Roosevelt Student Research & Inquiry Symposium

April 10-14, 2023

PROGRAM

2023 Organizing Committee

Office of Student Research
Chicago College of Performing Arts
Clinical Psychology, Doctoral Program
College of Science, Health, and Pharmacy
Humanities Department
Finance Honors
Honors Program
Library and Instruction
Math and Actuarial Science
McNair Scholars Program
NOYCE Scholars Program
SSS STEM
HSI STEM/STEM Center
Schedule At A Glance
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>The Importance of Vocabulary Specificity</td>
<td>Daniel Berg</td>
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<td>9:30 am</td>
<td>Why the Equal Rights Amendment Should Be Passed in the United States</td>
<td>Margaret Higgins</td>
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<td>10:00 am</td>
<td>DACA and Its Significant Impact on Recipients and the United States</td>
<td>Cecilia Quirarte</td>
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<td>10:30 am</td>
<td>The Playwriting Process</td>
<td>Zach Feuling</td>
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<td>11:00 am</td>
<td>Why Music Education Should be Prioritized in K-12 Education</td>
<td>Bernadette Brockman</td>
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<td>11:30 am</td>
<td>Should the US Congress Call for the Second Constitutional Convention?</td>
<td>Glen Miasnychenko</td>
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<td>12:30–2:00 pm</td>
<td>Faculty-led workshop: What Makes a Productive Research Question?</td>
<td>James Baltrum and Priscilla Perkins</td>
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Tuesday, April 11

2:00-3:00 pm: Without Water: Sustainability 360 & BFA Acting ‘26
Fainman Lounge, Auditorium Building

**Oral Presentations**

- Lydia Groezinger
- Paulina Czupryna
- Christian Caillouet
- Nathan Yew
- Kennedy O'Connor
- Cecilia Quirarte
- Sandi Lwin
- Maria Gamino
- Taylor Trent
- Sophia Calderon
- Jaz Barnhill

**Performance/Installation**

- Ellory Jezuit
- Levi Singer
- Kaley Franzwa
- Carter Chorlton
- Jermaine Jenkins
- Chloe Marquez Jornales
- Tharit Seriruk
- Kendra Hook
- Alexandria Bressette
- Ellie Desmond
- Caroline Dooner

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4:00 – 5:00 pm NOYCE/College of Education Fair Career Fair
Wabash 418

<table>
<thead>
<tr>
<th>Employer</th>
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<tr>
<td>Gary Community School Corporation</td>
<td>Erie Neighborhood House</td>
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<td>Noble Network of Charter Schools</td>
<td>Chicago Public Schools</td>
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<td>By The Hand Club For Kids</td>
<td>Dolton School District 149</td>
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<td>Chicago Tech Academy</td>
<td>Crete-Monee School District 201-U</td>
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<td>Acero Schools - Chicago</td>
<td>Chicago Commons Association</td>
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<td>Arlington Heights School District 25</td>
<td>ExceleRate Tutoring Corps</td>
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<td>Northwest Suburban Special Education</td>
<td>Schaumburg School District 54</td>
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<td>The Frances Xavier Warde School</td>
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Wednesday, April 12

12:30 – 1:30 pm CCPA (MAS 480): On Performance
Auditorium 9th Floor, Lerner Lounge/Marks Hall
Connor Feyen               Hyacinth Percell               Conor Mathenia
Cecelia Ostapeck           Julian Ng               Paul Pickering
Megan Pollon               Kristina Mucha                Hobart Shi,
Sara d'Ippolito Reichert   Sava Velkoff               Cheyenne Halderman
Christin Kim               Elizabeth Kijowski          Zenan Li
Magda Travis               Camden McLean              Leyandra Snyder

12:30 pm Music Education 200: Oral Presentations
Pre-recorded. View in online folder: http://bit.ly/3Kjd1B4
Trauma-Informed Teaching in the Music Classroom
  • Emily Zwijack
How Does Ear Training Early Affect Ear Maturity Later?
  • Aaron Segal
Accommodating and Fostering Success in Students With Hearing Impairments in the Music Classroom
  • Josephine Papa-Shorts
Comprehensive Musicianship through Performance (CMP) and its benefits from the teacher's perspective
  • Nazarii Mykhailenko
Effects of music on students with disabilities
  • Lorensa Klobuchar
Reassuring Democracy in the Music Classroom
  • Jordon Meeks
Digital Audio Workstations in the Music Classroom
  • Lauren Culvers
Musician/Athlete Mindset
  • Krzysztof Solis
Popular Music in Choral Education
  • Riley Brown
Reassessing Assessment Through the Lens of Performance Anxiety
  • Christian Brann
Teacher Shortage in US Public School
  • Meliza Castrejon
Teaching Composition in the General Music Classroom
  • Benjamin Duke
Inclusive Repertoire in High School Choir
  • Isabel Campbell
Assessing Improvisation with Portfolios
  • Nikhil Dasgupta
Music's effect on cognitive development and mental mindfulness
  • Walter Sanchez
Wednesday, April 12 (continued)

2:00-4:00 pm Faculty & Staff Led Workshops
Auditorium 1017
2:00 – 3:00 pm  Community Engaged Teaching
   *Michael Blancato, Vince Francone, and Mick McMahon*

3:00 pm-3:30 pm: PowerNotes Workshop
   *Barb Anderson*

3:00- 6:00 pm Finance Honors Thesis Presentations
Wabash 418
3:00 pm  Sovereign Ownership and Governance Practices of Emerging Market Companies
   *Gerardo Flores*
4:00 pm  Evaluating the Relationship Between Sovereign Ownership and Governance Practice in Emerging Market (EM) Companies
   *Ben Zalapi*
4:30 pm  Emerging Markets: The Relationship Between Corruption and Governance Practices
   *Lizbeth Tlatenchi*
5:00 pm  The Impact of Macroeconomic Events in Cryptocurrency Returns
   *Jared Tjelmeland*
5:30 pm  Impact of Governmental Regulatory Changes in China on the Global Cryptocurrency Markets
   *Alinah Harron*
6:00 pm  MSCARCH Modeling and Volatility Dynamics of Cryptocurrencies
   *Kadir Caglar*
6:30 pm  Momentum and Cryptocurrencies
   *Lukas Palma*

4:30 – 5:30 pm Neuropsychology Internship Workshop
   *Wabash 1111*
   *Jessica Yang and Alexa Halliburton*

6:00 – 7:30 pm Real Estate Development Course Presentation,

6:00 pm  The Boatyard Redevelopment Project
   *Nick Ross, Patrick Sinwelski, Shawn Gregoire, and Nicholas Paviet*
Thursday, April 13

9:00am- 3:00 pm McNair Scholars Program Presentations
Wabash 317

9:00- 11:30 am Oral Presentations I

9:00 am Sustainability Planning Team
Kayla Nelson, Kiera Carpenter, and Sophia Gallo

10:00 am How Societal Factors Negatively Impact Black Students in Academic Environments
Kayla Nelson

10:40 am The Blockchain Medley: A Revolution to the Economics of Classical Music
Helder Perez

11:00 am What Makes A Good Mathematical Proof
Jasmine Gillis

11:45 am – 1:45 pm Poster Presentations

Problem Solving Courts – Alternatives to Incarceration
Taylor Bradley

Mesothelial Cell HIF Activity Regulates Ovarian Cancer Adhesion
Esmeralda Delgado

Understanding the Relationship Between Fat Talk and Feminine Norms
Jiselle Janko

Ethnic Identity, Coping, and Depression After Experiencing Discrimination
Adaly Navarro

Queen of Manipulation: Elizabeth I of England
Ramina Nikola

Work-Related Political Behaviors
Judy Mcdowell

William Goldsborough, Alexander Keech, and the Maryland Agricultural College
Mia Moore

How Can Cloning Be a Solution to Save Endangered Species?
Marylyn Salas

What Are the Effects of Teaching Methods on the Success of College Students Taking Calculus?
Rita Boateng

Redesigning Reading
Jianny Jenkins;

How Does Banning Books Affect Young Adolescents?
Cesar Gonzalez;

1:45pm -3:15 pm Oral Presentations II

1:45pm Barriers for Women in STEM and the C-Suite
Prudence Barajas

2:05 pm The Effects of Post Traumatic-Stress Disorder and Substance Abuse: Child and Adolescent Integration into Society
Angie Delgado

2:25 pm Synthesis 2-methylimidazo[1,2-a] pyrimidine-3 carboxamide: a possible anti-TB agent
Isabela Tatem

2:45 pm Marine Plankton Grazing Response to Supplementary Vitamin Sources
Isaac Sosa
Thursday, April 13 (continued)

12:30 – 1:30 pm Chicago College of Performing Arts: Graduate Research Presentations
Auditorium 9th Floor: Lerner Lounge
12:30 Vysotsky and DDT’s Underground Resistance: Towards a Russian Musical Aesthetic of the Unsaid
   Tanya Laundau
1:00 Poulenc on Poulenc
   Lillian Vellom

2:00 - 6:00 pm: Math & Actuarial Science Program
Auditorium 524 & Wabash 418

2:00 – 3:30 pm: Math Student Presentations
Auditorium 524
2:00 pm A Study of The People’s Classifications on MicroPlants: Research Talk
   Rita Boateng, Eric Damerow, Elaine Gaberik, Savannah Green, Nathaniel Linares,
   Hassan Mahmood, Maria Palacios, Joseph Pascual, Lizbeth Tlatenchi, and Sean Wong

3:00 pm Electric Vehicle’s Price Analysis
   Fred Coffey

4:00-6:00 pm: Actuarial Science Career & Networking Fair
Wabash 418

4:00 – 5:00 pm Invited Speaker, Actuarial Science
   Julia Lewis, ’19
   “The Importance of People-Skills”

5:00 – 6:00 pm Actuarial Careers Networking Fair
9:00 am- 3:00 pm Honors Thesis Presentations
Wabash 418
9:25- 10:15: Research/Practice Panel
Identifying Neuroplasticity in Hearing Loss and its Effects in Musicians
Ainhoa Ortiz Noriega
The Modern Concert Experience: Where Did It All Go Wrong? And How Are We Fixing It?
Delaney Spielman
Symmetrical Inversion: Equal Growth in Teaching, Practicing, and Self-Discovery on the Piano
Rupa Elizabeth Sprecher

10:20-11:00 am: Research/Impact Panel
Advanced Air Mobility: The Direction of Autonomous Flight and the History of Urban Air Mobility
Nick Agliata
The Blockchain Medley: A Revolution to the Economics of Classical Music
Helder Perez

12:30-1:15 pm Research/Situation Panel
Day and Night within Chicago’s Neighborhoods
Edith Avila
Impact of the Supreme Court’s Overturning of Roe V. Wade on Unwanted Pregnancies: Opinions About Abortion, Health Care Freedom, and Political Involvement
Maya Wenc
Mothering Behind Bars – The Unintended Victims
Taylor Bradley

1:20-1:50 pm Research/Decisions Panel
In the Eye of the Beholder: How Marketers Secretly Seduced Gay Men
Aidan McGinty
Beyond Redistribution: The Limits of Contemporary Reparations
Onteya Zachary

2:00-2:45 pm Research/Outcomes Panel
Making a Big Deal out of the Small Things: An Analysis of the Current Antibiotic Crisis
Kennedy Gale
To Plead or Not to Plead? A Study of Plea Bargaining Mechanics and Outcomes
Lexi Kurzawinski
Political Hypocrisy: Identifying Insincerity of a Political Scandal During the 2020 United States Presidential Election and the Influence on Voter Attitudes
Leah Stein

2:50-3:30 pm Research/Situation Panel
Epigenetic Effects of Toxins on Developing Fetuses
Grace Hahn
How Tinted is Too Tinted: The Emerging Tinting Industry and Effects on Driver Safety
Maria Palacios
Friday, April 14 (continued)

10:00 am – 3:00 pm: College of Sciences, Health and Pharmacy; Office of Student Research; & the Office of the Provost
Ida B. Wells, Fainman Lounge & the Sullivan Room

10:00 – 11:00 am Plenary Speaker, Ida B Wells Room:
Dr. LaMar Hasbrouck, COO, Cook County Public Health
“What COVID Taught Us About Science, People, and Public Health”

11:00 am – 1:00 pm Graduate School Fair
Fainman Lounge North
Schools Attending: Loyola University, UIC Medical School, Northeastern Illinois University (NEIU);
Roosevelt University: MBA, MPA, Computer Science, MABS/Biotechnology and Psychology programs

11:00 am – 12:30 pm Poster Presentations:
Fainman Lounge South

Penta-fluorination of the Phe-Phe Motif to Overcome Homochirality in Hierarchical Self-assembly of Hydrogels
Gregory Gillespie

RNA-Binding Chaperone Hfq as a Novel Target for Antibacterial Drug Development
Massara Alessa, Izabela Rozborska (Olsen)

Gini in the Windy City
Tania Simmons, Sosa, Issac; Haq, Mariyam; Ceron, Leonardo; Anderson, Madalyn; Hahn, Grace.

Algebra in Motion: How to measure time with a crystal
Joseph Pascual

Algebra and games
Eric Damerow

The curious case of the quintic equation
Jasmine Gillis

Quaternions and Motion graphics
Nathan Huerta

The algebra of music
Joseph Aguilar

Poster on 3D printing
Amber Misiowiec, Armela Zeneli (Voss)

The Impact of Exposure to Heterosexist Bias on the Psychological Distress of Polish LGBTQ+ Individuals
Athar, M. Saad; Dudek, Joanna; Topcezewski, Jan; Skinta, Matthew

Intimate Social Connection In Schizophrenia: A Novel Pathway to Recovery
Alex Broekhuijse

Relationships Between Alternative Visual Methods To Quantify Tree Reproduction
Riley Adams, Teodora Stoycheva, Sofia Rivera, Jalene LaMontagne

Comparing Lactase Activity in two popular lactase supplements
Freny Brahmakshatriya

Analysis of Lactase Activity in Lactase Supplements
Sarah Cianca

A Role for PCMT in Drosophila Melanogaster Infection with Serratia Marcescens
Jessica Ahon Sanchez (Allen)

Investigation of MMR Vaccination Rates and its Relationship with Measles, Mumps, and Rubella Outbreaks in California
Brianna Negrete McGinley (Sakharkar)
Friday, April 14 (continued)

12:30 – 3:00 pm Graduate Thesis & Undergraduate Oral Presentations, College of Science, Health and Pharmacy
Ida B Wells Room, Auditorium Building (Second Floor)

1:30 pm  Recent Advances in LpxC Inhibitor Design: Efforts Post ACHN-975 and RC-01 Clinical Trials
          Bijal Patel and Anna Tanzif

1:00 pm  Phe-Phe Dipeptide Synthesis
          Gregory Gillespie

2:00 pm  Synthesis of Pyrazolo[5,1-b][1,3]thiazole-6 methyl-7-carboxamide derivatives as a Potential Anti-Tubercular Agent
          Riley Adams and Nicole Nilsson

2:15 pm  Synthesis 2-methylimidazo[1,2-a] pyrimidine-3-carboxamide: a possible anti-TB agent
          Sarah Cianca and Isabela Tatem

2:30 pm  Synthesis of Novel Indole-3-carboxamide derivatives and its potential pharmaceutical application
          Tania Guarneros Martinez

1:00 – 2:30 pm, CSHP Course Presentations:
Sullivan Room (Auditorium Building, 2nd floor)

1:00 pm  Tiny Earth: An Attempt to Discover New Antibiotics
          Selena Bush BIOL 360/460 Microbiology

1:30 pm  Measuring Immune Responses to PAMPs in Cultured Cells
          Naif Salem, Monse Morales and Osbaldo Gonzalez BIOL 367/467 Immunology

2:00 pm  High-Throughput Screening to Identify Novel Therapeutic Strategies for Ovarian Cancer
          Danielle Robinette and Gerardo Rodriguez

2:00 – 3:00 pm Chicago College of Performing Arts, Keynote
Blake-Anthony Johnson, Executive Director, Chicago Sinfonietta
“Living a Life of Impact: Creating Your Own Opportunities at the intersection of the past, present, and future.”