

Roosevelt Student Research & Inquiry Symposium

April 8-12, 2024

PROGRAM

2024 Organizing Committee

Office of Student Research
Chicago College of Performing Arts
Clinical Psychology, Doctoral Program
College of Science, Health, and Pharmacy
Humanities Department
Law, Society & Sustainability Department
College of Humanities, Education and Social
Sciences Honors Program
Library and Instruction
Math and Actuarial Science
McNair Scholars Program
HSI STEM/STEM Center

Schedule At A Glance

Monday, April 8:	Humanities & English
Tuesday, April 9:	Math & Data Science, Chicago College of Performing Arts
Wednesday, April 10:	College of Humanities, Education & Social Sciences; Clinical Psychology Doctoral Program
Thursday, April 11:	Math & Computer Science; Actuarial Science; Sustainability Studies; Academic Affairs
Friday, April 12:	Honors Program; McNair Scholar Program; & College of Science, Health & Pharmacy

	Monday	Tuesday	Wednesday	Thursday	Thursday	Friday	Friday
9-10:00						Honors Thesis Panels	
10-11:00	Philosophy Course Presentations					McNair Scholar Presentations	CSHP Presentations
11-12:00	English Research Showcase	Math/Comp Science		Math/Comp Science		Honors Thesis Panels	CSHP Presentations
12-1:00	Break/Lunch	MM student research: women composers archive;				LUNCH and Faculty panel discussion	
1:00-2:00	12:45: History Course Presentations		CHESS Career Fair			Honors Thesis Panels	Unified poster session
2-3:00	English Faculty Panel	Math/Comp Science			Math/Comp Science		CSHP Presentations
3-4:00				SUST 395 presentations	Math/Comp Science		
4-5:00			PsyD Student Presentations	Academic Affairs/DEI	Actuarial Appreciation & Networking		
5-6:00							

Monday, April 8
Humanities & English

10:00 am – 4:00 pm Humanities & English 102 Composition Showcase
Wabash 418 // Zoom link: <https://roosevelt.zoom.us/j/97322744054>

10:00 am	Course, Philosophy & AI, Zarko Minkov
	"when God split the Atom" <i>Conlan Salgado</i> AI and Labor <i>Grace Hernandez</i>
11:00 am	Course English 102, Mike Blancato
	Will The Apocalypse Affect My Credit Score? Why It's Easier to Imagine The End of The World than The End of Capitalism <i>Stella Murray</i> Literacy Narratives of Multilingual College Student <i>Indira Gutierrez Marrero</i> Mentoring ENG 102 Students: Learning to Teach through Experience <i>Lydia Groezinger</i>
12:45 pm	Course, Approaching the Holocaust through Biographical Research, Mike Jocks (History)
	Ruth Cohen: Holocaust Victim and Survivor <i>Zoe Hutchinson</i> Rokhl Auerbakh: A Warsaw Ghetto Hero <i>Angel Nunez</i>
2:00 pm	Faculty-led workshop: Citing and Synthesizing Sources in Academic Writing <i>Priscilla Perkins & Mick McMahan, English</i>

Tuesday, April 9

Math and Data Science, Chicago College of Performing Arts

11:00 am- 2:30 pm Math & Computer Science, Live Classroom Sessions

AUD 410, Concurrent Zoom Broadcast; <https://roosevelt.zoom.us/j/94683822238>

11:00 am – 12:15 PM MATH: Number Theory and Its Applications: A Number of Interesting Talks about Numbers!

Steve Cohen

Legendre's Theorem

Bridget Covarrubias

History of Cryptography

Nathaniel Linares

History of the Goldbach Conjecture

Phil Wahl

The Fibonacci Sequence and examples in life

Nolan Boetcher

Paul Erdos, his life and conjecture on primes

Dea Qendro

The Ulam Spiral

Riley Herbst

Highly Composite Numbers and Euler's Totient Function

Tony Eisel

Fermat's Last Theorem and the case $n=3$

Viktoria Marysheva

2:00-2:30 pm, MATH, Melanie Pivarski

Python-Powered Peak Discovery: Unveiling Moss's Pollution-Sensing Potential

Phillipa Asare-Ababio, Eric Damerow, Jasmine Gillis, Kavya Sri Kasarla, Naveen Kunchapu

12:00-1:00 pm Chicago College of Performing Arts

Lerner Lounge, Auditorium 9th Floor

Unsung: Unearthing a Female Canon

Magdalena Travis

Wednesday, April 10

College of Humanities, Education & Social Sciences; Clinical Psychology Doctoral Program

1:00 pm – 4:00 pm College of Humanities, Education & Social Sciences Career Fair

Wabash 418

CHES Career Fair

4:40-5:45 pm Clinical Psychology Doctoral Student Presentations

Wabash 1017

Faculty: Jessica Paxton

Relationships between age, error scores, and psychological symptoms in youth

Jessica Paxton

Use of Fitness Trackers in the Eating Disorder Community

Emily Maniaci

Race as a Social Determinant of Health: Moderating the Long-Term Effects of Alzheimer's Disease and Obstructive Sleep Apnea

Jessica Lanctot

CREST and Systemic Scleroderma

Ariel Zhu

Exploring the Relationship Between Migraine Age of Onset and Quality of Life

The utilization of college resources by students with ADHD

Alexis Ortiz

Thursday, April 11

Math & Computer Science; Sustainability Studies; Academic Affairs

11:00 am-12: 15 pm Math, Live Classroom Sessions

AUD 410, Concurrent Zoom Broadcast; <https://roosevelt.zoom.us/j/94683822238>

MATH: Number Theory and Its Applications: A Number of Interesting Talks about Numbers!
Steve Cohen

The Euclidean Algorithm and its Applications
Bhanuprasad Nalla

Twin Prime Conjecture
Phillipa Asare-Ababio

Pythagorean Triples
Tania Simmons

Group Theory, Number theory, & Gauss
Joe Aguilar

The Euclidean Algorithm and Diophantine Equations
Aracely Martinez

Fermat's Last Theorem and the case $n=3$
Viktoria Marysheva

The Nexus of Number Theory and Cryptography
Soymaya Ayyagari

Divisibility tests in various number bases
Quiana Brown

Jingrun Chen and his work on the Goldbach's Conjecture
Jenavieve Estrada

The Chinese Remainder Theorem
Cristian Lopez

Congruences and their applications
Pranay Kumar Maggidi

2:00 pm-3:45 pm Math & Computer Science, Live Classroom Sessions

Auditorium 524 & via Zoom Broadcast: <https://roosevelt.zoom.us/j/97302921781>

2:00 – 3:00 MATH, Melanie Pivarski

MicroPlant: Unfolding MicroPlant Mysteries: Public vs Expert

Essohanamm Akarinassim, Cristian Lopez, Dea Qendro, Aaron Rodriguez, Tania Simmons

Neural Net: Let the AI do classification

Glen Miasnychenko, Phillip Waul

3:15pm MATH/COMPUTER SCIENCE, Alex Wolpert, Evgeny Dansin

Experiments in Encoders with AI

Mariel Chua, Collin Fox

Thursday, April 11, continued

3:00 – 4:00 pm Law, Society & Sustainability Department
WB 1015 & via Zoom <https://roosevelt.zoom.us/j/97050255073>

<p>SUST 395 Sustainability Internship (Mike Bryson, SUST faculty advisor) From the Field Museum to the Southeast Side: Sustainability Internship Reports on Biodiversity Research and Environmental Activism <i>Daniel Dodinval</i> <i>Kristina Gillespie</i> <i>Kenny Koster</i></p>

4:00-5:20 pm Actuarial Appreciation & Networking
Wabash 1315
Alumni Speaker: Minh Nguyen

4:30-6:00 pm Celebration of Academic Excellence: Living Our Mission
Ida B. Wells Lounge

Provost's Office, Marjorie Jolles	
4:30 PM	Light Refreshments
4:45 – 4:50 pm	Welcome remarks Mike Maly & Laura Nussbaum-Barberena
4:50	Introduction: Office of DEI & DEI Student Research Panel Michael Ford, Charmaine Connors & Heather Dalmage
4:55	Students Building DEI Through Critical Engagement & the Research Process Aubry Wood, Clinical Psychology Program (PsyD) Samayra Toribio, School Counseling Program (MA) Cyrus Sandlin, Political Science (BA), Mansfield FACE Fellow, and 2023 DEI office intern Mason Peebles, Business (BA)
5:30 PM	Faculty Awards Presentation Marjorie Jolles

Friday, April 12

Honors Program; McNair Scholar Program; & College of Science, Health & Pharmacy

9:00 am- 3:00 pm Honors Thesis & McNair Scholar Presentations

Sullivan Room

9:00 am Honors Panel 1: A Focus on Experience & Action

Breaking Language Barriers: Enhancing Speech Pathology Practices in Multilingual Settings

Salma Mardi, she/her

The Mother-Daughter Memoir: Exploring Daughterhood Through Memory Writing

Lydia Groezinger, she/her

Creativity as an Outlet: an Analysis of Art Therapy in Prisons

Oliva DeRubeis, she/her

10:00 am McNair 2nd Year Cohort Presentations

Replication and Personalization of Improving Time-Series Momentum Strategies

Corties Draper

Induction and Role of Protein L-Isoaspartyl Methyltransferase in Drosophila melanogaster after Injury and Infection

Maricarmen Carreto

Controlled sol-gel synthesis of non-stoichiometric mixed metal oxide electrocatalysts for water splitting

Isabela Tatem

11:00 am Honors Panel 2: How Do We Tell Stories?

Look Alive

Jiaonny Jenkins, he/they

Conquering the Mental Health Struggle Tormenting Immigrant Latino Youth

Ashley Cabral Gomez, she/her

Female Journalist Stories: The Fight for Equality

Alexandra Samargia-Grivette, she/her

1:00 pm Honors Panel 3: In the News

Critique of U.S. Foreign Policy Flaws Amidst Declining Hegemony: A Study on Their Impact on the Ukraine Invasion

Alexander Kelly, he/him

Detrimental Misinformation: A Failed Response to the COVID-19 Pandemic

Paulina Czupryna she/her

10:00 am – 3:00 pm College of Science, Health & Pharmacy

Auditorium 232 & Ida B Wells

10:00 am AUD 232 Course, PHAR 613, Maggie Olson

TBD

Juan Zavala

10:20 am AUD 232 Course, PHAR 533, Peter Hart

Modulation of chemoresistance of ovarian cancer

Haya Albanna

The effects of monomeric C-reactive protein on high grade serous ovarian cancer

Alesia Gjoni

11:00 am AUD 232 Course: CHEM 392, Oluseye K. Onajole

TBD

Andela Savic and Lex Morales

TBD

Richard Perez and Sabaa Alshakargi

Friday, April 12 (continued)

10:00 am – 3:00 pm College of Science, Health & Pharmacy (continued)

Auditorium 232 & Ida B Wells

12:00 pm Ida B Wells Pharmacy Faculty Panel (Ida B Wells)

Psychedelic Drugs: Medicine or Menace? A Pharmacist Perspective

Mary Hornick, Laura Licari, Bedrija Nikocecic, Dan Majerczyk, Ashley Stefanski, Dally Senesombath (P3), Riley Geoghegan (P2)

2:00 pm AUD 232 Faculty Mentor: Michael Ruth

Securing Satellite Communications: A Comprehensive Study of Security Gaps and Cyber Solutions

Rachel Devine

1:00-2:00 pm Poster Session: College of Sciences, Health and Pharmacy & McNair

Fainman Lounge

Course Biology 392, Norbert Cordeiro

Camera traps reveal changes in Kenyan forest birds

Alex Chavez

TBD

Bridget Covarrubias

Course Biology 492, Robert Seiser

Evaluating CRISPR teaching lab kits

Jhinal Patel, Prachi Patel, Hammad Shuaib

Gene Editing: Emerging Trends in Biotechnology

Racquel Kelley

Course BCHM 456 & 495, Cordelia Chong

Using Qualitative and Quantitative Assays to Compare Total Protein Concentrations in Milk Samples

Disha Trivedi

Purification of Recombinant Green Fluorescence Protein (GFP)

Harnish Shah

Purification and Characterization of Alpha Lactalbumin

Kamalpreet Kaur

Preliminary analysis of streptomycin resistance in CRISPR transformed *E.coli*

Andela Savic

Exploring Protein Sequence-Structure Relationship using Bioinformatics

Neha Shoor

Isolation and Quantification of Casein and Whey Proteins in Milk Samples

Sai Krishna Thota

Course CHEM 392, Abdelqader Jamhawi

Synthesis and luminescence of donor-acceptor triphenylmethyl radicals

Andela Savic

Faculty Mentor: Jessica Allen

Induction of PCMT after Paraquat exposure

Jayasurya Ruthala

Friday, April 12 (continued)

Poster Session, continued

Course: Math 232, Sungwon Ahn

TBD

Riley Adams and Kenneth Koster

TBD

Carlos Leon and Reuben Fitzer

Household Income Distribution in Blue Island, IL

Emily Acosta and Bianca Reed

TBD

Nolan Boettcher

USA income vs. Japan income

Reyna zaru and Leonardo Ceron

Course Math , Number Theory, Steve Cohen

TBD

Dea Qendro, Tony Eisel, Tania Simmons, Joe Aguilar

TBD

Tony Eisel, Nolan Boetcher, Viktoria Marysheva

Course: PHAR 613, Maggie Olson

TBD

Griffin Hall & Brandi O'Connor

TBD

Muhammad Arshad & Eneo Karamani

McNair Scholar Program

TBD

Gianna Fajardo

TBD

Karime Sepulveda

The Impact and Legality of HR Hiring/Firing Practices Towards Marginalized Communities

Angelina Lambert

TBD

Rachel Adu

The Diversity of Large Ctenacanthiformes Sharks from the U.S. State of Illinois During the Carboniferous

Joseph Maltese

TBD

Sabrina Gonzalez

TBD

Nina Rodriguez

Ovarian Psychos: How is a Bike Club Going to Change Anything?

Karolina Puente

Sun Screen and its Effects on Coral Biodiversity

Clifton Chaplin

TBD

Keyla Estrada

BPA and its Connection to Genetic Disruption

Isabel Berrios

