVE STRESS, AND THE ENDOTHELIN SYSTEM IN THE DEVELOPMENT OF CARDIOVASCULAR DISEASE.

*Jordan Finch*

3. MIROLYSIN- A NOVEL MEMBER OF KLIKK FAMILY OF PROTEASES AND POTENTIAL VIRULENCE FACTOR OF TANNERELLA FORSYTHIA.

*Lahari Koneru*

4. ALCOHOL ENHANCES ENDOTOXEMIA-INDUCED ACUTE LUNG INJURY: ROLE OF PLASMINOGEN ACTIVATOR INHIBITOR-1.

*Lauren Poole*

5. THE SCIENCE OF SOCIAL WORK DEBATE.

*M.A. Van Zyl, A. N. Verbist, T. A. Thomas, J. Sears, J. Wilfong, S. Mount, & R. Sabree*

6. CORPORATE EMPLOYEE TRADE-OFFS IN THEIR DECISION TO PARTICIPATE IN CORPORATE VENTURES: A SELF-EFFICACY PERSPECTIVE.

*Mahshid Jessri & Vasiliki Kosmidou*

7. FORMAL METHODS FOR ICS SECURITY.

*Mehdi Sabraoui*

8. LATE MAGDALENIAN LITHIC TECHNOLOGICAL ORGANIZATION: NEW DATA FROM LAPA DO PICAREIRO.

*Melissa Holst*

9. HIGH PRESSURE SYNTHESIS OF RHOMBOHEDRAL DELAFOSSITE STRUCTURED  $\hat{I}\pm$ -AGGAO<sub>2</sub>.

*Meysam Akhtar*

10. A FULLY AUTOMATED NON-INVASIVE FRAMEWORK FOR EARLY DETECTION OF ACUTE RENAL REJECTION USING DIFFUSION-WEIGHTED MRI.

*Mohamed Shehata*

11. PEDAGOGICAL AGENT FOR INDIVIDUALS WITH AUTISM SPECTRUM DISORDERS.

*Mohammad Nasser Saadatzi*

12. BIOFEEDBACK EYEGLASSES FOR UNOBTRUSIVE COMMUNICATION AND LOGGING OF AUTONOMIC ACTIVITY.

*Mohammad Nasser Saadatzi*

13. DOES MOTOR DEVELOPMENT PREDICT WHAT INFANTS LEARN ABOUT OBJECTS FROM MANUAL EXPLORATION EXPERIENCE?

*Nicholas A. Holt*

14. ASSESSING THE EFFECTIVENESS OF DUI DIVERSION PROGRAMS IN LOUISVILLE, KY.

*Shemika Hopson*

15. MARITAL CONFLICT AND PROBLEM DRINKING: THE ROLE OF DRINKING MOTIVATIONS.

*Taylor Elsey*

16. SENTIMENTAL ANALYSIS ON SOCIAL NETWORKS BY COMBINING LEXICAL KNOWLEDGE AND AUGMENTED LABELING.

*Wenlong Sun*

17. ASSOCIATIONS BETWEEN CUMULATIVE TRAUMA EXPOSURE AND EMOTION FOLLOWING ACUTE STRESS.

*Yvette Szabo*

18. DNA METHYLATION PROFILING OF VERY SMALL EMBRYONIC-LIKE STEM CELLS (VSELS) AND HUMAN EMBRYONAL CARCINOMA NTERA2: INSIGHT INTO METHODS OF UNLOCKING THE QUIESCENT GENOME.

*Zach Sellers*

<b>1:00PM – 2:00PM</b>	<b>Paper Session A1</b>	<b>BINGHAM 300</b>
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OPTICS BEYOND THE RED.

*Elijah Jensen*

SEMI-EMPIRICAL STUDY OF LOW DIMENSIONAL BORON NANOSTRUCTURES BUILT BY THE ICOSAHEDRAL BORON B<sub>12</sub> CLUSTERS.

*Cherno Baba Kah*

FIRST-PRINCIPLE STUDY OF THE ENERGY BARRIER AND DIFFUSIVITY OF A LI ATOM ON PHOSPHORENE.

*Congyan Zhang*

FAULT DETECTION FOR LINEAR VAPOR COMPRESSOR USING RISE OBSERVER.

*Mohammad Mohebbi*

<b>1:00PM – 2:00PM</b>	<b>Paper Session A2</b>	<b>STRICKLER 139</b>
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FROM PENS TO THE PRESS: TEXTUAL PRODUCTION AND GENERIC CHANGE IN 18TH-CENTURY EPISTOLARY CULTURE.

*Keri Mathis*

INTERPRETING LIGETT'S "LE GRANDE MACABRE" AS A SURREALIST COLLAGE.

*Trevor DeJarnett*



ENVIRONMENTAL HISTORY OF THE PANAMA CANAL ZONE.

*Francisco Javier Bonilla*

THE QUEER CHILD AND HAUT BOURGEOIS DOMESTICITY: BERTHE MORISOT AND MARY CASSATT.

*Jessica Cresseveur*

<b>2:00PM – 3:00PM</b>	<b>Paper Session B1</b>	<b>BINGHAM 300</b>
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GROWING TRAUMA-INFORMED RESETTLEMENT SERVICES: A MIXED-METHODS STUDY OF THE BARRIERS AND OPPORTUNITIES AROUND IMPLEMENTATION.

*Jennifer Ballard-Kang*

"LA MINGA IS MY LIFE:" A THESIS ON THE MOTIVATIONS OF IMMIGRANT AND NATIVE-CITIZEN GARDENERS AT LA MINGA COOPERATIVE FARM.

*Tyler Short*

CULTURAL COMPETENCY IN MENTAL HEALTH OUTPATIENT FACILITIES.

*Alexis Keen Crook*

INVISIBLE ILLNESS... VISIBLE ME: DEVELOPING PATIENT AGENCY IN FIBROMYALGIA BLOGS.

*Caitlin Ray*

<b>2:00PM – 3:00PM</b>	<b>Paper Session B2</b>	<b>STRICKLER 139</b>
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EFFECTS OF POWDER ATTRIBUTES AND LASER POWDER BED FUSION (L-PBF) PROCESS CONDITIONS ON THE DENSIFICATION AND MECHNAICAL PROPERTIES OF 17-4PH STAINLESS STEEL.

*Harish Irrinki*

CARDIO-PULMONARY RESUSCITATION (CPR) SCENE RETRIEVAL FROM MEDICAL SIMULATION VIDEOS.

*Anju Panicker Madhusoodh anan Sathik*

AN OPTIMIZED BIOLOGICAL APPROACH FOR TREATMENT OF PETROLEUM REFINERY WASTEWATER.

*Milad Ebrahimi*

PEDAGOGICAL AGENT FOR INDIVIDUALS WITH AUTISM SPECTRUM DISORDERS.

*Mohammad Nasser Saadatzi*

<b>4:00PM – 5:00PM</b>	<b>Paper Session C1</b>	<b>BINGHAM 300</b>
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THE ROLES OF NUTRIENT AVAILABILITY AND PHYSICAL STRUCTURE IN SHAPING AQUATIC COMMUNITIES IN AGUAJE PHYTOTELMATA.

*Ethan Staats*

CHANGES IN END-OF-LIFE EDUCATION FOR CRITICAL CARE HEALTHCARE PROFESSIONALS.

*Adam Booth*

HISTOLOGIC VARIATION IN HIGH GRADE ORAL EPITHELIAL DYSPLASIA (OED) WHEN ASSOCIATED WITH HIGH-RISK HUMAN PAPILLOMAVIRUS (HPV).

*Sujita Khanal*

NOVEL REGULATION OF IGF1R BY UBIQUILIN1.

*Zimple Kurlawala*

<b>4:00PM – 5:00PM</b>	<b>Paper Session C2</b>	<b>STRICKLER 139</b>
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SOCIAL BELONGING AND FIRST-YEAR ENGINEERING MATHEMATICS: A COOPERATIVE LEARNING INTERVENTION.

*Joanna Weaver*

CHRONIC PAIN IS ASSOCIATED WITH LONELINESS AND REDUCED SOCIAL FUNCTIONING.

*Ian Boggero*

EXPLORING IMPACT IN UNIVERSITY-COMMUNITY PARTNERSHIPS: COMMUNITY PARTNER DEFINITIONS, PERSPECTIVES, AND IMPLEMENTATION STRATEGIES.

*Amanda Bowers, Dr. Meera Alagaraja*

CONJOINT ANALYSIS AND COMPLEX DECISIONS.

*Shaun Paul Digan, Mahshid Jessri*