PARTICIPATING PROGRAMS

EBICS REU
National Science Foundation Center on Emergent Behaviors of Integrated Cellular Systems

EFRI REM
Emerging Frontiers in Research and Innovation Research Experience and Mentoring

FRONTIERS IN BIOMEDICAL IMAGING REU
National Science Foundation Research Experience for Undergraduates for Frontiers in Biomedical Imaging

GSEF
Graduate School Exploration Fellowship

MCNAIR AT ILLINOIS
TRiO Ronald E. McNair Postbaccalaureate Achievement Program

POETS
Power Optimization of Electro-Thermal Systems

PRECS
Phenotypic Plasticity Research Experience for Community College Students

REACH PROGRAM
Research & Education for the Advancement of Compassionate Healthcare

REU-INCLUSION
Incubating a New Community of Leaders Using Software, Inclusion, Innovation, Interdisciplinary & Open-Science

SPI
Summer Predoctoral Institute

SROP AT ILLINOIS
Summer Research Opportunities Program for Undergraduates at the University of Illinois at Urbana-Champaign

SROP AT UIC
Summer Research Opportunities Program for Undergraduates at the University of Illinois at Chicago

SURE TOX
Summer Undergraduate Research Experience in Toxicology at the University of Illinois
Welcome to the 2019 Summer Research Symposium. The Graduate College at Illinois is very proud to sponsor this annual symposium, which showcases our equity and diversity programs along with the exceptional research talents of the next generation of scholars.

This year’s conference is the culmination of two longstanding Graduate College programs, SPI and SROP at Illinois, and 14 partner programs—each of which is dedicated to broadening participation in graduate education.

The success of these programs depends on the boundless energy and aspiration of the participating students as well as the dedication of the team leaders, program directors, and staff who help those students thrive. It is also the result of the commitment and inspiration of faculty who serve as mentors. Their passion and generosity make achievement possible and we are deeply appreciative of their time and effort.

On behalf of the Graduate College, I’d like to thank you for joining us for the 2019 Illinois Summer Research Symposium. Your participation is truly appreciated.

Sincerely,

Wojtek Chodzko-Zajko
Dean of the Graduate College
WORKSHOPS

Building a Strong STEM Graduate Program Application

Learn how to navigate strategically the graduate school admissions process and how to develop a competitive application to a STEM graduate program. Gain valuable advice on admission to a top-ranked STEM doctoral program and scholarship competitions. Learn more about various admission requirements, the application process at Illinois, financial aid opportunities, evaluation of multiple offer and programs, and other considerations for success in graduate school.

Ellen Wang Althaus, PhD is Director of the Sloan University Center of Exemplary Mentoring (UCEM) at the University of Illinois at Urbana-Champaign. She is responsible for the development, implementation, and day-to-day operations of the Illinois UCEM, which provides scholarships to and mentoring of doctoral students from underrepresented populations in engineering, physical and mathematical sciences. Althaus assisted with the successful launch of the UCEM in 2015 and Sloan grant renewal in 2018. She manages the recruitment, transition, professional development, and ongoing support of Sloan Scholars across 19 STEM departments.

Althaus has a longstanding passion for broadening the participation among groups historically underrepresented in STEM fields, and for fostering the personal, academic and professional development of graduate students. After completing her bachelor’s degree in chemistry from Carleton College (1989), Dr. Althaus earned her M.S. (1991) and Ph.D. (1995) in inorganic chemistry from Northwestern University. In her early academic career, she taught chemistry at Wheaton College, IL and at the University of Illinois at Urbana Champaign. Dr. Althaus served for over a decade as the Director of Graduate Diversity in the Illinois Chemistry Department - originally the Women in Chemistry Program, which she proposed and initiated in 2006.
Essentialism: the Art of Saying ‘Yes’ and ‘No’

Do you find yourself being overwhelmed with tasks and responsibilities? Do you find it difficult to decline requests, even those you really don’t care for? If so, “Essentialism: the Art of Saying ‘Yes’ and ‘No’” may be just the prescription you need. Through a facilitated discussion, participants will work to quickly distinguish “mission critical tasks” from “good but unnecessary tasks.” We will discuss the difference between the “urgent” and the “important,” while brainstorming strategies for respectfully declining the former. By identifying your “essential intent,” you will be able to more quickly and easily say “yes” and “no,” increasing your productivity and sense of wellness.

Daniel Wong currently serves as Director of Graduate Student Recruitment and Retention in the Graduate College Office of Diversity, Equity, and Inclusion (DEI) at the University of Illinois. He and his staff oversee a suite of programs designed to attract and support students—particularly those from populations underrepresented in graduate study at Illinois. He is an in-demand speaker and is regularly asked to present both on-campus and nationally on topics including “addressing equity and inclusion,” “sustainable productivity,” and “conflict resolution.” He received his bachelor’s degrees in Biochemistry and English from the University of Kansas and his Ph.D. in English Literature from the University of Illinois.
THURSDAY, JULY 18

12:00 – 1:30  Check-in – Chancellor Ballroom
12:00 – 1:30  Lunch for Registered Attendees – Illinois Ballroom
1:15 – 1:30   Welcome – Illinois Ballroom
              Speaker: Daniel Wong, Director of Recruitment & Retention, Graduate College
1:45 – 2:45   Session 1: Poster Presentations – Chancellor Ballroom
3:00 – 4:00   Session 2: Poster Presentations – Chancellor Ballroom
4:15 – 5:15   Professional Development Workshops
              Building a Strong STEM Graduate Program Application – Alma Mater
              Essentialism: the Art of Saying ‘Yes’ and ‘No’ – Lincoln
5:30 – 6:15   Dinner for Registered Attendees – Illinois Ballroom
6:30 – 8:00   Dessert & Talent Show – Chancellor Ballroom

FRIDAY, JULY 19

9:30 – 10:30  Session 1: Oral Presentations – Various
10:45 – 11:45 Session 2: Oral Presentations – Various
12:00 – 12:50 Faculty Appreciation Lunch – Illinois Ballroom
              Speaker: Eboni Zamani-Gallaher, Associate Dean, Graduate College
1:00 – 2:00   Session 3: Roundtable Presentations – Chancellor Ballroom
2:15 – 3:15   Session 4: Oral Presentations – Various
3:15 – 3:40   Coffee & Cookie Break
3:45 – 4:45   Session 5: Oral Presentations – Various
5:00 – 6:00   Session 6: Oral Presentations – Various
6:15 – 7:00   Dinner for Registered Attendees – Illinois Ballroom
              Speaker: Wojtek Chodzko-Zajko, Dean, Graduate College
7:00 – 7:30   Award Presentations – Illinois Ballroom
1. Local Adaptation or Plasticity?: Testing the Survival of *L. parva* Larvae across a Salinity Gradient  
   Kaitlyn Cortez | PRECS

2. The Interaction of Fungal Endophytes with Endophytic Yeast  
   Baldemar Basurto | PRECS

3. Effect of Phthalate Exposure on Cognition in Four-Year-Old Children  
   Raya Boyd | SROP-ILLINOIS

4. The Effects of di (2ethylhexyl) phthalate and a High Fat Diet on Ovarian Steroidogenesis during Pregnancy in Mice  
   Giovanni Cook | SROP-ILLINOIS

5. Effects of Iodoacetic Acid on Mice Uteri  
   Asayah Barnwell | SROP-ILLINOIS

6. Direct Impacts of Heat Stress on Illinois Soybeans  
   Jessica O’Connor | PRECS

7. Finding Unique Wing Shapes in *E. americanus* Relating to Phenotypic Changes Due to Migration  
   Jessica Trueblood | PRECS

8. Effects on Pressure Drop and Heat Transfer when Additively Manufacturing Heat Exchangers with Micro-geometries  
   Michaela Perez | SROP-ILLINOIS

   Leanna Troncoso | SROP-ILLINOIS

10. Controlled N-acetylcyesteine Release through Reactive Oxygen Species Responsive Polymer to Treat Oxidative Stress at the Cornea  
    Ishatou Diambou | SROP-ILLINOIS

11. Angiogenesis in Healthy vs. Diabetic Mice Imaged Using Pulsed Power Doppler Ultrasound  
    Cheri McChesney | SROP-ILLINOIS

12. Evaluating Changes in Mechanical Properties of Brain Tissue and their Dependence on Vasodilation Using Magnetic Resonance Elastography  
    Mary Kramer | SROP-ILLINOIS

13. Temporal Dynamics of Extracellular Vesicle Content and Function via Fluorescence Lifetime Imaging and Macrophage Activation  
    Elisabeth Martin | SROP-ILLINOIS

14. Can Label-free Multimodal Non-linear Optical Imaging Assess the Toxicity Effects of Cisplatin in the Mouse Kidney?  
    Endia Fletcher | SROP-ILLINOIS

15. Tracking Neurite Complexity for Better Understanding of Glutathione Redox States  
    Joshua Dupaty | SROP-ILLINOIS

16. Image Segmentation for the Determination of Graphene Coverage in SEM Images  
    Bomsaerah Seong | SROP-ILLINOIS

17. Storm Water Modeling with Green Infrastructure to Reduce Prevalence of West Nile Virus  
    Matas Lauzadis | SROP-ILLINOIS

18. Identifying near Duplicate Images with Deep Learning  
    Francisco Reveriano | SROP-ILLINOIS
19. **Semiconductors and Nanocrystals**  
   Babba Jaden | SROP-ILLINOIS  
   Vasista Vovveti | SROP-ILLINOIS

20. **Prediction of Optical Properties with Artificial Neural Network for Inverse Materials Design**  
    Xiyi Chen | INCLUSION  
    Jaycie Mundell | SROP-ILLINOIS  
    Yuanbo Zhang | SROP-ILLINOIS

21. **Programming a LabVIEW Application to Configure & Communicate with High Frequency Drives**  
    Brandon Colon | SROP-ILLINOIS

22. **Effects of Struvite and Its Placement on Mycorrhizal Colonization and P Uptake in Tomato Plants**  
    Isako Di Tomassi | PRECS

23. **Re-imagining Community: Academic Institutions as Sites of Support or Resistance for Black Gay Men Laboring to Forge Community**  
    Dante Studamire | SPI

24. **Educational Segregation: How Racially Restrictive Covenants and Redlining Are Still Impacting Students in Urban Public Schools**  
    Victor Ruiz-Divas | SPI

25. **Survival and Resistance: Queer/Cuir Performance Art in Guatemala City**  
    Kelly De Leon | SROP-UIC

26. **Non-reciprocity in 1-D Finite Asymmetrical Spring-Mass System using Bilinear Stiffness**  
    Edgar Becerra | EFRI  
    Mark Guo | EFRI

27. **Thermal Conductivity of Solution Based Carbon Nanotube-Copper Composites**  
    Mike Galdamez | SROP-ILLINOIS

28. **Micropollutant Removal by Electrochemically Mediated Processes**  
    Emmanuel Kayiwa | SPI

29. **Flow Behavior of Polymeric Materials**  
    Melanie Brunet | SPI

30. **Removal of Mercury from Water through Electrosorption Using Thiol- Functionalized Electrodes**  
    Paola Baldaguez Medina | SPI

31. **Droplet Impact Studies on Surfaces of Varying Wettability**  
    Kelsey Biscocho | SROP-ILLINOIS

32. **Field Theoretic Simulations of Polymer Solutions**  
    Christian Coon | SPI

33. **Photonic Crystal-Enhanced Quantum Dot Emission and Its Application of Sensing Cancer-associated Exosomal miRNA**  
    Oyindamola Teniola | SROP-ILLINOIS

34. **Daily Yogurt Plus Honey Helps Support Digestive Health Regularity and Comfort**  
    David Alvarado | SPI

35. **Microbial Diversity Analyses on Most Recent American Gut Project Data**  
    Alexis Baldeon | SPI

36. **The tRNA Recognition Mechanism of Human Selenocysteine Synthase**  
    Jennifer Castillo | SROP-UIC

37. **Impact of Cationic Gold Nanoparticles on the Cytoskeleton of Human Cells**  
    Kathy De La Torre | SROP-ILLINOIS
39. Methodology & Science: Lab Techniques and the Transgenic Mice Model to Look into the Role of BCO1 & BCO2 in Lycopene Metabolism  
   Joseph Arballo | SPI

40. Language of African American Single Mothers and Their Financial Resources  
   Zaria Sydnor | SROP-ILLINOIS

41. Effects of Intergenerational Trauma on Identity Formation and Coping of Low Income African American Single Mothers  
   Dureti Godana | SROP-ILLINOIS

42. How to Shoot a Microscale Water Droplet: Droplet Self-transport within a V-groove  
   Yimeng Qin | POETS

43. Enhanced Imaging of Cleared Tissues in Determining HIV Host Interactions  
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44. The Effects of Maternal Stress and SSRI Exposure in Pregnant B6 Mice on Autism-like Behaviors in Offspring  
   Jason Duncan | SROP-UIC

45. Development of a Bioinspired Fluorescent HNO Probe in Biological Systems  
   Ariel Alexander | McNair

46. Depth of Processing in Spanish Heritage Speakers  
   Lizbeth Munoz-Cortes | McNair

47. Successful Resilience among Hispanic High School Dropouts  
   Silvia Olayo | McNair

48. Enhancing Well-Being in Older Adults through Exercise  
   Ronni Brent | SROP-UIC

49. Can Mentoring Relationships Help to Prevent Delinquent Behavior and Arrests among Youth? An Exploratory Cross-Sectional Study  
   Giulia Oros | SROP-UIC

50. Effects of Value on Value-directed Item Memorization Tasks in Young Adults  
   Jonathan Villasenor | SROP-UIC

51. Expression of Fraction Concepts through Manipulative Objects: A Study of Third to Fifth Grade Students  
   Ashley Lebrón-Vázquez | SROP-ILLINOIS

52. Organ Specific Metastasis in ER+ Breast Cancer  
   Jenna Lee | M-Lab
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57. Observing Remyelination via Immunohistochemistry and CLARITY
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58. Evaluation of Endolysins in Queso Fresco
   Daniella Smith | PRECS

59. The Effects of the Exposure to the Endocrine Disruptor Di-2-Ethylhexyl Phthalate in the Dypathalamic POMC and NPY Neurons
   Aidishka Tapia Rivera | SROP-ILLINOIS

60. Stressed Induced Remodeling in the Nematode Caenorhabditis Elegans
   Becky Rose | PRECS

61. Soil Fertility and Arbuscular Mycorrhizal Colonization: Does It Impact Herbivore Induced Plant Volatiles in Tomato?
   Erinn Dady | PRECS

62. Construction of a Tn5 Mutant Library in Xanthomonas cucurbitae
   Keirsten Kline | PRECS

63. Effects of Sub-acute Exposure to DEHP and DiNP Phthalates on Uterine Physiology during Early Pregnancy in Mice
   Karlamarieli Rivera Albertorio | SROP-ILLINOIS

64. The Effect of Phthalate Mixture and BPA Concentrations on Maturation in Xenopus Laevis Oocytes
   Kaleb Lee | SROP-ILLINOIS

65. Analysis of Topologies for Packing and Routing Optimization of Thermo-Electrical Systems with Pressure and Temperature Distribution Considerations
   Samanta Rodriguez | SROP-ILLINOIS

66. Comparing Different Machine Learning Algorithms to Digitally Stain and Classify Breast Tissue Biopsies
   Disha Patel | SROP-ILLINOIS

67. Visualization of Signaling Pathways in Real Time with Single-Molecule Resolution
   Hannah Bagley | SROP-ILLINOIS

68. Label-free Identification and Analysis of Demyelination in Murine Model Using Spatial Light Interference Microscopy (SLIM)
   Marisabel Colon | SROP-ILLINOIS

69. Modeling and Quantifying Cytokine-induced Transcription Factor Activity in Mammalian Cells
   Jonathan Myers | SROP-ILLINOIS

70. Effects of Dietary Advanced Glycation End Products on Prostate Cancer Proliferation
   Elizabeth Breen | SROP-ILLINOIS

71. Designing an Artificial Metalloprotein that Reversibly Binds Quinone
   Sherese Dawkins | SROP-ILLINOIS

72. Reversible Off-On Near-Infrared Fluorescent Carbon Dot Probes for Hypoxia Detection
   Kurtis Brent | SROP-ILLINOIS

73. Literature Review of Automated Solutions for Learning SQL
   Mohammed Hassan | SPI

74. Implementation and Optimization in Convolution Operators in Convolutional Neural Network
   Prince Ghartey | SROP-ILLINOIS

75. Estimating Human Pose in Realistic Situations
   Victor Gonzalez | SPI

76. Simulating Black Hole Binaries with the Einstein Toolkit
   Bridgette Davey | SROP-ILLINOIS

   Sarah Habib | SROP-ILLINOIS
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| 80            | Synthesis & Interception of Highly Reactive Alkynes                                         | Christian Alvarado-Rodriguez | SROP-UIC |
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| 82            | Modeling the Mechanics and Chemistry of Carbon-based Materials in Reacting Flows           | Victoria Arias | SPI |
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| 84            | Synthesis of Functionalized Polymers                                                        | Joel Roberts | SPI |
| 85            | Stabilizing Carbon-Based Anodes for High-Temperature Applications                           | Micah Thorpe | SROP-ILLINOIS |
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97. Assessing Anxiety-like Behavior in Sprague-Dawley Rats who Administered THC  
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98. Ethnic Racial Identification among Latinx and Black Emerging Adults  
   Stephanie Ramos | SROP-UIC

99. Marijuana and Inflammation  
   Efrain Leal | SROP-UIC

100. Teacher Emotional Competence and Engagement of Social-Emotional Learning among Preschoolers  
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     Mariana Colin | SPI

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*Micropollutant Removal by Electrochemically Mediated Processes*
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*Storm Water Modeling Green Infrastructure to Reduce Prevalence of West Nile Virus*
Matas Lauzadis | SROP-ILLINOIS

**Cancer Detection and Drug Delivery**

**LINCOLN**

*Photonic Crystal-Enhanced Quantum Dot Emission and Its Application of Sensing Cancer-associated Exosomal miRNA*
Oyindamola Teniola | SROP-ILLINOIS

*Reversible Off-On Near-Infrared Fluorescent Carbon Dot Probes for Hypoxia Detection*
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*Successful Resilience among Hispanic High School Dropouts*
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ALMA MATER
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LINCOLN

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Alejandra Valencia Medina | SROP-ILLINOIS

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Claudia Roberts | McNair

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*The Psychological and Physical Impacts of Precarious Work on Workers’ Health*
Journie Raulston | SROP-UIC

*A Racialized Reality: Towards a Utopian Vision of the CTA Blue Line*
Ricardo Zapata | SROP-ILLINOIS

*Engineering Identity Development*
Grisel Lopez-Alvarez | SPI

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*Generation of Low-affinity Antibody Fragments for High-density Super Resolution Imaging of Endogenous T Cell Receptors*
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*Identification of Latent HIV+ Cell Populations in Tissue through Virus Nucleic Acid Detection and Imaging*
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*Using Expansion Microscopy to Visualize Tissue Structure and Virus Interactions*
Joel Rivera Cardona | SPI

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Armando Jose Torres | SPI

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Thank you!

For attending the 2019 Illinois Summer Research Symposium.

Please tell us about your experience.

This short anonymous survey will help us create a better conference for future presenters and attendees.

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Thank you for your feedback.