

Leadership Alliance



National Symposium



July 30 – August 1, 2020

WELCOME

TO THE

2020 Virtual Leadership Alliance National Symposium!



On behalf of the Leadership Alliance, it is with great pleasure to welcome you to the 2020 Virtual Leadership Alliance National Symposium (VLANS), which marks the 25th anniversary of this event! Inaugurated in 1995, this symposium has provided presentation, networking and skill-building opportunities for more than 5000 participants, including undergraduates, graduate students, postdoctoral fellows, research professionals, faculty and administrators. I would like to take a moment to extend a special welcome to the students who took part in our first ever virtual Professional Development series - an 8-week certificate program that engaged over 600 students from Puerto Rico to Hawaii. This tremendous cohort of students have been inquisitive, energetic, engaged and enthusiastic as they helped us navigate and develop a program that allowed the Leadership Alliance to reach more students than we ever have in one summer. It's been an inspiring silver lining in our unexpected move to a virtual world and we are grateful to all of the students who

joined us in the “classrooms” and who are joining us at VLANS this weekend.

I am grateful to the Leadership Alliance community for pressing on in the wake of a pandemic and at a time when our country is grappling with systemic injustices and social and economic inequities.

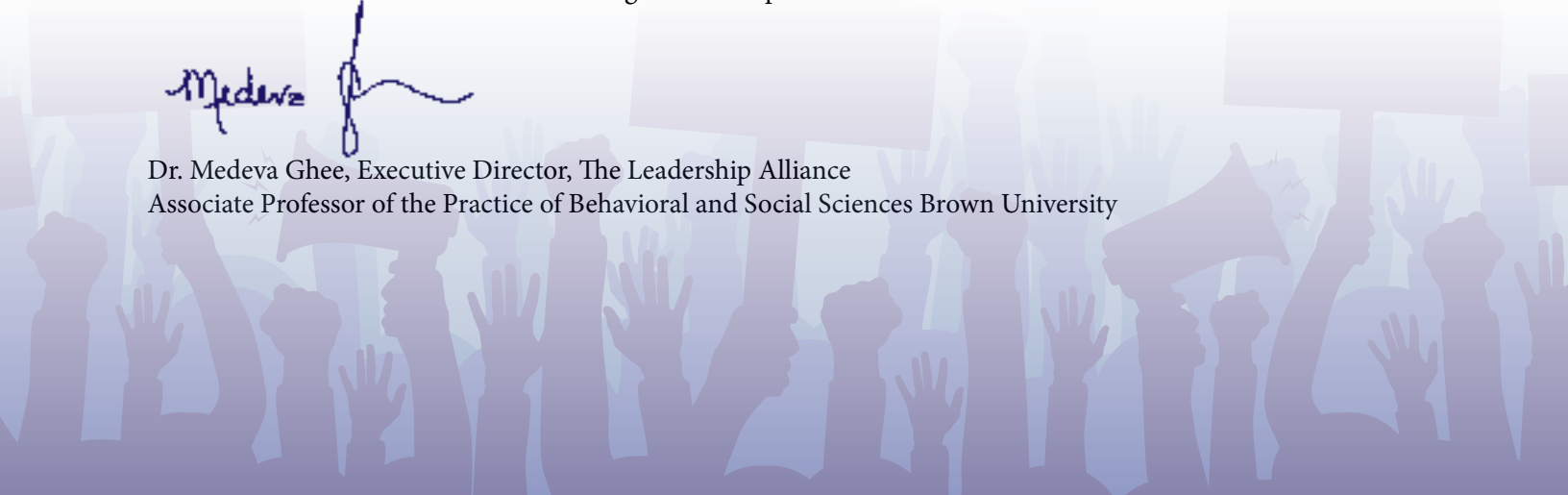
For these reasons, our theme, *Becoming Agents of Change: One Voice, No Boundaries*, is a rallying cry for each and every one of us. We all have the power to mentor and inspire the next generation of leaders and role models who can and will change the world. We will leverage this virtual platform to celebrate scholarship, community and purpose to empower and support our scholars, who have the opportunity to amplify voices for freedom and equality through an influx of new ideas representative of diverse perspectives. In the powerful words of the late Representative John Lewis, *We need someone who is going to stand up, speak up and speak out for the people who need help, for the people who have been discriminated against.*

I am proud of what we have accomplished and while I know that we have more work to do it, we are committed to *speaking up and speaking out* in our efforts to develop change agents for the next 25 years and beyond.

Best wishes for a memorable and rewarding VLANS experience!

A handwritten signature in blue ink that reads "Medeva Ghee".

Dr. Medeva Ghee, Executive Director, The Leadership Alliance
Associate Professor of the Practice of Behavioral and Social Sciences Brown University



A Word From Our Committee Chair



We, the members of the Symposium Planning Committee, welcome you to our Virtual Leadership Alliance National Symposium (VLANS). These are extraordinary times filled with challenges and opportunities; but nevertheless we are delighted that you have chosen to join us in this venture. Nine months ago, we never imagined that this would be the format for our National Symposium, our signature summer activity, where we bring the members of our Leadership Alliance family together to recognize all that we have done and plan pathways to future successes. In creating this summer's programming, we used our human, financial, and technological resources to demonstrate

that we are #AllianceStrong as we moved forward on behalf of our member institutions, alumni, participating students, and partners. We are delighted that you have joined us, and we in that you have joined us, and we hope that this experience allows everyone participating to benefit from your knowledge and presence.

Warm regards,

A handwritten signature in purple ink that reads "Don C. Brunson".

Don C. Brunson, Chair
Symposium Planning Committee



2020 Leadership Alliance National Symposium

AGENDA 2020

Thursday, July 30

3:00 PM

Opening Plenary Welcome

Dr. Medeva Ghee, *Executive Director, The Leadership Alliance, Associate Professor of the Practice of Behavioral and Social Sciences Brown University*

Dr. Don C. Brunson, *Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program (VU-EDGE)*

3:30 PM

Virtual Roll Call

3:30 PM

Conversation with Doctoral Scholars

4:00 PM

Q&A with Doctoral Scholars

Friday, July 31

2:55 PM

Welcome Video

3:00 PM – 4:00 PM

Session I: Poster Presentations

4:05 PM – 5:05 PM

Session II: Oral Presentations

Saturday, August 1

2:55 PM

Welcome Video

3:00 PM – 5:00 PM

Session III: Oral Presentations Continue

2020 Leadership Alliance National Symposium

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Conversations with Doctoral Scholars



Moderator:

Taiese Bingham-Hickman, M.S., M.B.A., Ph.D.

Associate Director, The Leadership Alliance

Alliance Summer Research Early Identification Program (SR-EIP), embodies this mission. After participating in the SR-EIP at Harvard Medical School, she earned both M.S. and Ph.D. degrees from New York University School of Medicine and completed her M.B.A at Northeastern University. Dr. Bingham is a member of the American Society of Pharmacology and Experimental Therapeutics and a published author in her field.

Informed by an impressive multi-sectoral professional trajectory, Dr. Bingham-Hickman brings a wealth of experience to this position. In the past three years, she served as the Assistant Director of Biomedical Informatics Research and Operations at Brown University, where she supported the operational functions of the Brown Center for Biomedical Informatics (BCBI) with major statewide initiatives. In this capacity, she also served as the technical liaison for assigned projects with BCBI collaborators across Brown and its affiliated hospitals, as well as regional/national/international partners. Prior to coming to Brown, Dr. Bingham-Hickman worked in the private industry at Beacon Health Options as the Vice President of Data Analytics where she oversaw Beacon's Analytics Innovation Center that provided thought leadership and analytic capabilities to ensure optimal behavioral health solutions for regional and specialty health plans; employers and labor organizations; and federal, state and local governments. She managed a team that leveraged advanced analytic concepts to drive actionable, insight driven and outcome-oriented decision making to deliver the best in class service for its members, providers and clients. Dr. Bingham-Hickman also worked as the Manager of Analytics for Beacon's Pharmacy Intervention Program and was key in the development of evidence-based algorithms to help identify medication related problems specific to behavioral health conditions.



Paloma Vargas, Ph.D.

Dr. Paloma Vargas is an Assistant Professor, Biology and Director of Hispanic-Serving Institute Initiatives at California Lutheran University. Dr. Vargas received her B.S. in Biology from the University of Texas at El Paso, and her M.S. and Ph.D. in Medical and Molecular Parasitology from The Sackler Institute of Graduate Biomedical Sciences at New York University. Her graduate and post-doctoral work focused on host-pathogen interactions of both parasitic amoeba (*E. histolytica*) and *Legionella pneumophila*, the causative agent of Legionnaire's Disease. She continues studying these diseases in her lab at Cal Lutheran and teaches both introductory biology course for majors and an advanced course in emerging infectious diseases.

As Director of HSI Initiatives, Dr. Vargas' work focuses on evaluating and dismantling policies through an equity lens. Her goal is to address issues of justice, equity, and access in higher education for historically marginalized groups (Latinx, African America/Black, Pacific Islanders, Native Americans, Alaska Natives).

Dr. Vargas is an anti-racist in training, centers culturally relevant pedagogy in her teaching and is an active member of both the Society for the Advancement of Chicanos/Latinos and Native Americans in Science (SACNAS) and of the Alliance of Hispanic-Serving Institute Educators (AHSIE), where she serves as VP of Conference.

Conversations with Doctoral Scholars



Antoinette Nelson, Ph.D.

Dr. Antoinette G. Nelson is an AAAS Science and Technology Policy Executive Branch Fellow at the U.S. Agency for International Development (USAID) in Washington, D.C. She is also a Technical Advisor within USAID's Office of Gender Equality and Women's Empowerment where she co-manages the Agency's gender and environment portfolio. In this role, she supports the strategic integration of gender-equitable practices into USAID's broad programming across sectors such as global climate change, energy, urbanization, land and biodiversity. She also directly oversees various women's economic empowerment activities being implemented in over 30 countries globally. Prior to joining USAID, Dr. Nelson spent time as a Congressional Intern

with the U.S. Senate Budget Committee and the Office of Senator Bernie Sanders, working on a wide range of topics including health, education and foreign policy issues. Dr. Nelson earned her Ph.D. in Biomedical Engineering from Rutgers University in 2018 where her dissertation research focused on the development of a nanotechnology-based drug delivery platform for HIV prevention. She received her B.Eng. in Biomedical Engineering from Stony Brook University in 2012 and completed the Leadership Alliance SR-EIP at Johns Hopkins University in 2011. Dr. Nelson is a proud member of Delta Sigma Theta Sorority, Incorporated.



David Castro, Ph.D.

In 1999, David Castro graduated from the University of Puerto Rico-Río Piedras with a Bachelor's Degree in Chemistry. In 2005, he defended his Ph.D. dissertation titled "Collisions and Reactions of n-Propanol with Liquid NaOH/KOH" in Physical Chemistry at the University of Wisconsin-Madison. That same year, he joined the Research, Development and Engineering (RD&E) department at what is now known as Nalco Water, An Ecolab Company (www.ecolab.com) within the Pulp and Paper division. As a scientist, he designed and conducted experiments to study the effects of novel chemistries in the production efficiency of paper and the properties of the final product. Two specific areas of his research were paper sizing (the ability of the paper

to repel hydrophilic liquids) and Yankee coating formulations for the production of tissue and towel grades. Together with fellow researchers, Mr. Castro is part of at least ten patents and patent applications in Paper technologies. In June of 2019, he became a full-time manager in the Global Analytical and Microbiological Services division in Ecolab. In this new capacity, Mr. Castro is part of a team that provides analytical services to the innovation pipeline of the company.

Conversations with Doctoral Scholars



Orly Clerge, Ph.D.

Orly is an author and sociologist whose research focuses on race, migration, cities, inequality, and identity. Orly's first book *The New Noir: Race, Identity & Diaspora in Black Suburbia* (University of California Press) is a comprehensive exploration of the making of Black diasporic suburbs. The New Noir examines how nationality and citizenship are negotiated by the Black middle class and is the first book in a two-book series on the politics of Black identity in the 21st century. Orly is currently crafting a book on the political identities of Black millennials during the Obama and Trump era. Tentatively titled *Young World*, this book is an intersectional analysis of how Black youth growing up in middle class neighborhoods construct and challenge ideas about opportunity, political

solidarity, and racial progress.

Orly also co-edited *Stories from the Front of the Room: How Higher Education Faculty of Color Survive & Thrive in the Academy* (Rowman & Littlefield, 2017) which uncovers the daily encounters underrepresented faculty at historically White college and universities have with racial exclusion and their strategies of resistance. This volume is a collection of letters from dynamic faculty of color across the country who dare to make public their private racialized interactions with other faculty, administrators, students and staff. These letters are paired with mentor letters from senior faculty who offer tools for creating racial equity in higher education. Orly's other writings have appeared in *Ethnic & Racial Studies*, *The New Black Sociologist*, *Sociology Compass*, and *Population, Space and Place*.

<https://tlans.org/storytellers-2020/>

Poster Presentations

Friday, July 31

Adewakun, Ayomiposi3:50 p.m., Breakout 2
Using Laminar Data Analysis to Derive LFP & CSD Signals with HNN

Research Mentor: Stephanie Jones
 Research Institution: Brown University
 Home Institution: New York University
 Co-Authors: Stephanie Jones, Brown University; Blake Caldwell, Brown University; Nicholas Tolley, Brown University

AB

Akiel, Yohannes3:00 p.m., Breakout 1
Heart Organoids to Study The Pathogenesis of Heart Failure

Research Mentor:
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution:
 Co-Author: Guillermo Garcia-Cardena, Harvard University Div. of Medical Sciences

AB

Alam El Din, Dowlette3:20 p.m., Breakout 3
Using Naive Participant Analysis to Evaluate the Integrity In Vitro Stroke Models

Research Mentor: Diane Hoffman-Kim
 Research Institution: Brown University
 Home Institution: The University at Buffalo
 Co-Authors: Hoffman-Kim, Brown University; Rasheedat Ekiyoyo, Brown University

AB

Alzugaray, Kaytlin3:30 p.m., Breakout 3
Regulation Of Oncogenic Stress Response In Gastric Cancer

Research Mentor: Catharine Boothroyd & Benjamin Levitt
 Research Institution: Weill Cornell Medical College
 Home Institution: Florida International University
 Co-Authors: Alexander Zaika, University of Miami; Elena Zaika, University of Miami

AB

Arana, Diego3:50 p.m., Breakout 6
Examining Pre-commitment Effects in Promotion Decisions with Conjoint Analysis

Research Mentor: Research Mentor: Mina Cikara
 Research Institution: Harvard University
 Home Institution: Indiana University-Bloomington
 Co-Authors: Mina Cikara, Harvard University; Linda Chang, Harvard University

SS

Arzavala, Jessica3:20 p.m., Breakout 5
Dynamical Constraints Of Neural Models In Hodgkin-Huxley Form

Research Mentor: Research Mentor: Jason Ritt
 Research Institution: Brown University
 Home Institution: Smith College
 Co-Author: Jason Ritt, Brown University

PS

Presentation Categories

AB **Applied Biosciences**
 Molecular Processes and Genetics, Biochemistry

BB **Basic Biosciences**
 Human Biology & Disease, Public Health, Biomedical Engineering

EN **Engineering**
 Mechanical, Electrical & Materials Engineering

ES **Earth Science**
 Environment Sciences, Geosciences, Marine Sciences

HU **Humanities**
 Literature, Language Arts, History, Media

PE **Policy & Ethics**
 Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS **Physical Science**
 Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS **Social Science**
 Sociology, Economics, Psychology, and Behavior Sciences

Barrera, Axel3:10 p.m., Breakout 5*ECG Classification Using Reservoir Computing*

Research Mentor: Sameer Sonkusale
 Research Institution: Tufts University
 Home Institution: The University of Texas at Austin
 Co-Author: Sameer Sonkusale, Tufts University

EN**Boring, Beau3:10 p.m., Breakout 4***In Search of REE Partition Coefficients Relevant to Studying Magma Genesis in the Martian Mantle*

Research Mentor: Research Mentor: Yan Liang
 Research Institution: Brown University
 Home Institution: University of Tennessee, Knoxville
 Co-Authors: Nick Dygert, University of Tennessee,
 Knoxville; Yan Liang, Brown University

ES**Brooks, Alexis3:30 p.m., Breakout 6***The Impact of Water Inequality on Coronavirus Disease Outcomes in the United States: A Comparative Study*

Research Mentor: Amanda Lynch
 Research Institution: Brown University
 Home Institution: Spelman College
 Co-Authors: Amanda Lynch, Brown University; Kimber
 Brain, Brown University; Zachary Bischoff Mattson,
 Brown University

SS**Buchanan, Arianna3:20 p.m., Breakout 7***The Motherhood Penalty and Fatherhood Premium during COVID-19: Evidence from the United States*

Research Mentor: Felipe Dias
 Research Institution: Tufts University
 Home Institution: Duke University
 Co-Authors: Felipe Dias, Tufts University; Joesph Chance,
 Tufts University

SS**Cisneros, Isaiah3:40 p.m., Breakout 6***Distance Perception In The Time of Covid-19*

Research Mentor: Mukesh Makwana
 Research Institution: Brown University
 Home Institution: Heritage University
 Co-Author: Mukesh Makwana, Brown University

SS**Cobb, Roy3:50 p.m., Breakout 8***Hack Moves*

Research Mentor: Maurice Schweitzer
 Research Institution: University of Pennsylvania
 Home Institution: Louisiana State University and
 Agricultural & Mechanical College
 Co-Authors: Thomas Bitterly, University of Pennsylvania;
 Maurice Schweitzer, University of Pennsylvania; Alex
 Hirsch, University of Pennsylvania

SS**Colquhoun, Amber3:30 p.m., Breakout 7***Discrimination within College Admission: Examining Disparities in College Admittance Among Applicants with Criminal Records*

Research Mentor: Ryan Enos
 Research Institution: Harvard University
 Home Institution: Temple University
 Co-Authors: Ryan Enos, Harvard University; Jacob
 Brown, Harvard University

PE**Diaz, David3:20 p.m., Breakout 8***Bibliometric Analysis of Pesticide Literature In Argentina: Understanding The Emergence and Social Structure of Scientific Fields*

Research Mentor: Scott Frickel
 Research Institution: Brown University
 Home Institution: California State University-Northridge
 Co-Authors: Scott Frickel, Brown University; Florencia
 Arancibia, Brown University

SS**Ekiyoyo, Rasheedat3:10 p.m., Breakout 3***Using Naive Participant Analysis to Evaluate the Integrity of In Vitro Stroke Models*

Research Mentor: Diane Hoffman-Kim
 Research Institution: Brown University
 Home Institution: Pennsylvania State University-Main
 Campus
 Co-Author: Diane Hoffman-Kim, Brown University

AB

Flores, Andrea3:10 p.m., Breakout 1*Development of anisotropic, peptide-based hydrogels to mimic muscle contraction*

Research Mentor: Danielle Mai
 Research Institution: Stanford University School of Engineering
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Author: Danielle Mai, Stanford University School of Engineering

AB**Garcia, Miguel3:00 p.m., Breakout 6***Reasoning about Health Threats and Morality: The Impact of Bilingualism*

Research Mentor: Lawrence Cohn
 Research Institution: Princeton University
 Home Institution: The University of Texas at El Paso
 Co-Authors: Veronica Armendariz, Princeton University; Paola Baca, Princeton University; Roberto Moran, Princeton University; Adolfo Alvarez, Princeton University; Lawrence Cohn, Princeton University

SS**Gonzalez Dumeng, Christian ...3:50 p.m., Breakout 1***A Perspective of DNA Glycosylases on Base Excision Repair*

Research Mentor: Sarah Delaney
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Aguadilla
 Co-Authors: Sarah Delaney, Brown University; Treshaun Sutton, Brown University; Paul Caffrey, Brown University

BB**Grear, Destiny3:10 p.m., Breakout 2***An Epidemic Within a Pandemic: Increased Millennial's Opioid Abuse and Deaths*

Research Mentor: Sarah Hernandez
 Research Institution: Xavier University of Louisiana
 Home Institution: Xavier University of Louisiana
 Co-Author: Sarah Hernandez, Xavier University of Louisiana

AB**Guevara, Ruby3:30 p.m., Breakout 2***Bioinformatic Analysis of the Pulmonary Endothelial Cell Transcriptome*

Research Mentor: Elizabeth Harrington
 Research Institution: Brown University
 Home Institution: Heritage University
 Co-Authors: Elizabeth Harrington, Brown University; Havovi Chichger, Brown University; Huetran Doung, Brown University

AB**Harrell, Alexis3:10 p.m., Breakout 6***Improving Detection and Understanding of Suicide Risk in the Military: A Mixed-Methods Analysis of Social Media Posts*

Research Mentor: Matthew Nock
 Research Institution: Harvard University
 Home Institution: University at Buffalo
 Co-Authors: Matthew Nock, Harvard University; Kelly Zuromski, Harvard University

SS**Jenkins, Justus3:30 p.m., Breakout 8***Black Lavender: Pouring Tea*

Research Mentor: Jennifer Betts
 Research Institution: Brown University
 Home Institution: Claflin University
 Co-Author: Jennifer Betts, Brown University

SS**Kaufman, Christopher "Tad" ...3:00 p.m., Breakout 8***Anatomical Ambiguity and Mythic Monstrosity: How Frankenstein's Creature Embodies A Queer Trans Narrative*

Research Mentor: Heather Cole
 Research Institution: Brown University
 Home Institution: Hanover College
 Co-Authors: Heather Cole, Brown University; Jennifer Betts, Brown University

HU**Lasalde, César3:30 p.m., Breakout 5***Analog Neural Network with Charge Trap Transfer RAM Based In-Memory Computing*

Research Mentor: Sameer Sonkusale
 Research Institution: Tufts University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Author: Sameer Sonkusale, Tufts University

EN

Lyu, Yi3:00 p.m., Breakout 4

“Inverse Design for Shapeshifting”

Research Mentor: Timothy Atherton
 Research Institution: Tufts University
 Home Institution: University of California-Santa Cruz
 Co-Author: Timothy James Atherton, Tufts University
PS

Martinez, Elena3:40 p.m., Breakout 5

Investigating Blood Pressure Losses at Junctions in Patient-Specific Simulations

Research Mentor: Martin Pfaller
 Research Institution: Stanford University School of Engineering
 Home Institution: Loyola Marymount University
 Co-Authors: Martin Pfaller, Stanford University School of Engineering; Jonathan Pham, Stanford University School of Engineering
PS

Mendez, Diego3:20 p.m., Breakout 1

Investigating the cis-regulatory landscape of acute myeloid leukemia and normal bone marrow cells

Research Mentor: Jason Buenrostro
 Research Institution: Harvard University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Vinay Kartha, Harvard University; Salman Banani, Harvard University; Jason Buenrostro, Harvard University
AB

Meservey, Alexis3:00 p.m., Breakout 5

Stability of 2D Materials under Normal Environmental and Biological Conditions.

Research Mentor: Robert Hurt
 Research Institution: Brown University
 Home Institution: University of Connecticut
 Co-Authors: Robert Hurt, Brown University; Vidushi Shukla, Brown University
EN

Munguia, Estevan3:30 p.m., Breakout 4

Imaging the Lithosphere of the Colorado Plateau using Rayleigh Wave Phase Velocities

Research Mentor: Colleen Dalton
 Research Institution: Brown University
 Home Institution: University of Colorado Boulder
 Co-Author: Colleen Dalton, Brown University
ES

Muntaha, Sidratul3:20 p.m., Breakout 6

Hopeless and Stateless: Fundamental Rights of Refugees and Asylum-Seekers in the Twenty-First Century

Research Mentor: Evelyn Hu-DeHart
 Research Institution: Brown University
 Home Institution: Emory University
 Co-Author: Evelyn Hu-DeHart, Brown University
PE

Ogunlade, Oyindamola3:40 p.m., Breakout 1

Understanding the Function of Glia in a Zebrafish Behavioral Circuit

Research Mentor: Mariela Petkova
 Research Institution: Harvard University
 Home Institution: University of Pennsylvania
 Co-Authors: Florian Engert, Harvard University; Mariela Petkova, Harvard University
BB

Olea, Cassandra3:30 p.m., Breakout 1

Mind, body, and society: the far-reaching effects of fetal alcohol exposure

Research Mentor: Mark Burke
 Research Institution: Howard University
 Home Institution: Heritage University
 Co-Author: Mark Burke, Howard University
AB

Olmstead, Lilia3:00 p.m., Breakout 3

Overview of Polarity Protein Expression Patterns in T Cells

Research Mentor: Senthil Muthuswamy
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: The University of Texas at El Paso
 Co-Authors: Senthil Muthuswamy, Harvard University; Weilin Li, Harvard University
BB

Ríos, Agnes3:20 p.m., Breakout 4

Analyzing the distribution and abundance of bicarbonate-utilizing carbon fixation pathways in Yellowstone National Park using metagenomics

Research Mentor: Harvard University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Ana Gonzalez, Harvard University; Ann Pearson, Harvard University
ES

Rodrigues, Daniela Emilia3:50 p.m., Breakout 7***COVID Crossfire: Boston Area Students Stuck Between Policy and Pandemic***

Research Mentor: Anthony Jack
 Research Institution: Harvard University
 Home Institution: Emmanuel College-Boston
 Co-Author: Anthony Abraham Jack, Harvard University
SS

Saint-Cyr, Neud's3:10 p.m., Breakout 8***To Be, Or Not To Be Black, That Is The Question: A Survey Of The Literature On Black Immigrants In America.***

Research Mentor: Keisha Khan-Perry
 Research Institution: Brown University
 Home Institution: University of North Carolina at Charlotte
 Co-Authors: Keisha Khan-Perry, Brown University;
 Francoise Hamelin, Brown University
HU

Scott, Roland3:40 p.m., Breakout 2***Using Patient Induced Pluripotent Stem Cell (iPSC)-Derived Neurons to Model Succinic Semialdehyde Dehydrogenase (SSADH) Deficiency and Screen for Novel Treatments***

Research Mentor: Wardiya Afshar Saber
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Pomona College
 Co-Authors: Mustafa Sahin, Harvard University Div. of Medical Sciences; Wardiya Afshar Saber, Harvard University Div. of Medical Sciences
AB

Sieweyumptewa, Patricia3:00 p.m., Breakout 7***The Influence of Episodic Simulation on Affective Intergroup Empathy***

Research Mentor: Mina Cikara
 Research Institution: Harvard University
 Home Institution: University of Arizona
 Co-Authors: Marius Vollberg, Harvard University; Mina Cikara, Harvard University
SS

Slaughter, Joshua Slaughter3:10 p.m., Breakout 7***Towards Using Convolutional Neural Networks to Predict Human Behavior and Neural Representations***

Research Mentor: Marius Catalin Iordan
 Research Institution: Princeton University
 Home Institution: University of Maryland-Baltimore County
 Co-Author: Marius Catalin Iordan, Princeton University
SS

Tiburcio, Diana3:40 p.m., Breakout 7***Social Class and Student Employment: Undergraduate Perspectives on Working in College and its Impact on Inter-College relationships and Future Employment.***

Research Mentor: Anthony Jack
 Research Institution: Harvard University
 Home Institution: Amherst College
 Co-Author: Anthony Jack, PhD, Harvard University
SS

Tracey, Britney3:00 p.m., Breakout 2***Investigating the Roles of Small RNA in DNA Damage Repair***

Research Mentor: Danesh Moazed
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Fayetteville State University
 Co-Authors: Danesh Moazed, Harvard University Div. of Medical Sciences
BB

Velazquez, Diana3:40 p.m., Breakout 4***Carbon Isotope Ratios Reflect The Relative Diversity Of Carbon Metabolisms In Hot Springs Archaea***

Research Mentor: Ana Camila Gonzalez Valdes
 Research Institution: Harvard University
 Home Institution: Northwestern University
 Co-Author: Ann Pearson, Harvard University
ES

Warner, Destini3:40 p.m., Breakout 8***American Guerrilla: Different Decade Same Struggle***

Research Mentor: Jennifer Betts
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Author: Jennifer Betts, Brown University
HU

Oral Presentations

Friday, July 31

Alvarez, Eleanor5:05 p.m., Breakout 11

Using Stellar Abundances to Identify Potentially Habitable Super-Mercury Exoplanets

Research Mentor: Stephen Parman
Research Institution: Brown University
Home Institution: Occidental College
Co-Authors: Alexander Evans, Brown University; Stephen Parman, Brown University

ES

Atahan, Bulent4:05 p.m., Breakout 9

City Trees: Legend, Myth, Opportunity

Research Mentor: Gonzalo Giribet
Research Institution: Harvard University
Home Institution: Worcester Polytechnic Institute
Co-Authors: Cody McCoy, Harvard University; Benjamin Goulet-Scott, Harvard University; Hana Kiros, Harvard University; Gonzalo Giribet, Harvard University

ES

Baynes, Annaya4:05 p.m., Breakout 15

The Heart of Etheria: Queer Love as Healing in She-Ra and the Princesses of Power

Research Mentor: Julia Crawford
Research Institution: Columbia University
Home Institution: Spelman College
Co-Author: Julie Crawford, Columbia University

HU

Beato, Eunice5:05 p.m., Breakout 13

Quantum Fluctuations In Gravitational Waves

Research Mentor: Mark Hertzberg
Research Institution: Tufts University
Home Institution: Wellesley College
Co-Authors: Mark Hertzberg, Tufts University; Andi Gray, Tufts University

PS

Beverly, Taylor4:05 p.m., Breakout 13

Measuring Phosphorescence using a Home-Built Educational Transient Absorption Apparatus

Research Mentor: W.E. Moerner
Research Institution: Stanford University
Home Institution: Spelman College
Co-Authors: Peter D. Dahlberg, Stanford University School of HU & Sciences; Davis Perez, Stanford University School of HU & Sciences; Annina M. Sartor, Stanford University School of HU & Sciences; W. E. Moerner, Stanford University School of HU & Sciences; Dannielle G. McCarthy, Stanford University School of HU & Sciences

PS

Bonilla Garcia, Xavier4:50 p.m., Breakout 10

The Navajo Nation: A Closer Look Into Traditional Medicine's Potential to Treat Common Diseases In The Community

Research Mentor: Don Carlos Brunson
Research Institution: Vanderbilt University
Home Institution: University of Puerto Rico-Mayaguez
Co-Author: Don Carlos Brunson, Vanderbilt University

AB

Presentation Categories

AB **Applied Biosciences**
Molecular Processes and Genetics, Biochemistry

BB **Basic Biosciences**
Human Biology & Disease, Public Health, Biomedical Engineering

EN **Engineering**
Mechanical, Electrical & Materials Engineering

ES **Earth Science**
Environment Sciences, Geosciences, Marine Sciences

HU **Humanities**
Literature, Language Arts, History, Media

PE **Policy & Ethics**
Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS **Physical Science**
Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS **Social Science**
Sociology, Economics, Psychology, and Behavior Sciences

Breault, David.....4:50 p.m., Breakout 9*Let's get Groovy! Evolution of Costal Grooves in Salamanders*

Research Mentor: Sofia Prado-Irwin
 Research Institution: Harvard University
 Home Institution: Edinboro University of Pennsylvania
 Co-Authors: Sofia Prado-Irwin, Harvard University;
 Jonathan Losos, Harvard University

ES**Brennan, Liam**.....4:35 p.m., Breakout 12*Creating a Deep Sea Cesium Atomic Clock*

Research Mentor: Leo Hollberg
 Research Institution: Stanford University School of HU & Sciences
 Home Institution: University of Florida
 Co-Author: Leo Hollberg, Stanford University School of HU & Sciences

PS**Bruce, Olivia**.....5:05 p.m., Breakout 12*Modeling The Beam Path For A Variable Spacing Optical Lattice*

Research Mentor: Peter Schauss
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Author: Peter Schauss, University of Virginia

PS**Carrero Mustelier, Emily**.....4:05 p.m., Breakout 12*Measuring the Structure of the Lithosphere Beneath Nicaragua with Seismic Waves*

Research Mentor: Karen Fischer
 Research Institution: Brown University
 Home Institution: Columbia University
 Co-Authors: Isabella Gama, Brown University; Karen M. Fischer, Brown University

ES**Crusius, Helena**.....4:20 p.m., Breakout 20*Bear with Me: Parallel Projects of Interlocutor Understanding in Aristophanes and Plato*

Research Mentor: Stephen Kidd
 Research Institution: Brown University
 Home Institution: Bryn Mawr College
 Co-Author: None, Brown University

HU**De La Cruz, Franklin**.....4:35 p.m., Breakout 19*Policing Bodies: The State and Queer Radicals*

Research Mentor: Kimuli Kasara
 Research Institution: Columbia University
 Home Institution: Williams College
 Co-Author: Kimuli Kasara, Columbia University

SS**Evans, Zaria**.....4:35 p.m., Breakout 9*Elucidating the Extent of Semivolatile Compound Removal from Indoor Environments before Emission to Outdoor Environments*

Research Mentor: Stephanie Jackvony
 Research Institution: Weill Cornell Graduate School
 Home Institution: Dillard University
 Co-Author: Stephanie Jackvony, Weill Cornell Graduate School

ES**Ferrer Imbert, Genesis**.....4:20 p.m., Breakout 13*DNA-Binding Protein's Ability to Search and Target Lesion Site on DNA due to Chromatin Dynamics*

Research Mentor: Loren Hough
 Research Institution: University of Colorado Boulder
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Loren Hough, University of Colorado Boulder; Jeffrey Dunagin, University of Colorado Boulder

PS**Fraij, Jenel**.....4:35 p.m., Breakout 13*Computing via Chemical Reaction Networks Described by Differential Equations*

Research Mentor: Brenda Rubenstein
 Research Institution: Brown University
 Home Institution: University of California-Los Angeles
 Co-Authors: Jenel Fraij, Brown University; Brenda Rubenstein, Brown University

PS**Gilkyson, Nina**.....4:50 p.m., Breakout 12*Modeling the physical response of magma chambers to caldera collapse*

Research Mentor: Christian Huber
 Research Institution: Brown University
 Home Institution: Mount Holyoke College
 Co-Author: Christian Huber, Brown University

ES

Gomes, Lucas5:05 p.m., Breakout 9*A massive North Atlantic flood caused drought in equatorial Africa*

Research Mentor: James Russell
 Research Institution: Brown University
 Home Institution: University of California-Berkeley
 Co-Authors: James Russell, Brown University; Sloane Garelick, Brown University

ES**Guadalupe, Isis**4:05 p.m., Breakout 10*Surface Chlorophyll Variability in the Southern Ocean*

Research Mentor: Isis Guadalupe
 Research Institution: University of Colorado Boulder
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Author: Nicole Lovenduski, University of Colorado Boulder

ES**Haque, Onyul**4:50 p.m., Breakout 16*Is Talk Cheap? A Willingness to Pay Investigation of Social Group Attitude Importance*

Research Mentor: Mina Cikara
 Research Institution: Harvard University
 Home Institution: University of Michigan-Ann Arbor
 Co-Authors: Joshua Cetron, Harvard University; Mina Cikara, Harvard University

SS**Hart, Ashley**4:35 p.m., Breakout 11*Hard Problems, Easy Solutions*

Research Mentor: Matthew Dwyer
 Research Institution: University of Virginia
 Home Institution: University of Central Florida
 Co-Authors: Matthew Dwyer, University of Virginia; Mitchell Gerrard, University of Virginia; Soneya Binta Hossain, University of Virginia

PS**Hayden, Matthew**4:35 p.m., Breakout 20*Coding and the Classics: Where the Future of Classics is Headed*

Research Mentor: Marie-Claire Beaulieu
 Research Institution: Tufts University
 Home Institution: Howard University
 Co-Authors: Marie-Claire Beaulieu, Tufts University; Zachary Fletcher, Tufts University

HU**Hersey-Powers, Peeper**4:50 p.m., Breakout 20*"Would that I were not (a woman)": Trans Potential in Ovid's Iphis Episode*

Research Mentor: Pauline LeVen
 Research Institution: Brown University
 Home Institution: Pomona College
 Co-Author: Pauline LeVen, Yale University

HU**Iniguez, Guadalupe**4:05 p.m., Breakout 16*"Crisis on the Reservation: The Impact of COVID-19 and underlying factors on the Navajo People"*

Research Mentor: Don Carlos Brunson
 Research Institution: Vanderbilt University
 Home Institution: Heritage University
 Co-Authors: Emma Keller, Vanderbilt University; Belinda Joseph, Vanderbilt University; Brandon Woolman, Vanderbilt University

AB**Jackson, Mitchell**4:05 p.m., Breakout 18*Maintaining The Navajo Nations Mental Wellbeing And Language.*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Tiffany Sidders, Vanderbilt University; Reina Luna, Vanderbilt University; Jordan Miller, Vanderbilt University

SS**Jaramillo, Kara**4:20 p.m., Breakout 12*Modeling the Seismic Wave Velocity of Mars*

Research Mentor: Karen Fischer
 Research Institution: Brown University
 Home Institution: College of the Holy Cross
 Co-Author: Karen Fischer, Brown University

ES**Jones, Klyn**4:05 p.m., Breakout 20*Rescuplting Classics with digital HU and diversity in mind*

Research Mentor: Marie-Claire Beaulieu
 Research Institution: Tufts University
 Home Institution: Howard University
 Co-Authors: Beaulieu, Marie-Claire, Tufts University

HU

Joseph, Belinda5:05 p.m., Breakout 18*"The Design of The Navajo Nation's Land From an EN Perspective to Decrease Health Disparities"*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: University of Central Florida
 Co-Author: Don Brunson, Vanderbilt University

EN**Kazlyna, Aneka**5:05 p.m., Breakout 20*At the Intersection of Astro-Medicine: Ibn Sina's Canon of Medicine and the Transmission of Medical Knowledge to Europe*

Research Mentor: Elaine Van Dalen
 Research Institution: Columbia University
 Home Institution: Bowdoin College
 Co-Author: Elaine Van Dalen, Columbia University

HU**Keller, Emma**4:20 p.m., Breakout 17*The Past is Still Very Much Present: A Cognizant Analysis of the Continued Oppression of the Navajo Nation in the COVID-19 Era*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: University of Virginia
 Co-Author: Don Brunson, Vanderbilt University

HU**Lawrence, Sara**4:35 p.m., Breakout 15*Break A Leg!: An Analysis of Queer Performance Art as a Form of Resistance*

Research Mentor: Sarah Hernandez
 Research Institution: Xavier University of Louisiana
 Home Institution: Spelman College
 Co-Author: Sarah Hernandez, Xavier University of Louisiana

HU**Leon, Enrique**5:05 p.m., Breakout 14*Dihedral Group Actions On Projective Space*

Research Mentor: Agnes Beaudry
 Research Institution: University of Colorado Boulder
 Home Institution: DePaul University
 Co-Author: Agnes Beaudry, University of Colorado Boulder

PS**Luna, Reina**4:35 p.m., Breakout 16*The Critical Components of Indigenous Cultures with The Navajo Nation.*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: Heritage University
 Co-Authors: Don Carlos Brunson, Vanderbilt University;
 Mitchell Jackson, Vanderbilt University; Jordan Miller,
 Vanderbilt University; Tiffany Sidders, Vanderbilt
 University

SS**Lynch, Arthur**4:35 p.m., Breakout 10*Using quantitative computational methods to analyse form and function of cephalic shield design in Ostracoderms.*

Research Mentor: Rudy Lerosey-Aubril
 Research Institution: Harvard University
 Home Institution: Dartmouth College
 Co-Authors: Rudy Lerosey-Aubril, Harvard University;
 Stephen Pates, Harvard University; Javier Ortega-
 Hernandez, Harvard University

ES**Malik, Adeela**4:50 p.m., Breakout 11*Detector Resolution Impact on Supernova Neutrino Detection in the Deep Underground Neutrino Experiment (DUNE)*

Research Mentor: Hirohisa Tanaka
 Research Institution: Stanford University School of HU &
 Sciences
 Home Institution: The University of Texas at San Antonio
 Co-Authors: Hirohisa Tanaka, Stanford University School
 of HU & Sciences; Yun-Tse Tsai, Stanford University
 School of HU & Sciences; Yen-Hsun Lin, Stanford
 University School of HU & Sciences

PS**Mason-Hogans, Akanke**5:05 p.m., Breakout 10*The Navajo Nation: A Look at the Effects of Food Insecurity and Food Access on the Coronavirus Pandemic*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: North Carolina A & T State University
 Co-Author: Don Brunson, Vanderbilt University

PS

Méndez, Adriana4:35 p.m., Breakout 17

The Navajo Nation: Taking on the Pandemic of Covid-19 through the Education of Appropriation and Appreciation.

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Author: Don Brunson, Vanderbilt University

SS

Miller, Anabella4:20 p.m., Breakout 9

Investigating the Relationship Between Urbanization and Fire Blight on Apple Trees at a Landscape Level

Research Mentor: Julian Resasco
 Research Institution: University of Colorado Boulder
 Home Institution: New Mexico Highlands University
 Co-Authors: Julian Resasco, University of Colorado Boulder; Katharine Suding, University of Colorado Boulder

ES

Miller, Jordan4:20 p.m., Breakout 16

The Offsetting of the High Rates of Cardiovascular Disease & Diabetes in the Navajo Nation via Implementation of Healthier Food in Native Diet

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: North Carolina A & T State University
 Co-Authors: Mitchell Jackson, Vanderbilt University; Tiffany Sidders, Vanderbilt University; Reina Luna, Vanderbilt University

AB

Moczygemba, Cole4:20 p.m., Breakout 14

Investigating Tracking Algorithms Employed In The Tracking Machine Learning Challenge

Research Mentor: Lauren Tompkins
 Research Institution: Stanford University School of HU & Sciences
 Home Institution: The University of Texas at San Antonio
 Co-Authors: Lauren Tompkins, Stanford University; Rocky Bala Garg, Stanford University; Peter Chatain, Stanford University

PS

Nasrollahi, Tania4:05 p.m., Breakout 19

Iranian-Americans and Ethnic Boundary Making

Research Mentor: Shamus Khan
 Research Institution: Columbia University
 Home Institution: University of California-Los Angeles
 Co-Author: Shamus Khan, Columbia University

SS

Neerchal, Siri5:05 p.m., Breakout 16

Exploring the Multidimensionality of Gender Attitudes with a Flexible Latent Class Analysis Approach

Research Mentor: Susan Short
 Research Institution: Brown University
 Home Institution: University of Maryland-Baltimore County
 Co-Author: Susan Short, Brown University

SS

Nguyen, Kelly5:05 p.m., Breakout 17

Taboo Topics in the Workplace: Benefits and Risks of Sensitive Conversations

Research Mentor: Maurice Schweitzer
 Research Institution: University of Pennsylvania
 Home Institution: California State Polytechnic University-Pomona
 Co-Authors: Einav Hart, University of Pennsylvania; Eric VanEpps, University of Pennsylvania; Maurice Schweitzer, University of Pennsylvania

SS

Ofonedu, Brian4:35 p.m., Breakout 14

Incremental Learning with Generalized Additive Models for Climate Analysis

Research Mentor: Jianwu Wang
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Catholic University of America
 Co-Authors: Jianwu Wang, University of Maryland, Baltimore County; Pei Guo, University of Maryland, Baltimore County

PS

Otebele, Osarugue.....4:20 p.m., Breakout 15*Signs of Erasure: The Trivialization of Women's Organizing in Nollywood's August Meeting*

Research Mentor: Allyson Field
 Research Institution: University of Chicago
 Home Institution: Spelman College
 Co-Author: Allyson Field, University of Chicago

HU**Patel, Suraj.....4:20 p.m., Breakout 18***"The Navajo Nation: Providing Mental Health Resources and Support for an Underrepresented Population during the time of COVID-19"*

Research Mentor: Don Carlos Brunson
 Research Institution: Vanderbilt University
 Home Institution: University of Virginia
 Co-Author: Don Carlos Brunson, Vanderbilt University

SS**Pioche-Lee, Durante4:05 p.m., Breakout 14***Incorporation of Functionalized Decellularization Bovine Bone into PEGDA Scaffolds*

Research Mentor: Durante Pioche-Lee
 Research Institution: Harvard University
 Home Institution: University of New Mexico-Main Campus
 Co-Authors: Christina Salas, University of New Mexico; Matthew Rush, University of New Mexico; Marissa Perez, University of New Mexico; Emma Garcia, University of New Mexico

EN**Rezk, John.....4:50 p.m., Breakout 13***Discovery Enabled by Total Synthesis of Natural Products*

Research Mentor: Noah Burns
 Research Institution: Stanford University
 Home Institution: Princeton University
 Co-Author: Noah Burns, Stanford University

PS**Roy, Bryahna5:05 p.m., Breakout 19***ATL: Intersections of Race, Queerness, and Homelessness*

Research Mentor: Shantá Robinson
 Research Institution: University of Chicago
 Home Institution: Spelman College
 Co-Author: Shantá R. Robinson, University of Chicago

SS**Saslow, James4:05 p.m., Breakout 11***The Role of Tilt in Colloidal Membranes*

Research Mentor: Thomas Powers
 Research Institution: Brown University
 Home Institution: San Jose State University
 Co-Authors: Thomas Powers, Brown University; Lijie Ding, Brown University; Robert Pelcovits, Brown University

PS**Schmidt, Jason.....4:35 p.m., Breakout 18***The Navajo Nation: Understanding How A Lack of Music Creation Has Psychological Repercussions*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: Stetson University
 Co-Author: Don Brunson, Vanderbilt University

SS**Sidders, Tiffany4:05 p.m., Breakout 17***Looking for the Future of the Navajo by Looking at the Past*

Research Mentor: Don Brunson
 Research Institution: Vanderbilt University
 Home Institution: University of Central Florida
 Co-Authors: Don Brunson, Vanderbilt University; Christina Keeton, Vanderbilt University

HU**Tesfai, Rita.....5:05 p.m., Breakout 15***The Melody of Rebellion: Sonic Agency, Cultural Memory, and the Music of the Kel Tamasheq*

Research Mentor: Travis Jackson
 Research Institution: University of Chicago
 Home Institution: University of California-Riverside
 Co-Author: Travis Jackson, University of Chicago

HU

Tineo, Matthew4:50 p.m., Breakout 17

The Social Perception of Shy and Outgoing Individuals

Research Mentor: Fan Yang
Research Institution: University of Chicago
Home Institution: University of the Pacific
Co-Author: Fan Yang, University of Chicago
SS

Villalona, Chantaly4:20 p.m., Breakout 10

Comparison of PFAS Removal From Drinking Water Sources by Activated Carbons

Research Mentor: Kurt Pennell
Research Institution: Brown University
Home Institution: Wellesley College
Co-Author: Kurt Pennell, Brown University
EN

Villasana, Alison4:50 p.m., Breakout 19

Redevelop, Relocate, Remove: Investigating Temporary Relocation as Redevelopment Harassment at Clarendon Hill Housing Authority in Somerville, MA

Research Mentor: Shomon Shamsuddin
Research Institution: Tufts University
Home Institution: The University of Texas at Austin
Co-Author: Alison Villasana, Tufts University
SS

Vu, Jason4:20 p.m., Breakout 19

A Movement Across Borders: Diasporic Resistance in the Fight Against Southeast Asian Deportation

Research Mentor: Evelyn Hu-DeHart
Research Institution: Brown University
Home Institution: University of California-Los Angeles
Co-Author: Evelyn Hu-DeHart, Brown University
HU

Wiggins, Arielle4:50 p.m., Breakout 15

Black Women In Contemporary Television: Who Tells Their Stories?

Research Mentor: Shayoni Mitre
Research Institution: Columbia University
Home Institution: Claflin University
Co-Author: Shayoni Mitra, Columbia University
HU

Williams, Lorryya4:50 p.m., Breakout 14

Mining Medical Images for Deep Learning

Research Mentor: Lorryya Williams
Research Institution: University of Maryland, Baltimore County
Home Institution: Calvin College
Co-Author: Sanjay Purushotham, University of Maryland, Baltimore County
PS

Woolman, Brandon4:50 p.m., Breakout 18

A Culturally Sensitive Approach To Alleviating Psychological Stressors On The Navajo Nation During The COVID-19 Outbreak

Research Mentor: Alexandra Armstead
Research Institution: Vanderbilt University
Home Institution: The College of Wooster
Co-Author: Don Carlos Brunson, Vanderbilt University
SS

Oral Presentations

Saturday, August 1

Anqueira, Amanda 4:00 p.m., Breakout 23

The Molecular Mechanisms of Ethanol Neuroadaptation

Research Mentor: Catherine Peña
Research Institution: Princeton University
Home Institution: University of Puerto Rico-Rio Piedras
Co-Authors: Alfredo Ghezzi-Grau, Princeton University;
Nicolás Fuenzalida-Urbe, Princeton University

AB

Appleton, Andrea 3:15 p.m., Breakout 29

*Genetic architecture of inflorescence height in two species of *Aquilegia* (columbine) with contrasting ecologies*

Research Mentor: Molly Edwards
Research Institution: Harvard University
Home Institution: Georgia Southern University
Co-Authors: Molly Edwards, Harvard University; Elena M. Kramer, Harvard University; Evangeline S. Ballerini, Sacramento State University

AB

Arabic, Bethany 3:00 p.m., Breakout 22

Investigating how Expression of the Manganese Transporter Slc30a10 Contributes to Colorectal Cancer

Research Mentor: Thomas Bartnikas
Research Institution: Brown University
Home Institution: Simmons College
Co-Author: Thomas Bartnikas, Brown University

AB

Arboniés, Valeria 4:00 p.m., Breakout 28

Duplicating Resonance: From Illegal Photocopying to Open Access in the Ecosystems of Knowledge

Research Mentor: Dennis Tenen
Research Institution: Columbia University
Home Institution: University of Puerto Rico Río Piedras Campus
Co-Author: Dennis Tenen, Columbia University

HU

Arita-Escalante, Jose 5:00 p.m., Breakout 27

Bending of Light In Exoplanet Atmospheres

Research Mentor: Phil Arras
Research Institution: University of Virginia
Home Institution: Virginia Commonwealth University
Co-Author: Phil Arras, University of Virginia

PS

Arnold, Sarah 4:00 p.m., Breakout 29

*Identifying Conserved Structure of Non-coding RNAs in *Drosophila melanogaster* as an Indication of Possible Function*

Research Mentor: Elena Rivas
Research Institution: Harvard University
Home Institution: College of the Holy Cross
Co-Authors: Elena Rivas, Harvard University; William Gao, Harvard University

AB

Presentation Categories

AB **Applied Biosciences**
Molecular Processes and Genetics, Biochemistry

BB **Basic Biosciences**
Human Biology & Disease, Public Health, Biomedical Engineering

EN **Engineering**
Mechanical, Electrical & Materials Engineering

ES **Earth Science**
Environment Sciences, Geosciences, Marine Sciences

HU **Humanities**
Literature, Language Arts, History, Media

PE **Policy & Ethics**
Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS **Physical Science**
Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS **Social Science**
Sociology, Economics, Psychology, and Behavior Sciences

Auguste, Kinga.....4:30 p.m., Breakout 25*The Role of Actin-Binding Protein HCLS1 in Neutrophil Stiffening*

Research Mentor: Craig Lefort
 Research Institution: Brown University
 Home Institution: University of Massachusetts-Boston
 Co-Authors: Craig Lefort, Brown University; Brittany Neumann, Brown University

AB**Banks, Kaiyla.....5:00 p.m., Breakout 28***Environmental Racism and Inequality: How the Home Owners Loan Corporation Decided the Social Economic and Political Fate of Black Americans from the 1930s to the Present*

Research Mentor: Emmerich Davies
 Research Institution: Harvard University
 Home Institution: University of Pennsylvania
 Co-Author: Emmerich Davies, Harvard University

PE**Barreto, Amanda.....4:30 p.m., Breakout 21***“Computational Analysis of Morphological Features of Glioblastoma Cells on Different Stiffness Substrates”*

Research Mentor: Deok-Ho Kim
 Research Institution: Johns Hopkins University
 Home Institution: Florida International University
 Co-Authors: Devin B. Mair, Johns Hopkins University; Deok-Ho Kim, Johns Hopkins University

AB**Barrientos Gilberto.....4:30 p.m., Breakout 27***Trust and Security of Embedded Electronics Systems in Worldwide Pandemic Vaccination and Logistics*

Research Mentor: James Lambert
 Research Institution: University of Virginia
 Home Institution: George Mason University
 Co-Author: James Lambert, University of Virginia

EN**Bartholomew, Brazil.....3:00 p.m., Breakout 23***Applications of a Bioluminescence Database: Utilizing Engram Mapping for Alzheimer’s Research*

Research Mentor: Christopher Moore
 Research Institution: Brown University
 Home Institution: University of California-Los Angeles
 Co-Authors: Priscilla Louis, Brown University; Cameron MacIntyre, Brown University; Rochelle van der Merwe, Brown University; Mia Roberts, Brown University; Nina Friedman, Brown University

AB**Beyene, Eden.....3:15 p.m., Breakout 27***Identification and Functional Validation of EGFR Missense Variants*

Research Mentor: Eden Beyene
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Tikvah Hayes, Harvard University Div. of Medical Sciences; Matthew Meyerson, Harvard University Div. of Medical Sciences

AB**Bozeman, Jamie.....3:00 p.m., Breakout 21***Protein Expression Changes in the Left Ventricle in Pulmonary Hypertension*

Research Mentor: Gaurav Choudhary
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Alexander Vang, Brown University; Peng Zhang, Brown University; Gaurav Choudhary, Brown University

AB**Burnett, Kiana.....4:30 p.m., Breakout 23***Confirming the extent of Parkinsonian symptoms in a mouse model by correlating striatal dopamine loss with motor impairment*

Research Mentor: Daniel McGehee
 Research Institution: University of Chicago
 Home Institution: The University of Texas at El Paso
 Co-Authors: Chandrika Abburi, University of Chicago; Dr. Daniel McGehee, University of Chicago

AB

Campos, Edward.....3:00 p.m., Breakout 27*Consequences of BRCA2 germline mutation in ER+ breast cancer*

Research Mentor: Michael Oliphant
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Lindenwood University
 Co-Authors: Michael Oliphant, Harvard University Div. of Medical Sciences; Joan S. Brugge, Harvard University Div. of Medical Sciences

AB**Carter, Aiyana.....4:15 p.m., Breakout 23***Learning the fate of our dendritic cells with an algorithm*

Research Mentor: Thais Klevorn
 Research Institution: Weill Cornell Graduate School
 Home Institution: SUNY Oneonta
 Co-Author: Thais Klevorn, Weill Cornell Graduate School

AB**Ceja, Alexis.....4:15 p.m., Breakout 28***Emotion Contagion in Online News Comment Threads Across Topics*

Research Mentor: Jeanne Tsai
 Research Institution: Stanford University
 Home Institution: San Francisco State University
 Co-Authors: Tiffany Hsu, Stanford University; Jeanne Tsai, Stanford University

SS**Conde, Yvette.....3:45 p.m., Breakout 28***Educational Expansion and the Inequality of Educational Opportunity: A Look Into the UC system*

Research Mentor: Michelle Jackson
 Research Institution: Stanford University School of HU & Sciences
 Home Institution: California State University-San Marcos
 Co-Authors: Michelle V. Jackson, Stanford University School of HU & Sciences; Rebecca Gleit, Stanford University

SS**Cordero-Cruz, Rosa3:45 p.m., Breakout 30***Rape Estupro or Rapto: Colonialism Sexuality and Violence from Late Nineteenth to Early Twentieth Century Puerto Rico*

Research Mentor: Nara Milanich
 Research Institution: Columbia University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Author: Nara Milanich, Columbia University

HU**Cruz Rosa, Ezequiel.....3:15 p.m., Breakout 21***Next Gen Sequencing in a Murine Model of ARDS*

Research Mentor: Alfred Ayala
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Alfred Ayala, Brown University; Brandon Armstead, Brown University

AB**Cruz, Joriam4:15 p.m., Breakout 29***Mitochondrial Proteomics as a Tool to Study a Sodium Sensing DNA Nanodevice*

Research Mentor: Yamuna Krishnan
 Research Institution: University of Chicago
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Yamuna Krishnan, University of Chicago; Hellen Tomasson, University of Chicago

AB**Delcourt, Amelie4:00 p.m., Breakout 26***Investigating the Role of mTORC1 Signaling in Coenzyme A Biosynthesis*

Research Mentor: Christian Dibble
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: University of California-Los Angeles
 Co-Authors: Christian Dibble, Harvard University Div. of Medical Sciences; Sam Barritt, Harvard University Div. of Medical Sciences

AB

Dixon, Victor3:30 p.m., Breakout 30

A comparison of the Backgrounds of American Business Elites and US Military Generals in the year 1975.

Research Mentor: Luigi Zingales
 Research Institution: University of Chicago
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Luigi Zingales, University of Chicago; David Lever, University of Chicago

SS

Dozier, Layla4:15 p.m., Breakout 31

Black Wombs Matter: Black Women's Medical Erasure During Birth.

Research Mentor: Amy Zhou
 Research Institution: Columbia University
 Home Institution: Bates College
 Co-Authors: Brendane Arrica Tynes, Columbia University

SS

Eckhardt, Joanna4:30 p.m., Breakout 26

Mapping Circuitry Underlying Visual Patterning of Courtship Song in Drosophila

Research Mentor: Mala Murthy
 Research Institution: Princeton University
 Home Institution: University of Arizona
 Co-Authors: Mala Murthy, Princeton University; Nivedita Rangarajan, Princeton University; Xinping Li, Princeton University

AB

Efrat, Daniella3:30 p.m., Breakout 28

Reducing Racial Gaps in Academic Performance: The Role of Relative Self-Efficacy and Sense of Belonging

Research Mentor: Josipa Roksa
 Research Institution: University of Virginia
 Home Institution: University of California-Los Angeles
 Co-Authors: Josipa Roksa, University of Virginia; Christopher Lee Williams, University of Virginia

SS

Farah Carbi, Marina3:00 p.m., Breakout 29

Diversification of Anolis opalinus in Jamaica

Research Mentor:
 Research Institution: Weill Cornell Graduate School
 Home Institution: Cornell University
 Co-Authors: Mervin Fansler, Weill Cornell Graduate School; Edward Myers, Weill Cornell Graduate School

AB

Floeder, Joseph3:30 p.m., Breakout 23

Control of Reward-Processing Behaviors in Mice: Role of Projection from Basolateral Amygdala to Nucleus Accumbens

Research Mentor: Benjamin Samuels
 Research Institution: Princeton University
 Home Institution: Fordham University
 Co-Authors: Andrew Dieterich, Princeton University; Benjamin Samuels, Princeton University

AB

François, John3:45 p.m., Breakout 21

The Effects of Doxorubicin on Endothelial Cells of The Cardiovascular System

Research Mentor: Guillermo Garcia-Cardeña
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: CUNY John Jay College of Criminal Justice
 Co-Authors: Dr. Guillermo Garcia-Cardeña, Harvard University Div. of Medical Sciences

AB

Franklin, Brevin3:15 p.m., Breakout 30

The Role of Fraternities in the Success of the American Business Elite: 1900-2015

Research Mentor: Brevin Franklin
 Research Institution: University of Chicago
 Home Institution: University of Maryland-Baltimore County
 Co-Author: Luigi Zingales, University of Chicago

SS

Garrett, Shedrick.....4:45 p.m., Breakout 28

Examining Black and White college students' experiences with online racial discrimination: A qualitative analysis

Research Mentor: Noelle Hurd
 Research Institution: University of Virginia
 Home Institution: West Virginia University
 Co-Authors: Janelle Billingsley, University of Virginia;
 Noelle Hurd, University of Virginia

SS

Gheis, Mahey.....4:45 p.m., Breakout 30

Coalition-Building between Black Radical Groups and Palestinian Liberation Groups.

Research Mentor: Shamus Khan
 Research Institution: Columbia University
 Home Institution: Wesleyan University
 Co-Author: Shamus Khan, Columbia University

SS

Gould, Hailey.....3:15 p.m., Breakout 24

BC200 the link between structure function and implications in neurodegenerative diseases

Research Mentor: Kimberly Berg
 Research Institution: Harvard University
 Home Institution: SUNY at Fredonia
 Co-Authors: Kimberly Berg, Harvard University; Victoria D'Souza, Harvard University

AB

Grant, Jazmine.....3:15 p.m., Breakout 23

Dual Orexin Receptor Antagonism For Reducing Oxycodone-Evoked Behavior in the Locus Coeruleus

Research Mentor: Susan Lin
 Research Institution: Weill Cornell Graduate School
 Home Institution: Howard University
 Co-Author: Susan Lin, Weill Cornell Graduate School

AB

Graves, Sarah.....3:45 p.m., Breakout 31

A Comparative Inquiry into State Response to COVID-19 in South America

Research Mentor: Tom Ginsburg
 Research Institution: University of Chicago
 Home Institution: Hanover College
 Co-Author: Tom Ginsburg, University of Chicago

PE

Grayson, Jalen.....3:15 p.m., Breakout 31

Analysis of Gameplay and Neural Systems to Determine the Effect of Income Inequality on Risky Behaviors.

Research Mentor: Nim Tottenham
 Research Institution: Columbia University
 Home Institution: Morehouse College
 Co-Authors: Nim Tottenham, Columbia University;
 Andrea Fields, Columbia University

SS

Heinzinger, Lauren.....3:15 p.m., Breakout 22

Oxygen and Metabolism: Digesting Determinants of Antibiotic Susceptibility in the Gut

Research Mentor: Peter Belenky
 Research Institution: Brown University
 Home Institution: University at Buffalo
 Co-Authors: Peter Belenky, Brown University; Angus Johnson, Brown University

AB

Henning, Kellen.....4:45 p.m., Breakout 22

Using the BioID Approach to Identify Proteins Interacting with the P0 Protein from Turnip Yellow Virus

Research Mentor: Judith Agudo
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: California State University-Fullerton
 Co-Authors: Melanie Sacco, California State University at Fullerton; Mansour Dughbaj, California State University at Fullerton; Jordan Shoemaker, California State University at Fullerton

AB

Herran, Keren.....4:00 p.m., Breakout 24

Innovative Interventions to Decrease Adolescent Pregnancy in Low and Middle Income Countries (LMIC): A Systematic Review

Research Mentor: Omar Galárraga
 Research Institution: Brown University
 Home Institution: University of Maryland-Baltimore County
 Co-Author: Omar Galárraga, Brown University

AB

Holmes, Jacob **4:45 p.m., Breakout 23***What Mouse Brains Can Tell Us About Detecting Changes In Our Environment*

Research Mentor: Corey Harwell
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Georgia State University
 Co-Author: Jordan Hamm, Georgia State University

AB**Huber, Wyatt** **4:00 p.m., Breakout 30***Santa Muerte: The Skeleton Folk-Saint of Families Protection and the Inevitable*

Research Mentor: Stephan Palmié
 Research Institution: University of Chicago
 Home Institution: Sonoma State University
 Co-Author: Stephan Palmié, University of Chicago

SS**Humphrey, Corin** **3:00 p.m., Breakout 31***Investigating hyperexcitability of medial entorhinal cortex layer II stellate cells in a mouse model of temporal lobe epilepsy*

Research Mentor: Zoé Christenson Wick
 Research Institution: Princeton University
 Home Institution: CUNY Hunter College
 Co-Authors: Zoé Christenson Wick, Princeton University; Tristan Shuman, Princeton University

SS**Jenkins, Danielle** **4:30 p.m., Breakout 28***“A Sis ‘Bout to Drown in These Edges”: Examining the Relationship Between Twitter Capital & AAVE.*

Research Mentor: Shayoni Mitra
 Research Institution: Columbia University
 Home Institution: Spelman College
 Co-Authors: Shayoni Mitra, Columbia University

HU**Jimenez Rivera, Taysha** **3:00 p.m., Breakout 26***Evaluating the KKAY as a New Model for Diabetic Retinopathy*

Research Mentor: Crystal Colon Ortiz
 Research Institution: Columbia University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Crystal Colon Ortiz, Columbia University; Maria Avrutsky, Columbia University; Carol Troy, Columbia University

AB**Johnson, Angus** **3:30 p.m., Breakout 22***Oxygen & Metabolism: Digesting Determinants of Antibiotic Susceptibility in the Gut*

Research Mentor: Angus Johnson
 Research Institution: Brown University
 Home Institution: SUNY at Binghamton
 Co-Authors: Lauren Heinzinger, Brown University; Peter Belenky, Brown University

AB**Johnson, Cassidy** **4:15 p.m., Breakout 26***Identifying Novel Halogenases From Biosynthetic Gene Clusters Containing Halide-Utilizing Enzymes*

Research Mentor: Nathaniel Braffman
 Research Institution: Harvard University
 Home Institution: Vanderbilt University
 Co-Authors: Nathaniel Braffman, Harvard University; Emily Patricia Balskus, Harvard University

AB**Johnson, Linda** **5:00 p.m., Breakout 31***Into the Arena of Symbolic Power: the Decolonial Project of Identity Formation in Afro-Brazilian Women*

Research Mentor: Steven Gregory
 Research Institution: Columbia University
 Home Institution: Reed College
 Co-Authors: Steven Gregory, Columbia University; Brendane Tynes, Columbia University

SS

Kimble, Violet **3:30 p.m., Breakout 29**

Using Protein Binding Microarrays to analyze DNA binding differences of Human Transcription Factor Isoforms

Research Mentor: Kaia Mattioli
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Drew University
 Co-Authors: Kaia Mattioli, Harvard University Div. of Medical Sciences; Sabrina K. Phanor, Harvard University Div. of Medical Sciences; Patrick K. Kimes, Harvard University Div. of Medical Sciences; Sachi Inukai, Harvard University Div. of Medical Sciences; Tong Hao, Harvard University Div. of Medical Sciences

AB**King, Kacey** **4:45 p.m., Breakout 21**

The Role of Apoptosis in Falciparum Malaria

Research Mentor: Jonathan Kurtis
 Research Institution: Brown University
 Home Institution: Georgia State University
 Co-Author: Jonathan Kurtis, Brown University

AB**Koch, Emily** **4:30 p.m., Breakout 29**

Ancient DNA Reveals Relatedness to Modern European Populations and Accurately Identifies Sex of Individuals from Medieval Italy

Research Mentor: Maanasa Raghavan
 Research Institution: University of Chicago
 Home Institution: University of Massachusetts-Amherst
 Co-Author: Maanasa Raghavan, University of Chicago

AB**Lemons, Kendall** **3:45 p.m., Breakout 29**

Construction of Epigenetic Regulatory Networks

Research Mentor: Allegra Hawkins
 Research Institution: Weill Cornell Graduate School
 Home Institution: Vanderbilt University
 Co-Author: Allegra Hawkins, Weill Cornell Graduate School

AB**Louis, Priscilla** **3:00 p.m., Breakout 24**

A Searchable Database of Bioluminescent Molecules and its Properties Discovered Between 1950 and 2003 Toward the Expansion of the Bioluminescent Toolbox

Research Mentor: Christopher Moore
 Research Institution: Brown University
 Home Institution: University of Central Florida
 Co-Authors: Christopher Moore, Brown University; Nina Friedman, Brown University; Justine Allen, Brown University; Brazil Bartholomew, Brown University; Cameron MacIntyre, Brown University

AB**Maldonado Rodríguez, Adrián** **3:15 p.m., Breakout 28**

“Welfare Globalization and Burden-Shifting: The Growth of Household Education Expenditure in Low- and Middle-Income Countries”

Research Mentor: Emmerich Davies
 Research Institution: Harvard University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Shelby Carvalho, Harvard University; Analysia Watley, Harvard University; Emmerich Davies, Harvard University

SS**Mallick, Urmila** **4:00 p.m., Breakout 22**

Bacterial Symbiosis in the Human Oral Microbiome: Combining Metagenomics and Transcriptomics to Identify the Ecology of TM7x in Health and Disease

Research Mentor: Dan Utter
 Research Institution: Harvard University
 Home Institution: Worcester Polytechnic Institute
 Co-Authors: Dan Utter, Harvard University; Colleen Cavanaugh, Harvard University

AB**Martinez, Daniela** **3:45 p.m., Breakout 23**

The Potential Role of MS4A Proteins in the Immune Response of Alzheimer’s Disease

Research Mentor: Kelsey Heavener
 Research Institution: Columbia University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Author: Kelsey Heavener, Columbia University

AB

Marzoratti, Analia5:00 p.m., Breakout 29***The Effect of Soft Skill Focus on Interpersonal Connection Ratings in Virtual Interview Settings***

Research Mentor: Michael Platt
 Research Institution: University of Pennsylvania
 Home Institution: The University of Texas at Dallas
 Co-Authors: Vera Ludwig, University of Pennsylvania;
 Jonathan Scotto, University of Pennsylvania

SS**Melo, Claudia4:45 p.m., Breakout 24*****Investigating the Biochemical Composition and Biological Activity of Compounds Extracted from Alliaceae and Asteraceae***

Research Mentor: Talia Mota
 Research Institution: Weill Cornell Graduate School
 Home Institution: Brooklyn College (CUNY)
 Co-Author: Talia Mota, Weill Cornell Graduate School

AB**Meneses, Paul4:15 p.m., Breakout 25*****Identifying Mislocalized Proteins Linked to Aging and Aging-Related Diseases***

Research Mentor: Alex Soukas
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 Home Institution: CUNY Hunter College
 Co-Authors: Talia Hart, Harvard University Div. of Medical Sciences; Alexander Soukas, Harvard University Div. of Medical Sciences

AB**Merino, Alessandra3:30 p.m., Breakout 26*****Cell Surface Marker Identification of Human Myogenic and Non-myogenic Cells***

Research Mentor: Emanuela Gussoni
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: The University of Texas at El Paso
 Co-Authors: Emanuela Gussoni, Harvard University Div. of Medical Sciences

AB**Mohammed, Aisha5:00 p.m., Breakout 30*****Hidden Profile Task in the Age of Zoom***

Research Mentor: Michael Platt
 Research Institution: University of Pennsylvania
 Home Institution: University of San Francisco
 Co-Authors: Michael Platt, University of Pennsylvania;
 Lana Prieur, University of Pennsylvania; Scott Rennie,
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 of Pennsylvania; Veronica Fenton, University of
 Pennsylvania

SS**Nathoo, Isaac4:45 p.m., Breakout 29*****A Graphical User Interface to Determine the Partition Coefficient of Neutral and Charged Compounds***

Research Mentor: Olaf Andersen
 Research Institution: Weill Cornell Medical College
 Home Institution: Brown University
 Co-Authors: Thasin Peyear, Weill Cornell Medical College;
 Olaf Andersen, Weill Cornell Medical College

AB**Nguyen, Jared4:45 p.m., Breakout 27*****Reproducible Hydrologic Modeling: Overview of Containerization Methods***

Research Mentor: Jonathan Goodall
 Research Institution: University of Virginia
 Home Institution: University of Virginia
 Co-Authors: Young Don Choi, University of Virginia;
 Jonathan Goodall, University of Virginia

EN**Nicks, Lauren4:00 p.m., Breakout 31*****Exploring How Anti-Black Racism and Implicit Biases About Pain Tolerance Contribute to Disproportionate Black Maternal Mortality Rates in the United States***

Research Mentor: Julie Crawford
 Research Institution: Columbia University
 Home Institution: Spelman College
 Co-Author: Julie Crawford, Columbia University

HU

Nwagugo, Favour4:30 p.m., Breakout 22*Effects of Environmental Contamination on Neuronal Development and Function*

Research Mentor: Favour Nwagugo
 Research Institution: Brown University
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Nathan Martin, Brown University; Shannon Martin, Brown University; Jessica Plavicki, Brown University

AB**Ocasio Gracia, Angel4:15 p.m., Breakout 21***Using 3D Models to Understand Blood Fluid Dynamics in Renal Disease Patients*

Research Mentor: Anindita Basu
 Research Institution: University of Chicago
 Home Institution: University of Puerto Rico-Ponce
 Co-Authors: Anindita Basu, University of Chicago; Andrés Moyá-Rodríguez, University of Chicago

AB**Oshagbemi, Josephine3:00 p.m., Breakout 28***Business and Academic Elites: Ethnicity Education and Geographic Region*

Research Mentor: Luigi Zingales
 Research Institution: University of Chicago
 Home Institution: University of Maryland-Baltimore County
 Co-Author: Luigi Zingales, University of Chicago

SS**Pendergrass, Janae'3:30 p.m., Breakout 31***Neurobiological Markers of Autistic Traits in Infants*

Research Mentor: Tobias Grossmann
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Tobias Grossmann, University of Virginia; Jessica Stern, University of Virginia; Cabell Williams, University of Virginia

SS**Pinto Sánchez, Victoria4:00 p.m., Breakout 25***O-GlcNAcylation of histone methyltransferases is fundamental for maintaining pluripotency of embryonic stem cells.*

Research Mentor: Maeva Metz
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Author: Maeva Metz, Weill Cornell Graduate School

AB**Powell, Jerbrea4:15 p.m., Breakout 24***COVID-19 Comorbidities predisposes participants from the Jackson Heart Study to disparate health outcomes.*

Research Mentor: Dexter Lee
 Research Institution: Howard University
 Home Institution: Tougaloo College
 Co-Author: Dexter Lee, Howard University

AB**Pragana, Aja3:45 p.m., Breakout 25***Shifting Sources of the Earliest Embryonic Cerebrospinal Fluid (CSF) Stem Cell Niche*

Research Mentor: Ryann Fame
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Salve Regina University
 Co-Authors: Maria Lehtinen, Harvard University Div. of Medical Sciences; Ryann Fame, Harvard University Div. of Medical Sciences

AB**Ramos-Rolón, Astrid3:30 p.m., Breakout 24***Discovery of molecules utilized by glial cells to repair synapses*

Research Mentor: Gregorio Valdez
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Gregorio Valdez, Brown University; Thomas Taetzsch, Brown University

AB

Ratner, Fallon3:00 p.m., Breakout 25*The Role of HDAC1/2 in Microglial Function During Development*

Research Mentor: Jasmine Fels
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Amsterdam
 Co-Author: Jasmine Fels, Weill Cornell Graduate School
AB

Roberts, Mia4:15 p.m., Breakout 22*The BL-OG Blog: A Preliminary Bioluminescent-Optogenetic (BL-OG) Database Cataloging Bioluminescent Properties For Research Purposes*

Research Mentor: Christopher Moore
 Research Institution: Brown University
 Home Institution: CUNY Hunter College
 Co-Authors: Christopher Moore, Brown University; Brazil Bartholomew, Brown University; Priscilla Louis, Brown University; Cameron MacIntyre, Brown University; Rochelle van der Merwe, Brown University
AB

Robinson, Kyra3:15 p.m., Breakout 26*Comparative Analysis of Acute Myeloid Leukemic Blasts at Diagnosis and through Therapy*

Research Mentor: Patrycja Dubielecka-Szczerba
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Patrycja Dubielecka-Szczerba, Brown University; Diana O. Treaba, Brown University; Dennis Bonal, Brown University
AB

Rodríguez Bonilla, Laura3:45 p.m., Breakout 26*Protein-DNA Interactome of Oxidative-Stress Transcription Factors OxyR1 and OxyR2 in *Aliivibrio fischeri**

Research Mentor: Jose Rodriguez Martinez
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Author: Jose Rodriguez Martinez, Weill Cornell Graduate School
AB

Rull, Mateo4:45 p.m., Breakout 26*Tongue kinematics during feeding and vocalization in rhesus monkeys*

Research Mentor: Callum Ross
 Research Institution: University of Chicago
 Home Institution: University of Massachusetts-Lowell
 Co-Authors: J.D. Laurence-Chasen, University of Chicago; Callum. F. Ross, University of Chicago
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Silver-Beck, Noah4:00 p.m., Breakout 27*The Role of Mitophagy in the Progression of Pancreatic Cancer*

Research Mentor: Urszula Wasko
 Research Institution: Columbia University
 Home Institution: Rockland Community College
 Co-Author: Urszula Wasko, Columbia University
AB

Simmonds, Faith3:15 p.m., Breakout 25*Pathway Analysis of Mono-(2-ethylhexyl) Phthalate Mediated Signaling Disruptions in Fetal Mouse Testis*

Research Mentor: Daniel Spade
 Research Institution: Brown University
 Home Institution: Howard University
 Co-Authors: Maha Alhasnani, Brown University; Daniel Spade, Brown University
AB

Solorzano, Chayanne3:30 p.m., Breakout 27*Examination of the Activation and Inhibition of T Immune Cells for Cancer Immunotherapy*

Research Mentor: Adrienne Cohen
 Research Institution: Columbia University
 Home Institution: University of Houston
 Co-Author: Adrienne Cohen, Columbia University
AB

Soto, Jose.....3:30 p.m., Breakout 25***Identifying Vacuoles In Human Pre-implantation Embryos To Improve The Selection Process In IVF***

Research Mentor: Brian Leahy
 Research Institution: Harvard University
 Home Institution: University of California-Riverside
 Co-Authors: Brian Leahy, Harvard University; Helen Yang, Harvard University; Liz Cam, Harvard University; Daniel Needleman, Harvard University

AB**Soto, Samantha3:45 p.m., Breakout 24*****Fiber Photometric Recording of Rat Pre-Limbic Medial Prefrontal Cortex Activity in a Conflict Model of Cocaine Self-Administration***

Research Mentor: Michael Saddoris
 Research Institution: University of Colorado Boulder
 Home Institution: Baylor University
 Co-Authors: Michael Saddoris, University of Colorado Boulder; Kyle Brown, University of Colorado Boulder

AB**Tabor, Jasmine4:30 p.m., Breakout 31*****Roadkill Roaches Red Beans and Rice: Notes on the (Im)possibility of Black Women's Healing***

Research Mentor: Julie Iromuanya
 Research Institution: University of Chicago
 Home Institution: Spelman College
 Co-Author: Julie Iromaunya, University of Chicago

HU**Thompson, Otiana4:30 p.m., Breakout 30*****The Black Agenda: How We Prioritize Our Demands***

Research Mentor: Sarah Hernandez
 Research Institution: Xavier University of Louisiana
 Home Institution: Claflin University
 Co-Author: Sarah Hernandez, Xavier University of Louisiana

HU**Times, Amora.....3:00 p.m., Breakout 30*****The Impact of Shelby v. Holder on Minority Candidates: Did Shelby Change Who Wins?***

Research Mentor: Stephen Ansolabehere
 Research Institution: Harvard University
 Home Institution: Prairie View A & M University
 Co-Author: Steven Ansolabehere, Harvard University

PE**Tucker, Aja4:00 p.m., Breakout 21*****Evaluating Bioengineered Stem-Cell Derived Extracellular Vesicles in The Treatment of Cardiovascular Diseases***

Research Mentor: Ruhul Abid
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Catherine Karbasiafsha, Brown University; Rayane B. Teixeira, Brown University; Frank W. Sellke, Brown University; M. Ruhul Abid, Brown University

AB**Velázquez Díaz, Pamela3:30 p.m., Breakout 21*****Pulmonary Fibrosis in Hermansky-Pudlak Syndrome***

Research Mentor: Yang Zhou
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Humacao
 Co-Author: Yang Zhou, Brown University

AB**Vera, Antonio.....4:30 p.m., Breakout 24*****Association of Poverty and Medicaid Expansions with COVID-19 Cases Mortality and Hospitalizations Across United States Counties***

Research Mentor: Hank Wu
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Wen-Chih Wu, Brown University; Tsikata Apenyo, Brown University; Waynesha Blaylock, Brown University; Tracey Taviera, Brown University

AB

Victor, Kimberly **4:45 p.m., Breakout 31***Addressing Racism: from the Police Department to the Classroom*

Research Mentor: Jennifer Eberhardt
 Research Institution: Stanford University
 Home Institution: Cornell University
 Co-Authors: MarYam Hamedani, Stanford University;
 Jennifer Eberhardt, Stanford University; Rebecca Hetey,
 Stanford University; Maggie Perry, Stanford University;
 Hazel Rose Markus, Stanford University

SS**Walker, Kameron** **4:45 p.m., Breakout 25***Activation of >4N Content via the Janus Kinase (JAK) Signal Transducer and Activator of Transcription Protein 3 (STAT3) Signaling Pathway*

Research Mentor: Kristen Vogt
 Research Institution: Weill Cornell Graduate School
 Home Institution: Howard University
 Co-Authors: Kristen Vogt, Weill Cornell Graduate School

AB**Wallace, Taylor** **3:45 p.m., Breakout 27***A Comparison of Genetic Mutations in Endometrial Cancer Between African American and Caucasian American Populations*

Research Mentor: Wen Shen
 Research Institution: Weill Cornell Medical College
 Home Institution: Southern Methodist University
 Co-Authors: Leya Groysman, Weill Cornell Medical College; Wen H. Shen, Weill Cornell Medical College

AB**Willis, Jaquelyn** **4:15 p.m., Breakout 27***Exosome Associated Proteins As A Biomarker For Pancreatic Cancer Diagnosis*

Research Mentor: Senthil Muthuswamy
 Research Institution: Harvard University Div. of Medical Sciences
 Home Institution: Spelman College
 Co-Authors: Senthil Muthuswamy, Harvard University Div. of Medical Sciences; Ling Huang, Harvard University Div. of Medical Sciences

AB**Wilson, Anastasya** **4:15 p.m., Breakout 30***Black Activists and Scholars and Their Concepts of Justice.*

Research Mentor: Robert Vargas
 Research Institution: University of Chicago
 Home Institution: Spelman College
 Co-Author: Robert Vargas, University of Chicago

SS**Zweig, Lior** **3:45 p.m., Breakout 22***The Role of the Gut Microbiota in Central Nervous System Autoimmunity*

Research Mentor: Charlotte Wayne
 Research Institution: Columbia University
 Home Institution: SUNY at Binghamton
 Co-Author: Charlotte Wayne, Columbia University

AB



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New Doctoral Scholars

The Leadership Alliance congratulates the following doctoral scholars who have completed their PhDs and MD PhDs. These doctoral scholars bring the total number of Leadership Alliance doctoral scholars to 582.

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Medeva Ghee, Ph.D.

Executive Director

Dr. Medeva Ghee is the Executive Director of the Leadership Alliance and a faculty member in the Department of Behavioral and Social Sciences at Brown University. As Director of the Leadership Alliance, she is responsible for leading the 36-member consortium dedicated to increasing the participation of underrepresented students in competitive graduate and doctoral training programs and ultimately developing leaders and role models in academia, the public and private sectors. She is the Director and Principal Investigator on a number of programs to prepare students for Ph.D. training and to consider careers in the professoriate and broader research workforce. Dr. Ghee previously worked with the Clinton HIV/AIDS Initiative as a Laboratory Systems Specialist. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV/AIDS prevention, care and treatment programs in the Initiative's partner countries in Sub-Saharan Africa. Informed by these experiences, she developed a course on multidisciplinary approaches to support HIV/AIDS care and treatment programs in Sub-Saharan Africa that is offered to Brown undergraduates and Master's degree students. A graduate of North Carolina State University with a bachelor's degree in zoology, she earned her M.S. and Ph.D. in microbiology from New York University School of Medicine. Her postdoctoral research was conducted with a team of CNRS researchers in Paris, France, where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson's disease. At Brown, Dr. Ghee is actively engaged in mentoring and has served as a faculty advisor for Brown undergraduate independent thesis projects and mentor for graduate students. She was honored by the Samuel M. Nabrit Black Graduate Student Association with the Ruth J. Simmons Award for Leadership.



Taiese Bingham-Hickman, M.S., M.B.A., Ph.D.

Associate Director

Alliance Summer Research Early Identification Program (SR-EIP), embodies this mission. After participating in the SR-EIP at Harvard Medical School, she earned both M.S. and Ph.D. degrees from New York University School of Medicine and completed her M.B.A at Northeastern University. Dr. Bingham is a member of the American Society of Pharmacology and Experimental Therapeutics and a published author in her field.

Informed by an impressive multi-sectoral professional trajectory, Dr. Bingham-Hickman brings a wealth of experience to this position. In the past three years, she served as the Assistant Director of Biomedical Informatics Research and Operations at Brown University, where she supported the operational functions of the Brown Center for Biomedical Informatics (BCBI) with major statewide initiatives. In this capacity, she also served as the technical liaison for assigned projects with BCBI collaborators across Brown and its affiliated hospitals, as well as regional/national/international partners. Prior to coming to Brown, Dr. Bingham-Hickman worked in the private industry at Beacon Health Options as the Vice President of Data Analytics where she oversaw Beacon's Analytics Innovation Center that provided thought leadership and analytic capabilities to ensure optimal behavioral health solutions for regional and specialty health plans; employers and labor organizations; and federal, state and local governments. She managed a team that leveraged advanced analytic concepts to drive actionable, insight driven and outcome-oriented decision making to deliver the best in class service for its members, providers and clients. Dr. Bingham-Hickman also worked as the Manager of Analytics for Beacon's Pharmacy Intervention Program and was key in the development of evidence-based algorithms to help identify medication related problems specific to behavioral health conditions.



William Wittels, Ph.D.

Manager of Undergraduate & Graduate Programs

Dr. William Wittels is the Manager of Undergraduate and Graduate Programs for the Leadership Alliance. In that capacity, he helps to manage the Leadership Alliance's Summer Research Early Identification Program, and Leadership Alliance Mellon Initiative. He also assists in program evaluation and strategic planning across the organization.

Prior to joining The Leadership Alliance, he was a member of the Tobin Project, where he fostered multi-year research initiatives on the role of the media in preventing (or abetting) special interest influence in democracies and on the practice and theory of strategic threat assessment. He also managed their Graduate Student Fellowship and created their Prospectus Development Workshop.

He has held teaching fellowships at Duke University as well as Humboldt University in Berlin. He received his Ph.D. and Certification for Teaching Politics from the Department of Political Science at Duke. While there, he was also affiliated with the Kenan Institute of Ethics.

His doctoral research turns to the thought of Niccolò Machiavelli to explore the link between political violence and regime type and articulates what democratic citizens can learn from Machiavelli's understanding of the different ways political regimes address central political problems of violence.



Maria DoVale

Conference & Events Specialist

Maria DoVale is the Conference & Events Specialist for the Leadership Alliance. It is Ms. DoVale's primary responsibility to plan, organize, coordinate and develop sessions that promote networking, mentoring and professional development for undergraduate students, graduate students, and our doctoral scholars. As the Ex-Officio of the Leadership Alliance Symposium Planning Committee, she works alongside colleagues from various member institutions who provide suggestions on different aspects of program planning for the Symposium. Ms. DoVale comes to us with a wealth of experience in

administration, event planning and management augmented with exemplary technical, organizational and customer service skills. Prior to her appointment with the Leadership Alliance, Ms. DoVale worked for 5½ years at the Providence Warwick Convention & Visitors Bureau helping to promote the state of Rhode Island as well as the city of Providence as a convention destination. Prior to this appointment, she worked for American Express corporate travel for eight years. Ms. DoVale holds a B.A. in Travel & Tourism Management from Johnson & Wales University.



Samantha Andersen

Coordinator of Undergraduate Programs

Samantha Andersen is the Undergraduate Coordinator for the Leadership Alliance. In this capacity, she coordinates the combined application process for the undergraduate summer research sites and supervises the Alliance's Summer Research Early Identification Program (SR-EIP) at Brown University. Ms. Andersen cultivated a passion for connecting diverse populations of students with research opportunities when she began her career in higher education at the University of California, Santa Barbara (UCSB). At UCSB Ms. Andersen coordinated the Internships in Nanosystems Science, Engineering and Technology (INSET)

program which gave community college students from across California the opportunity to engage in research at UCSB labs under the guidance and supervision of university mentors during an 8-week summer research program. Holding a master's degree in Early Childhood and Elementary Education from New York University, she has also coordinated after-school programs in science, technology, engineering, art and math at UCSB and at Teachers College, Columbia University. These programs bring university students and resources to public elementary, middle, and high schools in Santa Barbara and New York City, and they bring K-12 students to the university. The after-school programs are designed to expose young students to university life and opportunities early in their educational career and to give university students and faculty the chance to engage with local communities and practice communicating their research and work with varied populations in a setting that is very different from the lab. Since moving to Rhode Island in 2012 Ms. Andersen has worked with United Way of Rhode Island on initiatives focusing on out-of-school time and expanded learning opportunities for Rhode Island youth and with the Community College of Rhode Island and the Rhode Island Department of Education to establish a youth apprenticeship program which allows students to begin a career while they are still in high school.

SYMPOSIUM 2020 PLANNING COMMITTEE

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Geneva Baxter	Associate Dean of Undergraduate Studies, Spelman College
Arnaldo Diaz	Director, Summer Undergraduate Internship Program (SUIP), Perelman School of Medicine; Assistant Dean for Research Training Programs, University of Pennsylvania Perelman School of Medicine
Vanessa Gonzalez-Perez	Assistant Dean for Access, Diversity and Inclusion in STEM, Acting Assistant Dean for Academic Affairs, The Graduate School, Princeton University
Ja'Wanda Grant	University and Student Affairs Lead, Oak Ridge National Laboratory
Edgardo Sanabria-Valentin	Associate Program Director of PRISM, Pre-Med/Pre-Professional Advisor Lead & Asst. Adjunct Professor, John Jay College
Maria DoVale	Ex Officio Member, Conference & Events Specialist, Leadership Alliance Executive Office

LEADERSHIP ALLIANCE STAFF

Medeva Ghee	Executive Director
Taiese Bingham-Hickman	Associate Director
William Wittels	Manager, Undergraduate & Graduate Program
Maria DoVale	Conference and Events Specialist
Samantha Andersen	Undergraduate Program Coordinator

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Teresa Ramirez	Manager, Higher Education Programs, American Physiological Society
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