

ROOSEVELT STUDENT RESEARCH & INQUIRY SYMPOSIUM



APRIL 18TH - APRIL 22ND, 2022

4th annual Roosevelt Student Research & Inquiry Symposium

RSRIS is co-sponsored by the Office of Student Research; Mathematics, Economics and Actuarial Science; Psychology; Chicago College of Performing Arts; and the College of Science, Health and Pharmacy.

RSRIS 2022 | LIVE SESSIONS

Monday, April 18th



WELCOMING REMARKS: PROVOST ANDRAE MARAK

<https://roosevelt.zoom.us/j/98949435911>

10:00 AM

Join Provost Andrae Marak and the RSRIS organizing committee for welcoming remarks to start off our weeklong celebration of RU students research and inquiry activities. We look forward to seeing you there!!



PROTEIN PALS: METHOD DEVELOPMENT FOR PURIFICATION OF BASIL RECOMBINANT PROTEINS

BCHM 392/492 INDEPENDENT RESEARCH

1:00 PM <https://roosevelt.zoom.us/j/98087236575>

Anshjeyla Gunter

Alyssa Oetjens

Kennedy Gale

Tuesday, April 19th



ADVANCING CAMPUS SUSTAINABILITY @RU (DAY 1): SUST 250 THE SUSTAINABILITY UNIVERSITY

<https://roosevelt.zoom.us/j/93785041642> & WB 616

11:00 AM

11:00 am - *Reimplementation of Reusable Dining Ware in the WB Cafeteria*

Sophia Gallo, Gabriel Gonzalez, Brandyn Li, Christian Okoroafor-Isaac & Raine Potts

11:25 am *Integrating Sustainability into Student Orientation*

Adaly Navarro, Emma Nichols, Gerardo Nicolas, Gabriela Szeff & Paegge Turner



KEYNOTE: JESSICA ALLEN, ASST. PROFESSOR OF BIOLOGY THE IMPORTANCE OF TOLERANCE: TOLERATING FAILURE IN THE RESEARCH LAB WHILE TRYING TO UNDERSTAND HOW WE TOLERATE INFECTIONS

4:00 PM

<https://roosevelt.zoom.us/j/97162272568>

All living organisms have a limited amount of energy and resources they can use to overcome the myriad of challenges thrown at them - from infectious pathogens to seemingly impossible academic endeavors. As an immunologist, I study how organisms manage to mount costly immune responses against pathogens while still having enough resources left to repair the damage done and maintain all the other biological processes required to survive. In this talk, I will share not only what I have learned about the importance of sometimes tolerating rather than all-out fighting infections *and* what pursuing a career in research has taught me about tolerating the frustrations, challenges, and often painfully slow pace of discovery.

RSRIS 2022 | LIVE SESSIONS

Wednesday, April 20th



CONVERSATION: PSYD CLINICAL TRAINING SPECIALIZATIONS AND EXPERIENCES CLINICAL PSYCHOLOGY DOCTORAL PROGRAM

<https://roosevelt.zoom.us/j/97667114473>

4:00 PM

Roosevelt University Association of Neuropsychology Students and Trainees conversation about PsyD clinical training specializations and experiences.

Tianna Vozar Community mental health and forensic assessment,

Jessica Yang Adult severe mental illness & neuropsychological assessment

Max Obolsky Neuropsychological assessment with medically complex clients.



SSS STEM SPEAKER: INTERSECTING IDENTITIES IN STEM RESEARCH: BUILDING YOUR PATH AND OVERCOMING OBSTACLES

ESTEFANY RIOS GUZMAN, PHD STUDENT, NORTHWESTERN U

7:00 PM

<https://roosevelt.zoom.us/j/95182832679>

Estefany Rios Guzman is currently a 2nd year MPH/PhD graduate student at Northwestern University Feinberg School of Medicine. Estefany was previously a member of the TRIO Student Support Services (SSS) and the McNair Scholars Program.

Thursday, April 21st



INDEPENDENT PROJECTS: PROTEIN ISOLATION AND CHARACTERIZATION

BCHM 356/456 BIOCHEMISTRY & BIOTECHNOLOGY LAB

<https://roosevelt.zoom.us/j/92095818748>

10:30 AM

Presentation 1: **Julia Schrock, Lizeth Ruiz, Racquel Kelley**

Presentation 2: **Barry Livingston, Heydi Meza, Celina Hung, Rudmine Balentina**



ADVANCING CAMPUS SUSTAINABILITY @RU (DAY 2): SUST 250 THE SUSTAINABILITY UNIVERSITY

<https://roosevelt.zoom.us/j/93785041642> or WB 616

11:00 AM

Greening RU's Athletics Department

Katrina Smith, Samantha Norman, and William Cavanaugh

Strengthening RU's Sustainability Leadership

Jyle Manalo, Thomas Monken, Karime Sepulveda, and Alyssa Spleha

Recycling and Composting in the WB Cafeteria: A Waste Audit

Giovanni Chapel, Elijah Griggs, Peter Lawrence, and Marcus Pendleton

RSRIS 2022 | LIVE SESSIONS

Thursday, April 21st, continued



2:30 PM

MICROPLANT MYSTERIES MATH 390/ACSC 390/MATH 491

<https://roosevelt.zoom.us/j/97394255829>

Jasmine Gillis, Henry Kivarkis, Ian Lyu, Mariola Mira, Minh Nguyen, Will Ricthie, Lauren Wszolek



3:30 PM

ADVENTURES IN NUMBER THEORY MATH 318/418

<https://roosevelt.zoom.us/j/98797950647>

The Chinese Remainder Theorem
Ian Lyu

Pythagoras: Numbers and Music
Leilah Hernandez

Mersenne Numbers
Maria de la O (Mariola) Mira Lopez

Fibonacci Numbers
Jasmine Gills

Dirichlet's Theorem About Primes in Arithmetic Progressions
Kaltra Demiri

Diophantine Equations of Final Scores in Football
Eric Damerow

Cryptography and the Difficulty of Prime Generation
Lauren Wszolek

Primality Tests and Probable Primes
Michi Kirihara

Friday, April 22nd



1:00 PM

ZINES & THE HISTORY OF PUBLIC HOUSING! POLICY RESEARCH COLLABORATIVE FELLOWS

<https://roosevelt.zoom.us/j/91924076638>

Sophia Gallo, Juanairis Castañeda, Troy Gaston, Alexyss Wofferd, and Jack Werner



2:00 PM

VITAMIN PRECURSORS AS CUES FOR PROTIST GRAZING IN THE OCEAN

<https://roosevelt.zoom.us/j/92592475525>

Audrey Kaminski-Morris will present her independent research investigating the effects of chemical cues on protist grazing.

RSRIS 2022 | LIVE SESSIONS

Friday, April 22nd , continued

HONORS THESIS DEFENSES

Join the Honors Program in celebrating the inquiry and scholarship of their graduating seniors.

In-person in the Sullivan Room

9:00 am -1:30 pm

9:00 AM

Welcome & Introductions

9:15 AM We Have an Audience

Farah Abdalla (BMA), "Marketing for Young Singers" (Marian Azzaro)

Grace Koeppen (IMC), "What's Their Goal?: The Lessons Marketing Teaches Us about Womanhood" (Sue Reddel)

Raneen El-Barbarawi (INTS & JOUR), "Media Coverage in the 2021 Sheikh Jarrah Incident: Portrayals of Palestinians in American Media Outlets Versus International Media Outlets" (David Faris)

10:15 AM That's Just Geography.

Azalia Resendiz (SOC), "Students and Schooling: An Analysis of ESL, Teachers, and Location" (Stephanie Farmer)

Kerry Thomas (BMA), "Negotiating Americanism, Identity, and the Southern Literary Canon in the Operas of Carlisle Floyd" (Thomas Kernan)

Sariah Bolden (HIST & POS), "Lynchings during the early 1900's in the United States" (Sandra Frink)

11:30 AM Not Stranger Than Fiction

Rachel Wallis (BMA), "Rebecca's Reprise: Musical Changes in Rachel Bloom's Crazy Ex-Girlfriend" (Rebecca Schorsch)

Sunyata Courie (PHIL), "Fate Amenable to Change: A Comparative Philosophical Analysis of Utopia, Dystopia, and Artificial Intelligence in Contemporary Science Fiction" (Stuart Warner)

12: 25 AM By Design

Amy Holm (HIST), "The Rise of Sewers: How Germ Theory Influenced Sanitation in the Modern Era" (Celeste Chamberland)

An Phan (BMA), "Designing Safe Spaces in Music" (Dan Healy)

1: 15 pm Closing

POSTER PRESENTATIONS

August 18th - August 22nd

JULIANA BERLIN

Clinical Psychology, Doctor of Psychology (PsyD)
Family and Women's Body Image

CHRISSEY CHRISTIAN

Biology, MS
Participation and Motivation in Community Science

RANEEN EL-BARBARAWI

International Studies, BA & Journalism and Media Studies, BA
Analysis of Landmark Cases on Police Misconduct in Terry v. Ohio, 392 U.S. 1, (1968) and Mapp v. Ohio, 367 U.S. 643, (1961)

CLAIRE FRIEDHOFF, ALLISON NASH, RAQUEL ROSENBERG & JESSICA PAXTON, PHD

Clinical Psychology, Doctor of Psychology (PsyD)
The Relationship Between Parent-reported Inattention Symptoms and Intra-individual Variability in Neuropsychological Performance in Male Children and Adolescents

KENNEDY GALE, LIZETHE RUIZ & CORDELIA CHONG, PHD

Biology, BS
*Cloning the Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH) Gene in *Oenothera macrocarpa* (Ozark Primrose) and *Callirhoe involucrata* (Purple Poppy Mallow)*

MIA MOORE

Sociology, Social Justice Studies, & History, BA
Finding Jane: An Experiential Learning Research Project

AYN DOWNEY

Criminal Justice, BA
The Autarchy fluctuating involved in the paradox of human trafficking intersection with illegal immigration and trans figuration of public policies.

ORAL & PERFORMANCE STUDIES PRESENTATIONS

August 18th - August 22nd

MIRIAM CALDERON

Music Education, BM & Classical Guitar, BM
Sacred Music

JESSICA NUNN

International Studies, BA
Education Inequality

LAIA BORRELL POZO

Music Education, BM
Music Making and foster care

SEGUN OLUGBODE

MS Biotechnology & Chemical Sci
Tissue Regeneration of Dental Pulp

JOHN SIKORSKI

Music Education, BM
Competition in the Music Program

CHANDLER GIAMPETRO

Integrated Marketing Communications, BA
Marketing Efforts in Today's Baseball

GRACE LUGTU

MS Biotechnology & Chemical Sci
Meteorite Delivery of Prebiotic Molecules

JESUS CHAIREZ

Music Education and Jazz Performance, BM
Music Correlation with Academic Achievement

LAUREN CULVER

Music Education, BM
Teaching Composition in the Instrumental Music Classroom

SALVATORE LA SPINA

Music Education, BM
How Music Can Be Used to Reduce Stress & Anxiety for Students?

MYKAEL BAIG

How Quantum Computing will impact cybersecurity

KENNEDY GALE

Biology, BS
*Does Sex or Geography Structure Populations of *Dicrurus Adsimilis* Complex on the African Continent*

CHANDLER SULLIVAN

Music Education, BM
Is Music Education Affecting Student Academic Performance?

DELANEY SPIELMAN

The Conductor, Patron, and Plan for a Different Concert Culture

AARON SEGAL

Music Education, BM
What are the benefits of a school music program for students beyond the rehearsal room?

DUWUANA BUICE

Early Childhood Education, BAE
The revolving Door in Education: Cooperative Teachers Skills and its relation to Early Childhood Teacher's Drop Out.

EMILY ZWIJACK

Music Education, BM & Violin, Viola, Cello, Double Bass and Harp, BM
ADHD and ADD in the Music Classroom: How can the music educator identify the characteristics and accommodate for students in need?