



NYU | CAS

47th

*Annual Undergraduate
Research Conference*



Humanities

Social Sciences

Natural Sciences

47th Annual
Undergraduate
Research
Conference

Thursday, May 6 to Friday, May 7, 2021

The URC will be hosted on the NYU Stream channel, "[CAS Undergraduate Research Conference \(2021\)](#)". The channel will be live starting on Thursday, May 6 9AM (ET).

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Welcome to the 47th Annual and 2nd Remote Undergraduate Research Conference

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Synchronous Engagement Period: Friday, May 7, 10AM – 12PM (ET)

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Foreword and Welcome:

Welcome to the 47th Annual and 2nd Remote Undergraduate Research Conference!

Below, you can find the video presentations that represent semesters' and sometimes years' of hard work and effort not only by the student participants but also on the part of their project mentors. The Undergraduate Research Conference is always a celebration of that work and the outstanding accomplishments of our students. It is particularly heartening to be able to celebrate these accomplishments this year.

Accessing and viewing the presentations:

The URC will be hosted on the [NYU Stream channel](#), "[CAS Undergraduate Research Conference \(2021\)](#)". The channel will be live starting on Thursday, May 6 9AM (ET).

Videos have been organized into "Playlists" corresponding to the presentation groups in the program. To access these different groups of presentations in the channel, please click on the "Playlists" tab. To see a list of all presentations, please click on the "Media" tab. Attendees can also search for a particular presentation by entering students' names in the search bar (see the Appendix of Presentations to search for presentations by students' name).

Engaging with Presenters:

Each presentation will be available for viewing and commenting for the duration of the Conference. Attendees are encouraged to stop by as they have time and submit any questions, comments, or feedback for our presenters using the "Comments" box accompanying each presentation.

There will also be a synchronous engagement period on Friday, May 7 from 10AM-12PM (ET). Presenters have been asked to respond to attendees' comments and questions as they are submitted. Please note that due to scheduling conflicts and time zone issues not all presenters will be available for the entire synchronous engagement period.

Technical Considerations:

NYU Stream works best with Chrome or Firefox browsers. If, while viewing, you receive a "Bad Request" error message and are unable to continue navigating the site, we recommend simply clearing your recent browser history and then reloading the page.

Concluding Thoughts:

The video presentations submitted here are a wonderful representation of the excellent work our undergraduates undertake each year. The Conference is a celebration of all our undergraduate researchers, their mentors, and all those who made this experience possible.

Thank you for attending and for showing your support to our amazing students. Enjoy the Conference!

Access to the Arts: Displaying, Preserving, Performing, and Interpreting

SASHA CARNES, Art History, Data Science

Progressive Deaccessioning: A Step Towards Museum Parity

LUCIA IGLESIAS, Art History

Gender Identities, Gender Relations, and Sexuality in the Middle Ages: Evidence of the 13th-Century Parisian Moralized Bibles

ANNA LECKIE, Art History

Found Treasure: A Story of Looted 19th-Century Korean Battle Flags

MARI OTSU, Art History, Psychology

Sketching the Fin-de-Siècle Self: Embodied Identity in the Self-Portraiture of Albrecht Dürer and Egon Schiele

KATIE SVENSSON, Anthropology, Art History

Abjection and Identity in the Works of Ana Mendieta and Kara Walker

Bacteria, Viruses, and Immunity I

ABRAR AHMED, Sociology

Molecular Targets of a Non-COX Inhibiting Novel Anti-Inflammatory Drug

ALINA DAVYDOV, Philosophy

The Parasite Within: Revealing the 3-Dimensional Organization of the Microsporidian Spore

JUHANA HABIB, Biology

The Role of ELF-1 Bound Genes in the Type I Interferon Response

CHERRY LAM, Biology

Serial Block Face Scanning Electron Microscopy of Host-Pathogen Interactions in the Microsporidian Species *Encephalitozoon intestinalis*

GRACE PAN, Anthropology, Biology

Uncovering the Role of a Novel Protein Kinase A (PrkA) in Bacterial Sporulation

Bacteria, Viruses, and Immunity II

SAM CIERVO, Biochemistry

Disabling the Helicase Activity of the Severe Acute Respiratory Syndrome Coronavirus 2's Nonstructural Protein 13 by Small Molecule Inhibitors

NEELAM PANDYA, Chemistry

DAVID SUNG, Chemistry/Chemical and Biomolecular Engineering
Influenza Diagnostic Test

HYE WON SHIN, Global Public Health/Chemistry

Functional Analysis of T cell Receptor Mutants That Affect Extracellular TCR-CD3 Interactions

ERIC WANG, Biochemistry

Novel Tumor-Specific TCR Discovery through Putative Neoantigen Activation

JILL WISNEWSKI, Biology, Spanish

Determining the Role of the IL-17 Signaling Pathway in Epidermal Development

Colonialism

SEAN CARR, Global Public Health/Anthropology
Neocolonialism along the Mexican-American Border

JUSTINE CRETEUR, Journalism, Politics
King Leopold II Is Rolling in His Grave: Belgium Is Finally Dealing
with Its Racial Inequality

RUCHEKA JAIN, French, Politics
Colonial America: A Comparative Study of the French and Spanish
Colonial Empires

CARLA ALEJANDRA LUGO MARTIN, Environmental Studies, Global
Liberal Studies
The Role of Colonial Histories in Natural Hazard Management

JESSIE LYNN WALL, Economics, International Relations
Religious Toleration in Colonial United States

Contemporary Global Conflict

JAMIN CHEN, International Relations

DONNA YANG, Politics

The Effects of Sexual Violence in the Post-Conflict State

SABRINA DAVIS, Environmental Studies

Conservation and Indigenous Rights in the Midst of Political Instability: A Case Study in Chatthin Wildlife Sanctuary, Myanmar

LAUREN HAGSTROM, Philosophy, Politics

Understanding the Impact of Nuclear Weapon Capabilities on Militarized Interstate Disputes

DYLAN LIANG, International Relations

Commodity Price Shocks and Interstate Conflict: Evidence and Analysis of Oil Production from 1993–2014

JAKE MAYERSON, International Relations

Assessing the Impact of Natural Disaster Incidence on Terrorist Activity

ELAN PELEGRI, International Relations

Cartels or Concessions?: The Hidden Use of State Violence in Mexico

JOO-YEON ANN YOON, International Relations

More Than Just Words?: An Analysis of the Relationship between Local News Media and Hate Incidents in the United States

COVID-19: Impacts and Responses

ANA AGUIRRE, Psychology, Spanish
Who Gets the Last Ventilator?

EMILIO BLAIR, Anthropology
Using the PHQ-9 Form to Study the Effects of the COVID-19
Pandemic on the Mental Health of Adolescents Aged 12-17

ANNA RACHEL HART KAUFMAN, Journalism, Spanish
Go Call Your Ancestors: How Today's Young People Can Learn to
Reckon with a Plague by Talking about Tragedy with Generations
Past

MCKENNA NISSON, Anthropology
Ethnography of an Essential Worker: How Social Ideas of Race,
Status, and Ability Are Expressed in COVID Testing and Vaccination
Sites

SOPHIA SANTANIELLO, Sociology
Activism and Community Care during the Covid-19 Pandemic: New
Challenges and New Possibilities

KATIE MUNDT, Global Public Health/Applied Psychology

VERONICA TORRES, Global Public Health/Sociology
The Impact of Motivation Bias on COVID-19 Compliance

SOPHIA YUFEI WANG, Journalism, Psychology
Socio-Economic Instability and Stress-Coping Strategies during the
COVID-19 Pandemic

Culture and Society I

MAZIRONG (COCO) CHEN, Anthropology

Chinese Anthropologists Talk about Anthropology in China

ETHAN FRAENKEL, Comparative Literature, History

“Risen from the Ruins”: The Politics and Culture of Jewish Anti-fascism in the German Democratic Republic (1949–1989)

FAITH MARNECHECK, Journalism, Spanish and Linguistics

How Veganism Became Mainstream

FELICIA NARA, Global Liberal Studies, History, Philosophy

Naming Chinese America: Personal Names as Signifiers of Identity Construction among Chinese Americans

HARRY ZHU, Anthropology

An Ethnographic Account of an Online Occult Community in China

Culture and Society II

SARAH BACIO, Global Public Health/Sociology

Constructions and (Re)Negotiations of Gender Identity through Language for Non-Binary Spanish and English Speakers

RUOLAN CHEN, East Asian Studies

Gender, Fan Politics, Real Person Fiction, and Censorship: A Study on “AO3 Incident” in China

JASMINE KWAK, Psychology, Sociology

“I’ll Make a Man Out of You”: How Does Korean Military Service Shape Perceived Masculinity?

ZOE LEE, Art History, History

“Are You White People?”: Race and Gender in the 1931–32 Massie-Kahahawai Cases

ANNA LIU, Sociology

Productions of Authenticity and Labor: A Case Study of Social Media Micro-Influencers

SARAH MARBACH, Neural Science, Spanish

Science versus Culture: The Father of Neuroscience’s Non-Scientific Work

Culture and Society III

JASMINE BALDERAS, International Relations

Familiar Faces: Impact of Co-National Presence on Present-Day Refugee Integration in Germany

JEREMY CROCKER, History

A Menace, a Paradise, a Home: Visions for Environment and Public Health in the Huleh, 1920-1947

ERA GJONBALAJ, History

Teaching Nationality: Mirash Ivanaj and Young Albania's Educational Reconstruction, 1933-34

NIKI HUNT, Anthropology, Art History

The Politics of Asking Permission to be Sovereign

JULIA-FRANÇOISE RAITH, French, International Relations

Indivisibility: France's Discriminatory Response to Radical Islamic Terrorism?

ISABEL RUDIE, International Relations

Concrete Implications? How Confederate Monument Removal Shapes Political Attitudes within the United States

Culture and Society IV

ZOIE BRAUSER, Environmental Studies

Beyond Government Constructions of Homelessness: Redefining the Problem and Building Alternative Futures

KIERA ERIKSEN-MCAULIFFE, History, Politics

Éamon de Valera and the American West: How the Social and Political Circumstances of the Western States Impacted and Informed the Irish President's Tour, 1919-1920

ELINE MUNSTER, European and Mediterranean Studies, Politics

The Rise of Populism in European Parliament Elections Post-Eurozone Crisis

LAYLA PASSMAN, American Studies

American Anarchism: Haight Ashbury and the Analysis of Modern Movements

SAFINA THEARD-LEWIS, French

Being Black in the Métropole: Conversations with the Nardal Sisters

Environmental Studies I

AUDREY BECKER, Environmental Biology, Environmental Studies
Trash and Bugs: The Relationship between Macroinvertebrates and
Landfill Composition with New York City's Borders

VICTORIA BIANCO, International Relations, Spanish
Deforestation and Migration in Colombia

BROOKLYN ALICIA JOHNSON, Asian/Pacific/American Studies,
Environmental Studies
Even the Water: An Analysis of the Navajo Nation's Water Crisis

GRACE SAMARITANO, Middle Eastern Studies
Searching for Synergies: Permaculture for Agroecological Transition
in Marda, Palestine

ANGELA ISABELLA SCAFIDI, Environmental Studies, Romance
Languages
Sub-Tropical Fruit Production and Water Availability in the
Mediterranean

Environmental Studies II

CATHERINE DEVINE, Journalism, Psychology
Oyster Farmers and Nantucket Sound

SARAH ELDRIDGE, Environmental Studies
Exploitation of Poultry Employees and Broiler Chickens: How Mutual
Oppression Necessitates Mutual Liberation

JAMIE EPSTEIN, Environmental Studies
The Miseducation of the Public on Climate Change and Climate
Action: A Beyond Petroleum Case Study

KATERINA KALERGIOS, Environmental Studies
The History and Implications of No-Entry No-Take Zones in the
Mediterranean: Examining the North Aegean

AMAAN STEWART, Environmental Studies
At Night, We Hunt: How the Topics of Immigration, Public Health,
and Fishing Congregate at a Pier in Coney Island

NADINE STODOLKA, Environmental Studies
Attitudes towards Golf in the Literature of Environmental Science:
The Blight of Big Golf

Examining the Artist

SAWYER ADLER, Music

A New Reading of Steven Hahn's *From the Nosferatu Ring*

ANASTASIA FOLEY, Economics, English and American Literature

Authoring Female Subjectivity: Motherhood in Sylvia Plath's *The Bell Jar* and Carol Shields's *The Stone Diaries*

TYLER HOLLADAY, English and American Literature, Music

To Love Oneself: Queer Self-Love in the Work of Jane Austen and Charlotte Brontë

LUCIA LEIGHTON KASSELLA, Media, Culture, and Communication, Psychology

Judging *Lolita* by Her Covers: A Visual Introduction and Critical Commentary

HANNA KHOSRAVI, English and American Literature, History

"This Silent and Forgotten Country": Orhan Pamuk, Kazuo Ishiguro, and the Ambient Metaphor of Postmemory

RAN WANG, Metropolitan Studies, Sociology

Vulnerability of Creative Networks: Fanfiction Writing under Censorship

Gender Studies: A Global View I

ANGELICA BURAC, Global Public Health/Anthropology

The Analysis of Prevailing Resistances Presented by Female Athletes in the United States

CIAN FORD, Journalism, Linguistics

(tr)ANARCHY: How Transgender Communities Built Their Own Liberation, without Your Permission

JASMINE KWAK, Psychology, Sociology

The Impact of Body Diversity of Female Media Characters on Preadolescent Self-Esteem: An Assessment of Children's Television Content

ELAINA SLAYTON, Journalism, Romance Languages

Sorry Not Sorry: A Study of Gendered Insults and Their Effect on Women

PHOEBE TUIE, Sociology, Spanish

Identity Management and Motherhood Visibility in STEM PhD Programs

GABRIELLE WEST WHITLEY, International Relations

Transgender Activism in Media, and How This Affects Transphobia and Trans Acceptance

Gender Studies: A Global View II

SUMAIYA ALAM, International Relations

Islam and Feminism Today: A Study on the Effect of Islam on Women's Welfare and Political Opinions in Egypt

NETANYA ALVAREZ, Anthropology

Interaction of Motherhood with Gender-Based Violence in Peru

SARIKA BHATTACHARJEE, International Relations

Electoral Gender Quotas, Women's Health, and Transparency

MORGAN DAVIS, Public Policy, Spanish

Female Leadership in Francoist Spain: National-Catholic Restrictions and Female Solidarity in the Sección Femenina's *Y Revista de la Mujer*

MARIALEJANDRA PORTAL, Politics, Spanish

Cómo Llegamos / Cómo Nos Quedamos: The Bridges and Barriers to Latinas in the Legal Profession

OLIVIA SUN, Spanish

Ambivalent Archives: A Study of the Historical Amnesia Surrounding the Coerced Sterilization of Puerto Rican Women

JILL VALDES, History

Madonna nor the Whore: Examining Transgressors of Golden Age Patriarchy in Castile

Genes, Growth, and Development

CAMILA COELHO, Biology

Debugging Syn 1, the Synthetic Yeast Genome Sc2.0

ADELIA GRACE GAFFNEY, Biology

Timing and Mechanisms of Transmedullary Neuron Circuit Formation in the *Drosophila* Optic Lobe

LIPI RAVAL, Biochemistry

Genomic Stability and Cell Growth in TET $\frac{1}{2}/3$ Triple Knockout MEFs

CAROLINA RIOS, Biology

Using Natural Intraspecific Variation to Determine the Functional Relationship between Larval Phenotypes and Predation Rate in *S. benedicti*

JULIUS WU, Biology

The Role of Retro-Transcriptase Activity in DNA Double-Strand Break Repair

SANDY YANG, Biology

Determining the Mechanism Underlying a Fitness Defect in Synthetic Chromosome II

WENDY YANG, Biology

Using Self-Organizing Maps to Characterize Inflammatory Responses in Placental Streptococcus Infection

Interpersonal Relationships

MARISA SIRINA BELTHOFF, Politics, Sociology
Women Married to Political Opposites

CECILIA GAI, Mathematics, Politics
Does Politics Affect American Romantic Relationships?

BROOKE LAMANTIA, English and American Literature, Journalism
Everybody Plays: Using Kink to Understand Consent

JULIA LECONTE, Global Public Health/Sociology
Loving More: Self-Fulfillment and Management Strategies in
Polyamorous Relationships

MARISA LOPEZ, Journalism, Sociology
The Role of Rejection and Gender Norms in Dating Experiences of
Heterosexual Males, 18–25

ALLISON MCGETTIGAN, Sociology
Investigating the Divisions of Labor among Straight and Lesbian
Couples without Children

Issues in Law, Justice, and Government I

CLAIRE BEUTTER, Politics

“Our Country Is Full”: Analyzing the Effects of the Trump Administration’s Refugee Policy on the Economic Outcomes of Refugees in the United States

SYDNEY BRINKER, Journalism, Politics

When Citizens of Authoritarian Regimes and Declining Democracies Turn to the Internet Anonymity Software, Tor

WILLA GEGELMAN, Sociology, Urban Design and Architecture Studies

Public Participation in Urban Redevelopment: A Case Study of the Ford Site in Saint Paul, Minnesota

APURVA KOTHARI, Environmental Studies, International Relations

Distributive Politics of Fertilizer Subsidy in India

MOLLY LEIFER, Public Policy

Education in New York State Prisons: A Deep Dive into Access and Quality of High School Equivalency Programs

DAN RUSSO, Politics

Sanctuary Policies and Income Inequality

MATTHEW SPAARGAREN, Economics and Mathematics, Italian

Achieving the Impossible: Electoral Stability in Italy

Issues in Law, Justice, and Government II

JAMIN CHEN, International Relations

Effect of Chinese Infrastructure on Pakistan's Elections

WILLIAM DAVID GUTIERREZ PARRA, International Relations

Integration vs. Autonomy: Regional Infrastructure and Voter Accountability in the Plurinational State of Bolivia

OLIVIA KUGIYA, Politics, Violin Performance

The Danger of Policing for Profit: Investigating the Relationship between Municipal Revenue Reliance on Fines, Fees, and Forfeitures and Police Violence

ZACHARY LEE, Journalism, Politics

Social Media Impact on Electoral Outcomes

CAMERON MAGLIO, Politics, Sociology

Analyzing the Recount Effect in House Elections on Vote Margin, Party Victory, and Party Turnover in the Next Election Cycle, 1940-2008

RUCHI MARFATIA, Politics

The Effect of Independent Redistricting Commissions on Partisan Advantage in US House Elections

CORINNE TARANOV, Politics

The Effects of Reforming Driver's License Suspension Laws on Unemployment in the US

Issues in Linguistics

ELIZABETH BARBIER, Communicative Sciences and Disorders
Relative Clause Production in Children: Comparing Two Elicitation Contexts

JANIE RIST, Communicative Sciences and Disorders
Children's Phonetic Imitation of Dialect-Specific Features

HOLDEN SINNARD, Linguistics
The Antisymmetry of Korean and Japanese Relative Clauses

DILYS TAN CHIAT, Communicative Sciences and Disorders
An Evaluation of Fundamental Frequency, Intonation Patterns, and Vocal Fry in Multilingual Singlish and Manglish Speakers

AWA TOURAY, French and Linguistics
Is the Contraction of I and Don't, to Produce "Io", a Feature of African American English?

Learning and Behavior in Mammals I

AYO ADEWAKUN, Neural Science

Oxytocin Modulation of Maternal Behavior

SHANNON HU, Neural Science

WEI SONG, Neural Science

Role of Ventral Tegmental Area in Social Behavior of Infant Rat following Adversity-Rearing

ROSE TEMIZER, Neural Science

Neurobiological Changes Evoked by Ketamine in a Mouse Model of Anorexia Nervosa

ASHLEY VALERIE URTECHO, Neural Science

Oxytocin-Mediated Learning of Maternal Behaviors in Virgin Female Mice

AVNI VARSHNEYA, Global Public Health/Biology

Understanding Neural Mechanisms Underlying Aggression: The Relationship between the Medial Preoptic Area (MPOA) and the Ventrolateral Part of the Ventromedial Hypothalamus (VMHvl)

BOYI (NINI) YU, Neural Science

Adversity Disrupts Infant Rodent Processing of Maternal Odor and Ventral Tegmental Area

Learning and Behavior in Mammals II

CENK AKIZ, Neural Science

To Eat or to Run? The Role of E-to-I Balance in the Prefrontal Cortex of Food Restriction-Stressed Adolescents during Decision-Making and Maladaptive Behaviors

DAVID BESPPOZVANY, Neural Science

Deficits Identified between FMR1 and Wild-Type Rats Reflect Role of the Cerebellum in Perceptual Timing and Temporal Processing

EISHA BUTT, Psychology

The Effect of the Object Discrimination Task on a Rat Model of Sporadic Alzheimer's Disease

MICHAEL FLORES, Biology

Behavioral and Cellular Characterization of a New Mouse Model for DDX3X Syndrome

ROBERT HOTZ, Psychology

Influence of Sound Level on Auditory Psychometric Task

KAREN SAN AGUSTIN RUIZ, Neural Science

Gaining a Temporal Understanding into the Necessity of Protein Synthesis in Aversive Memory Retrieval

ELIZABETH ZELDIN, Neural Science

Response of the Amygdala during Trauma with and without Early-life Adversity

Literature Through the Ages I

LARA DRZIK, English and American Literature

“Do Not Be a Pawn of the Olympians”: How Imperialist Aesthetics Are Constructed and/or Challenged in *The Lightning Thief* and *Harry Potter and the Sorcerer’s Stone*

TRISHA GUPTA, English and American Literature

Never One of the Crowd: Trauma Theory and the Need for Superiority in “William Wilson” and *The Picture of Dorian Gray*

JOHN MADONNA, English and American Literature

Cyclops and Exile: An Exilic Reading of James Joyce’s *Ulysses*

MARY OLIVER, Spanish

Listening and Witnessing in *Lost Children Archive*

QIANJUN PENG, Romance Languages

Images in Marguerite Duras’ “Asian” Novels

ANGELIQUE SIMEONE, English and American Literature

An Imperfect Science: Translating Pain and Identifying Comfort in Illness Narratives

Literature Through the Ages II

TRISHA GUPTA, English and American Literature

Penetrating, Piercing, and Androgenizing: The Linguistic Defining, Redefining, and Blurring of Gender in the *Beowulf* Manuscript and the *Madrid Skylitzes*

DEVANSHI KHETARPAL, Comparative Literature

Smarginatura and Rape Capitals: Sexual Violence and Urbanity in Elena Ferrante's Neapolitan Novels

DARIA HOPE KOWALSKI, Politics, Psychology

A Real Lolita in Tehran: A Novel Call to Action Regarding Non-Consensual Unions in the Middle East

RAFAEL TORRE DE SILVA, Classics

Catullus 45 and Horace *Odes* III. 9: Where Poetic Ambiguity Meets Skillful Intention

ANNA WALEWSKI, Comparative Literature

Our World, between the Lines: Historical Satire and the Satiric Sublime

KRISTEN WEATHERLEY, English and American Literature

A Computational Approach to the Study of Poetry Translation

Mathematics and Modeling in Understanding of the Physical World I

AURELIA MEIQI BROOK, Mathematics, Physics

ANDREAS TSANTILAS, Mathematics, Physics

The Gaussian Distribution: Streamlined Noise Benchmarking on Quantum Computing Hardware

RAHUL DAS, Computer Science

FORZANA RIME, Computer Science

WAYNE ZHU, Economics and Computer Science

BERT, BioBERT, and SciBERT—the TriBERT Evaluation on Biomedical Corpora

ERIC HE, Computer Science and Mathematics

DALIA ZHU, Computer Science and Mathematics

Polarity Classification and Sentiment Shift Analysis on E-Commerce Reviews

DANIELA PUCHALL, Computer Science

Parallel Computing Framework for Molecular Simulations

TANYA WANG, Computer Science, Mathematics

OLIVIA ZHANG, Computer Science, Mathematics

Improved Search Algorithm for Financial News

BOB JUNYI ZOU, Computer Science, Mathematics

An Alternative to Single-Qubit Unitary Approximation with Clifford and T Gates

Mathematics and Modeling in Understanding of the Physical World II

ISAY ACENAS, Environmental Studies

The Evolution of Observational Technology in Physical Oceanography

ISABEL BROWN, Chemistry

Elucidating Nucleocytoplasmic Transport with Fluorescent Proteins

TAYLOR COAKLEY, Physics

Elucidating the Nonequilibrium Nature of Nucleolar Coalescence in Live Human Nucleus

JERRY JI, Computer Science, Mathematics

Mathematical Modeling of Confined Space Airborne Virus Transmission

YAROSLAVA KYRYCHENKO, Mathematics, Psychology

JASON RADER, Mathematics

Methods and Applications of Matrix Inversion

ZIYI ZHANG, Computer Science

Zebrafish: 3D Traction Force Microscopy

Mathematics and Modeling in Understanding of the Physical World III

TINA CAO, Mathematics

Paper or Plastic?: Hydrodynamic Resistance of Drinking Straws

ANU RAGHUNATHAN, Mathematics/Mechanical Engineering

Exoplanet Search Algorithms Using Resonant Chains as a Statistical Booster

JIAJIE WU, Mathematics

The Water Clocks

JINGHONG XU, Economics and Mathematics

A Computationally Efficient Methodology to Compute Option-Adjusted Measures for Bond Futures Contracts

QISHUO YIN, Mathematics

Models, Simulations, and Analysis of Flying Formations of Aerodynamically Interacting Flappers?

XINTONG ZHU, Computer Science and Mathematics

Twirling Dynamics and Stable Levitation of Free Hula-Hoop on Gyrating Bodies

Media Studies: Film, TV, Music

EMMA FECKO, Journalism, Latino Studies

“I Don’t Perform Black, I Perform Filipina”: How Asian American Women Seek Success in the Hip-Hop Industry by Respecting the Culture and Paving Their Own Path

RENEE FIRTH, Comparative Literature

Identity and Subjectivity in *Incendies*

CASILDA GARCIA LOPEZ, Film and TV

The Poetry of Rage (Quinquis and Trap): Music, Film, and Marginality in Modern Spain

KRISTYN GRAVES, Medieval and Renaissance Studies

From Pasolini’s *Decameron* to Smut: A Discussion on the Reappropriation of Boccaccio’s *Decameron* in 1970’s Italy

MILO NARUSHCHEN, Spanish

Dialogue in Rhythm: An Ethnomusicological Comparison between North American Hip Hop and Funk Carioca

SOYOUNG ELIZABETH YUN, Cinema Studies

Re/Imagining South-North Korean Relationship through South Korean Film and TV

Molecules and Materials I

MELISSA BARRERA, Chemistry

Towards the Total Synthesis of Pyxidicycline B

ZACH BENSLIMANE, Biochemistry

Organocatalyst Mediated Functionalization of Hydrophosphoryl Compounds

STEVEN CHERNY, Chemistry

Zinc Treatment of Hydroxyapatite Surfaces

ALEX CUSHEN, Anthropology, Physics

Dendrite Superlattices: Investigating the Variable Atomic Structure of Electrodeposited Zinc Crystals

Molecules and Materials II

GEORGINA DABDOUB, Chemistry

Quantification of in vivo Metal Concentrations Using a Ratiometric Multi-Modal Low-Affinity Calcium Sensor

BRANDON LU, Chemistry

Semantomorphic Syntax: 3D Arrangement of DNA Tensegrity Triangles within a Hexagonal Lattice Using Mismatched Sticky Ends

BOBBY WOLESENSKY, Chemistry

Introducing Light-Dependent Functionality to Neurotransmitters

ERIC ZHU, Chemistry

Creation of Nano-pH Sensing DNA Motif

Molecules of Living Systems

MD FAHIM, Biology

Coping with Cell Stress: A Phosphoproteomics Approach Identifies Putative Downstream Effectors of the ER Transmembrane Kinase PERK

LUIS HERNANDEZ, Biology

Lipid Oxidation and Its Role in Aging in *Harpegnathos saltator*

ANGELICA KURTZ, Biology

Ex vivo and *in vitro* Analysis of the Tumor Microenvironment's Role in Chemotherapy Resistance

ASHLEY MEDINA, Neural Science

Stochastic Labeling and Activation of Neuronal Subsets in *Drosophila*

SONALI SHARMA, Biology

Multipotent Stromal Cell Derived Exosomes Promote Angiogenesis

Neural Science I

LAURA KANG, Neural Science, Psychology

Delineating the Neural Network Underlying Cannabinoid Modulation of Active Avoidance Behavior

HALEY PETERS, Biology

Assessment of Remote Memory through Spontaneous Spoken Recall and Natural Language Processing in Temporal Lobe Epilepsy Patients

SANYA RASTOGI, Neural Science

Remote Memory in Subjects with Epilepsy and Healthy Controls

DEVARSHI VASA, Psychology

Characterizing the Network Connectivity of the Habenula in Cocaine Addiction

SARAH ŽENKO, Neural Science

Use of Aromatic Therapy in Combatting Anxiety Disorders: Borders of Medicine

Neural Science II

HANNA HAMEEDY, Chemistry

Identifying the Role of Transcription Factor Prdm16 in the Differentiation of Motor Neurons in Zebrafish

BRENDAN HYSLOP, Neural Science

The Effect of Tumor Treating Fields on Glioma Stem Cell Differentiation

SUMAITA MAHMOOD, Global Public Health/Chemistry

Amygdala Projections to the Nucleus Accumbens Medial and Lateral Shell

ANDY MAO, Biology

Cell-Autonomous Lineage Tracing for Neuroblasts in the *Drosophila* Optic Lobe

SARAH WU, Biology

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CHRIS JING, Mathematics

Auditory Perceptual Multistability

RAMIA RAHMAN, Neural Science

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DILLAN SPECTOR, Neural Science

A Novel Form of Masking: Object Substitution Orientation-Shifted Masking (OSOM!)

YUNCHANG ZHANG, Mathematics, Neural Science

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ALEXANDRA DALEY, Environmental Studies

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Opaque Identities: The Fragmented Elements of Caribbean Identity Expressed by Suzanne Césaire and Maryse Condé

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BELLA KASABA, Psychology

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YUEQIAO LIU, Psychology

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JOSHUA PESANTES, Psychology

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ALLISON VENZ, Psychology

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Effects of Toy Type and Caregiver Availability on Infants' Object Play

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An Analysis of Altruism and Collaboration Goals Present in Children's Science Biographies

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Examining Contextual Effects on Children's Use of Costly Punishment: Group Membership and Parent Political Ideology

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MAYA SACASA, Comparative Literature, Psychology

Do Famous Scientists in Children's Books Portray Growth or Fixed Mindsets about STEM? Implications for Diversifying STEM

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Effort-Ability Gender Stereotypes in Children

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The Development of Gender Disparities among Those at the Very Top

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How POC Stereotypes and Skin Color Affect Perception of Intellectual Ability

NIA HARRIS, Global Public Health/Anthropology

Healing from the Earth: How Black Farmers Utilize Land and Food Sovereignty to Restore Health amid Racial Injustice

CHRIS PYO, History, Journalism

What Do Refunds from the Police Look Like? Analyzing the Viability of Community Policing in the #BLM Era

ANDREW SCHLAGER, Politics

Protests vs. Policing: How do Black Lives Matter Protests Affect Police Behavior at the Municipal Level?

KERI SHI, Philosophy, Politics

The Effect of Identity-Based Protest Movements on Racial Minority and Female Candidacy

JENNA TRACY, Psychology

Talking about Race: Examining Group-Level Goals in Race-Related Conversations between Interracial Friends

ALISON ZIMMERMAN, History, Journalism

How to End a Food Apartheid: Lessons from Black Vegans

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Schwarze Leben Zählen: How the Murder of George Floyd Sparked a New Discussion on Racism and Minority Rights in Austria

MIKAELA GEGELYS, Journalism, Psychology

The Abolish Greek Life Movement

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DIEGO QUINTANA LICONA, Chemistry, Gender and Sexuality Studies

Shadow Banning and Video Deletion: A Cross-Sectional Study of TikTok's Application of Community Guidelines between Black and White Creators

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Political Orientation and Its Effects on Responsibility to Address Inequality

MAUREEN PETICA, Psychology

The Effects of Intraminority Discussions about Race on Collective Action

JENNA TRACY, Psychology

White Democrats vs. White Republicans: Political Identity Signaling in Interracial Interactions

SOPHIA YUFEI WANG, Journalism, Psychology

A Racial Crisis at the US Census: Do We Still Need a Race Box?

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Social Context of Disability Identity in Chronic Invisible Illnesses

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American Jails: A Substitute for Substance Abuse Treatment Resources

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Characterization of Patient Health Education after Discharge from a Skilled Nursing Facility following a Heart Failure Hospitalization

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Unique and Critical Healthcare: The Callen-Lorde Community Health Center NYC

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“Pretend I’m Not There, but Remember That I Am”: Medical interpreters as Members of the Healthcare Team, and the Effects of COVID-19

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Latine Immigrants and Exclusionary Healthcare Politics: What People Do When They Are Ignored by the State

CORDELIA KWON, Global Public Health/Anthropology

Blood, Toil, Tears, and Sweat: The Mobilization of Global Health Trends in the Aboriginal Australian Community-Controlled Health Movement

VIBHA MITAL, Global Public Health/Biology

The Effects of Transitions in Care in Heart Failure Rehospitalization

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Caution: Trigger Warnings May Be Doing More Harm than Good

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Potential Downstream Social Consequences of Ability Grouping

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The Relationship between Trait Narcissism and Antisociality in Altruistic Behavior

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When Is It a Waste of a Wax: Understanding Female Sexual Preparation Behaviors from a Dyadic Perspective

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Moral Beliefs Align through Conversation and Collective Judgments

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The Correlation between Belief Polarization and Visual Confirmation Bias in Forensic Science

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First Offer, Worst Offer?: Analyzing the Outcome of a First Offer When Negotiating with a Moral Violator

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Can Status Impact How We Perceive Gender? A Novel Approach to Gender Stereotyping

CHO LAAM YUEN, Comparative Literature, Psychology

Learning for Yourself versus Learning for Others

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AIDAN LEVI-MINZI, Economics, Italian

Chi più ha giudizio, più ne adoperi: An Empirical Examination of Economic Growth within Italian Banking Foundations

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The Forecasting Power of Implied Volatility in the Emerging Chinese Financial Markets

KEVIN LU, Economics and Mathematics

The Fundamental Mission of CAT Bonds: An Analysis of CAT Bond Issuance and Firm Growth

CELIA XIE, Economics and Mathematics

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BRENDAN YAP, Economics

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