



**NYU**

**COLLEGE OF  
ARTS & SCIENCE**

## **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*

Solar Power Structure: New York State’s Representation of Low-  
Income Households in Community Solar Public Records (2010- 2022)

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