48th Undergraduate Research Conference
May 6, 2022

Poster Winners

GROUP 1
Ilan Pesselev, Chemistry
Kareem Mohamed, Chemistry
Roni Faitelson, Biology
Development of a Cas9 Mediated Approach for Inducing Chromosome Specific Aneuploidy in Tumor Cells Enables a Comparative Phenotypic Study of an Isogenic Aneuploid and Euploid Cell Line

GROUP 2
Miles Tran, Biology
The Long and Winding Reads: Application of Long-Read Nanopore Sequencing Towards the Characterization of Epigenetic Aberrations in the “Dark Genome” of Breast Cancer Metastasis

GROUP 3
JJ Adler, Chemistry
Design, Synthesis, and Testing of Two-Component Organocatalysts for Peptide Bond Synthesis

GROUP 4
Caroline Yu, Biology
Intronic Noncoding Essential Regions (NERs) in BCL2L1 Modulate Anti-Apoptotic Gene Expression

GROUP 5
Jesse Howard, Biochemistry
Biologically Mapping Poly-Ubiquitinated Substrate Transporter (POST)

GROUP 6
Ramia Rahman, Neural Science
Cerebellar Cortical AC Stimulation Alters Purkinje Cell Activity
GROUP 7
Ayat Agha, Psychology
The Involvement of Stress-Related Circuitry in Normal and Disordered Maternal Behavior

GROUP 8
Ashley Feng, Neural Science
Mutual Information and Efficient Coding

GROUP 9
Sean Nordquist, Computer Science, Economics
Analyzing the Effect of Varying the Breadth of Background Corpora on the Performance of Terminology Extraction Systems

GROUP 10
Jenna Wisch, Pre-Health Studies
Addressing Social Needs of Families with a Phone-Based Social Determinants of Health (SDH) Screener at a Pediatric Clinic

GROUP 11
Bruce Wen, Economics
Re-Examining RAND Health Insurance Experiment with Modern Approaches: Application of Casual Inference and Machine Learning to Health Economics

GROUP 12
Jonathan Liles, Psychology
Cassandra Chum, Psychology
Alex Boyd, Psychology
Chrystelle Leveille, Psychology
Megan Moran, Psychology
Racial Biases in Children's Media

GROUP 13
Vidisha Goyal, Psychology
Hands, Toys, and Objects: Infant Mouthing During Everyday Activity

GROUP 14
Anabelle Rampersaud, Psychology
How Do Infants Learn Activities? Caregivers Describe the Objects of Infants' Play
GROUP 15
Ashley Winegarden, Psychology
Action-Focused Language Increases Children's Confidence in Science Tasks after a Setback

GROUP 16
Saul Shukman, Anthropology
Breaking Bad: Confusion in the Study of Bipolar Stone Tools

GROUP 17
Inki Amu, Psychology
Huidi Yang, Psychology
Probing The Relationship Between Aphantasia and Music-Evoked Nostalgia

Amisha Vyas, Psychology
Differentiating Warmth and Morality in Face Perception

GROUP 18
Ramya Manikkan, Psychology, Studio Art
Affordances for language: Infants' Actions with Objects Shape Caregiver Language
Panel Winners

ACCESS TO THE ARTS: DISPLAYING, PRESERVING, PERFORMING, AND INTERPRETING
Alyssa Kim, Art History, Psychology
The Barnes Legacy: Exploring the Exhibition Politics behind Displaying African Art

CULTURE AND SOCIETY I
Ebony Williams, Politics
Salient Identity and Political Polarization: The Effects of Altering Salient Identity on Political Polarization in Guyana

CULTURE AND SOCIETY II
Nikkie Lyubarsky, History, International Relations
The Search for a Jewish Homeland: An American Perspective on Birobidzhan 1928–1950

CULTURE AND SOCIETY III
Catherine Cao, Applied Psychology, East Asian Studies
Merciful Anger: The Esoteric Cult of “Five Wisdom Kings” and State-Protection Buddhist Rituals in Eighth-Century China and Japan

Anna Langlois, Journalism, Politics
Prepper, Inc.: COVID-19 and the Doomsday-Industrial Complex

ENVIRONMENTAL ISSUES
Olive Ottaviano, Anthropology, Environmental Studies

Eni Owoeye, Environmental Studies, International Relations
The Scope of Policy Responses to New Sulfur Pollution Abatement Technology for Vessels Traveling within U.S. Waters

EXAMINING THE ARTIST
Angela Cai, English and American Literature, Social & Cultural Analysis
The Poetics of Detention and Belonging: Spatializing Angel Island Immigration Station

GENDER STUDIES: A GLOBAL VIEW I
Chaoting Tang, Sociology
“I Wish I Could Be Rich”: A Study of Male Sex Workers in China
GENDER STUDIES: A GLOBAL VIEW II
Ilona Cherepakhina, Mathematics, Sociology
Digital Gaslighting: The Use of Belittling and Discrediting Towards Prominent Political Women on Social Media

GLOBAL ISSUES PAST AND PRESENT
Tzivia Appleman, Politics
Analyzing Attitudes Towards Uyghur Muslims among Chinese Nationals Living Abroad

ISSUES IN LAW, JUSTICE, AND GOVERNMENT I
Kenan Anderson, Data Science
Predicting Ideology: Can You Spot Political Mavericks in the Age of Twitter

ISSUES IN LAW, JUSTICE, AND GOVERNMENT II
Laila Tijani, Sociology
The Prisoner Reentry Experience and Presentation of Self in the Digital Information Age

ISSUES IN LINGUISTICS
Cassi Jones, Economics, French and Linguistics
Fragment Answers and Focus Exempt Anaphora

LATIN AMERICAN STUDIES
Sofia Olivarez, English and American Literature, Sociology
Machismo and Self-Image among Dominican American Brothers and Sisters

LITERATURE THROUGH THE AGES
Kayla Thompson, English and American Literature
Virginia Woolf’s Orlando, A Biography: Mediating Queer Identity through Configurations of Blackness

MATHEMATICS AND MODELING IN UNDERSTANDING OF THE PHYSICAL WORLD I
Aurelia Meiqi Brook, Mathematics, Physics
Andreas Tsantilas, Mathematics, Physics
Noise Benchmarking and Error Mitigation of IBM Q Systems

MATHEMATICS AND MODELING IN UNDERSTANDING OF THE PHYSICAL WORLD II
Jennifer Zeng, Computer Science
Physical Reasoning in an Open World
MOLECULES OF LIVING SYSTEMS I
Ari Davydov, Biology, Philosophy
3-Dimensional Organization and Dynamics of Microsporidian Infection

MOLECULES OF LIVING SYSTEMS II
Evelyn Keefer, Biology
Regulation of Neuron Number in the Drosophila Visual System

NEW YORK CITY: LONGSTANDING CHALLENGES AND DYNAMIC CHANGE
Docker Clark, Environmental Studies, French
Sunflower Superpowers on Governors Island: Soil Bioremediation and the Phenotypic Effects of Heavy Metals on Helianthus Salicifolius

PSYCHOLOGY: HUMAN BEHAVIOR AND PERCEPTION I
Anna Park, English and American Literature, Psychology
How Similar is Similar Enough? An Intersectional Approach to Examining Women’s Acceptance of Role Models

PSYCHOLOGY: HUMAN BEHAVIOR AND PERCEPTION II
Gabby Applebaum, Psychology
Did Famous Scientists Have to Overcome Obstacles? Investigating Motivational Messages in Children’s Books and Differences by Scientist Gender, Race, Ethnicity, and Domain

Adriana Bayron, Biology
Correlating UE Primitives and Their Failed Counterparts to Individual FMA scores

SOCIAL CONCERNS IN HEALTHCARE I
Diya Cherian, Global Public Health, Biology
Characterizing Candida auris: Charting the Course, Risks, and Epidemiology of an Emerging Fungal Pathogen—New Jersey, 2017–2021

SOCIAL CONCERNS IN HEALTHCARE II
Isa Buitron, History, Journalism
The Voices of Personalized Medicine

TECHNOLOGY AND SOCIETY
Mina Mohammadi, Politics
Sanctioned Country to Crypto Economy: On Iran’s Uptake of Cryptocurrencies
THE ECONOMIC MARKER: PRODUCTIVITY, PRICES, AND PROFITS

Bojana Starcevic, International Relations
Sharing the Wealth: EU Expansion and Economic Development in the Western Balkans

Anh Tran, Economics
The Minimum Wage and Its Trade-Off between Income Inequality with and without the Unemployed

THE URBAN DIVIDE

Sam Woodward, Urban Design & Architecture Studies Megaprojects
Assessing the Contemporary and Holistic Architectural Strategy of Current Cityscapes and Their Impacts on Affordable Housing