

# PACE

## UNIVERSITY

### *SPRING 2023*

### *UNDERGRADUATE RESEARCH AND CREATIVE INQUIRY DAY*

**TUESDAY, MAY 2, 2023**  
**9:30 a.m. - 5:00 p.m.**

**New York City Campus**  
**One Pace Plaza and 41 Park Row**

### **SCHEDULE**

9:30 a.m.	<b>Registration and Light Breakfast</b> —Bianco Room
10:00 a.m.-11:45 a.m.	<b>Welcome and Plenary Session</b> —Bianco Room
12:00 p.m.-12:45 p.m.	<b>Luncheon</b> —Bianco Room
1:00 p.m.-2:45 p.m.	<b>Art Exhibition Session</b> —Art Gallery
1:00 p.m.-2:45 p.m.	<b>University-Wide Poster Session</b> —Student Center East & West
3:00 p.m.-4:00 p.m.	<b>Concurrent Panel Sessions 1 through 5</b> Panel sessions are in 3 <sup>rd</sup> floor classrooms, One Pace Plaza
4:15 p.m.-5:00 p.m.	<b>Reception</b> —Bianco Room

**SPRING 2023**  
**UNDERGRADUATE RESEARCH AND CREATIVE INQUIRY DAY**

**TUESDAY, MAY 2, 2023**

**10:00 a.m.-11:45 a.m.**

**Welcome and Plenary Session—Bianco Room, One Pace Plaza**

**Welcome**

Dr. Maria T. Iacullo-Bird  
Assistant Provost for Research, Pace University

**Greeting**

Dr. Avrom J. Caplan  
Associate Provost for Research, Pace University

\*\*\*\*\*

**Plenary Session**

Moderator: Dr. Maria T. Iacullo-Bird, Assistant Provost for Research

***Third World Congress on Undergraduate Research Team***

Student Participants:

Diana Bello, Dyson/Chemistry  
Olenka Besaga, Dyson/Economics & Political Science  
Betsy Gorelik, Seidenberg School of CSIS/Computer Science  
James C. Kennedy, Dyson/Personality and Social Psychology  
Silouani Kostits-Pasiali, Dyson/Business Economics  
Huy Nguyen, Dyson/Economics  
Noah N. Pfeifle, Dyson/Biology  
Madison A. Turunen, Dyson/History, and Peace and Justice Studies

***Zoom Option: Registration Link to access the in-person Plenary Session***

<https://pace.zoom.us/meeting/register/tJYtde2upz4uE93-Ee-Rg794gjHFn2tZDmve>

---

**Luncheon — Bianco Room, One Pace Plaza, 12:00 p.m.–12:45 p.m.**

---

**TUESDAY, MAY 2, 2023**

**1:00 p.m.-2:45 p.m.**

**Art Exhibition Session — Art Gallery, 41 Park Row**

***Changing Landscape***

Student Presenter: Hasan Akinyele, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***These Violent Delights Have Violent Ends***

Student Presenter: Xandria N. Anderson, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***Diosito if You're Real Ya No Aguanto Mas***

Student Presenter: Brianna L. Chiriboga, Dyson/Psychology & Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***Heartbreak Denizens***

Student Presenter: Francisco J. Maldonado, Dyson/Fine Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***Mushroom Mayhem***

Student Presenter: Helen Markoglu, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***One Soul***

Student Presenter: Jenna M. Meyer, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***Untitled***

Student Presenter: Brittany N. Paterson, Dyson/Film and Screen Studies & Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***The Wild***

Student Presenter: Michael H. Segal, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***Reminiscing New York***

Student Presenter: Kristina Vantasi, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***The Political Poster: An Effective Form of Activism***

Student Presenter: Kristina Vantasi, Dyson/Art

Faculty Mentor: Prof. Brenda McManus, Dyson/Art

***What We Started***

Student Presenter: Yana Vulakh, Dyson/Art

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

***In To The Void***

Student Presenter: Naz Yilmaz, Dyson/Fine Art & Art History

Faculty Mentor: Prof. Roger Sayre, Dyson/Art

**TUESDAY, MAY 2, 2023**

**1:00 p.m.-2:45 p.m.**

**University-Wide Poster Session — Student Center East & West, One Pace Plaza**

Presiding: Dr. Maria T. Iacullo-Bird

- 1) ***Auriel - A Smart Situational Awareness System used to improve Pedestrian Safety***  
Student Presenter: Sachin Archer, Seidenberg School of CSIS/Computer Science  
Faculty Mentors: Dr. Andreea Cotoranu, Seidenberg School of CSIS/Information Technology  
Prof. Luke V. Cantarella, Dyson/Film and Screen Studies
- 2) ***Cream Formulations to Enhance Dermal Bacterial Resistance Using Dead Sea Mineral Mud***  
Student Presenter: Diana Bello, Dyson/Chemistry  
Faculty Mentor: Dr. Jaimelee Iolani Rizzo, Dyson/Chemistry and Physical Sciences
- 3) ***Sex-Dependent Differences in the Production of Vascular Lipid Signaling Molecule Prostacyclin***  
Student Presenter: Kristen M. Benes, Dyson/Biochemistry  
Faculty Mentor: Dr. Rita K. Upmacis, Dyson/Chemistry and Physical Sciences
- 4) ***Perception of Victims of Sexual Assault Through the Lens of People v Turner: Content Analysis of Local, National News Stories, Stanford University Reactions, and Student Activism***  
Student Presenter: Abigail E. Braggins, College of Health Professions/Health Science  
Faculty Mentor: Prof. Bernard Dufresne, Office of Institutional Equity and Title IX Compliance
- 5) ***The Mental Side Effects of Commercial Dance***  
Student Presenter: Katie R. Carnaroli, Dyson/Commercial Dance  
Faculty Mentor: Prof. Rachel Leigh Dolan, Dyson/Performing Arts
- 6) ***Oyster? I Barely Know Her! An Analysis of Denitrification Rates in the Presence and Absence of Bivalve Populations in Coney Island Creek***  
Student Presenter: Anuj D. Chowdhuri, Dyson/Environmental Science  
Faculty Mentor: Dr. Monica M. Palta, Dyson/Environmental Science
- 7) ***Religion and Non-fictitious Filmmaking: The Fallacy of "Accurate Portrayal"***  
Student Presenter: Julian W. Clark, Dyson/Film and Screen Studies & Philosophy and Religion  
Faculty Mentor: Dr. Eddis N. Miller, Dyson/Philosophy & Religious Studies
- 8) ***The Mental Health Benefits of Exercise***  
Student Presenter: Alexa J. Couret, College of Health Professions/Health Science  
Faculty Mentor: Dr. Ana B. Amaya, College of Health Professions/Health Science Program
- 9) ***Cryspovirus Persistence Study***  
Student Presenter: Dillon J. Crace, Dyson/Chemistry  
Faculty Mentor: Dr. Nigel R. Yarlett, Dyson/Chemistry and Physical Sciences

**TUESDAY, MAY 2, 2023**

**1:00 p.m.-2:45 p.m.**

**University-Wide Poster Session — Student Center East & West, One Pace Plaza**

**10) *Calcium and Magnesium Content of Bottled Waters***

Student Presenter: Olivia L. Cullen, Dyson/Chemistry

Faculty Mentor: Dr. Elmer-Rico E. Mojica, Dyson/Chemistry and Physical Sciences

**11) *An Insider Scope of the Present Relationship Between Generation Z and Luxury Brands: Producing and Executing Creative Display Advertisements for Five Luxury Brands***

Student Presenter: Amrita Deonanan, Lubin/Advertising and Integrated Marketing Communications

Faculty Mentor: Prof. Soyoung Kim, Lubin/Marketing

**12) *Unveiling the Microbes of the World's Largest Flowers***

Student Presenter: Denia R. Diaz, Dyson/Behavioral Neuroscience

Faculty Mentor: Dr. Jeanmaire Molina, Dyson/Biology

**13) *Phenolic Content and Antioxidant Activity of Propolis Collected from Various Parts of United States***

Student Presenter: Tamara Duval, Dyson/Forensic Science

Faculty Mentor: Dr. Elmer-Rico E. Mojica, Dyson/Chemistry and Physical Sciences

**14) *Female Intimate Partner Homicides Using the National Violent Death Reporting System: A Descriptive Analysis***

Student Presenter: Xinyi Feng, College of Health Professions/Health Science

Faculty Mentor: Dr. Erica Gollub, College of Health Professions/Health Science Program

**15) *Simplifying an Identity***

Student Presenter: Felicity Flores-Drew, Dyson/English

Faculty Mentor: Dr. Kristen K. di Gennaro, Dyson/English

**16) *A Design for Low-Cost Drone Detection***

Student Presenter: Federico Gutierrez, Seidenberg School of CSIS/Computer Science

Faculty Mentor: Prof. Jonathan I. Lee; Dr. Andreea Cotoranu, Seidenberg School of CSIS/Information Technology

**17) *Matching Expiratory Flow Rates During Development of the Pacifier Pinwheel***

Student Presenter: Isabel Holland, Dyson/Behavioral Neuroscience

Faculty Mentor: Dr. Eric Brenner, Dyson/Biology

**18) *A Comparative Study on the Marketing Strategy of The Rare Beauty x Mental Health 101 Campaign and Fenty Beauty x Clara Lionel Foundation***

Student Presenter: Erika L. Hostrop, Lubin/Advertising and Integrated Marketing Communications

Faculty Mentor: Dr. Bill Offutt, Dyson/History

**TUESDAY, MAY 2, 2023**

**1:00 p.m.-2:45 p.m.**

**University-Wide Poster Session — Student Center East & West, One Pace Plaza**

**19) *Hip Hop's White House Guest: An Analysis of Jack Harlow, White Rap Authenticating Strategies, and That's What They All Say***

Student Presenter: Michael Huertas, Dyson/Communication and Media Studies

Faculty Mentor: Dr. Melvin Williams, Dyson/Communication and Media Studies

**20) *Do Beliefs About Fixedness of Verbal Ability Influence Endorsement of Behaviorist Ideas on Language Development?***

Student Presenter: Faith A. Jones, College of Health Professions/Speech Language Pathology and Audiology

Faculty Mentor: Dr. Sethu Karthikeyan, College of Health Professions/Communication Sciences and Disorders

**21) *Agrawal, Musk, and Their Employees: An Analysis of Twitter Employee Tweets***

Student Presenter: Alia Keliiholokai, Lubin/Management

Faculty Mentor: Dr. Katherine M. Richardson, Lubin/Management

**22) *The Paradox of Environmental Conditions on the Housing Market in the United States***

Student Presenter: Silouani Kostits-Pasiali, Dyson/Business Economics

Faculty Mentor: Dr. Gregory Colman, Dyson/Economics

**23) *Analysis of Crypto Privacy and Security Requirements Amidst Increasing Global Financial Regulation***

Student Presenter: Kylie A. LoPiccolo, Seidenberg School of CSIS/Information Systems

Faculty Mentor: Dr. Francis Parisi, Seidenberg School of CSIS/Computer Science

**24) *It's a Bitter Sweet Symphony: Sampling Technology's Impact on Copyright Law in the Music Industry***

Student Presenter: Sadie C. Lorence, Lubin/Advertising and Integrated Marketing Communications & Arts and Entertainment Management

Faculty Mentor: Dr. Jessica A. Magaldi, Lubin/Legal Studies and Taxation

**25) *Intergenerational Trauma: Impacts on Cultural and Personal Identities***

Student Presenter: Charlotte E. MacNeal, Dyson/Psychology

Faculty Mentor: Dr. Judith Pajo, Dyson/Sociology & Anthropology

**26) *Synthesis of Unique Body Scrubs Made of Natural Oils for the Inhibition of Bacteria and Protection Against UV Radiation***

Student Presenter: Francesca G. Marchese, Dyson/Chemistry

Faculty Mentor: Dr. Jaimelee Iolani Rizzo, Dyson/Chemistry and Physical Sciences

**27) *The Checklist to Finding Love on Earth***

Student Presenter: Maeve G. Merzena, Dyson/Acting

Faculty Mentor: Prof. Robert W. Cline, Dyson/PPA Academic

**TUESDAY, MAY 2, 2023**

**1:00 p.m.-2:45 p.m.**

**University-Wide Poster Session — Student Center East & West, One Pace Plaza**

**28) *XAI Research on Sentiment Analysis***

Student Presenter: Joseph Paradiso, Seidenberg School of CSIS/Computer Science  
Faculty Mentor: Dr. Yegin Genc, Seidenberg School of CSIS/Information Technology

**29) *Privacy Preserving Vehicular Adhoc Network Computations***

Student Presenter: Austin B. Parris-Powlette, Seidenberg School of CSIS/Computer Science  
Faculty Mentor: Dr. Miguel A. Mosteiro, Seidenberg School of CSIS/Computer Science

**30) *Factors That Predict Endorsement of Behaviorist Ideas on Language Development***

Student Presenter: Kady R. Patterson, College of Health Professions/Speech Language Pathology and Audiology  
Faculty Mentor: Dr. Sethu Karthikeyan, College of Health Professions/Communication Sciences and Disorders

**31) *The Effect of Light Quality on Circumnutation (swaying motion) on the Flowering Stems of Arabidopsis Thaliana***

Student Presenter: Noah N. Pfeifle, Dyson/Biology  
Faculty Mentor: Dr. Eric Brenner, Dyson/Biology

**32) *Patients with Diabetes and Intercorrelation to Vision Loss Impacted by Factors of Genetics and Race Through Glaucoma Testing in Analysis of Diabetic Retinopathy***

Student Presenter: Ali Rakka, Dyson/Optomety  
Faculty Mentor: Dr. Matthew R. Marcello, Dyson/Biology

**33) *Gun Violence and Firearm Background Checks; Do State Firearm Background Checks for Mental Health Reduce Suicide Rates by Firearm?***

Student Presenter: Larissa A. Rapoport, College of Health Professions/Health Science  
Faculty Mentor: Dr. Erica Gollub, College of Health Professions/Health Science Program

**34) *Quinine Content in Different Water Samples***

Student Presenter: Alena Romanova, Dyson/Biology  
Faculty Mentor: Dr. Elmer-Rico E. Mojica, Dyson/Chemistry and Physical Sciences

**35) *Synthesis and Analysis of Gold Nanoparticles Applied to Glaze Chemistry: A Green Chemistry Experiment***

Student Presenter: Grace L. Ross, Dyson/Chemistry  
Faculty Mentor: Dr. Rita K. Upmacis, Dyson/Chemistry and Physical Sciences

**36) *Creating a Social Media Marketing Plan for Shop Repurpose***

Student Presenter: Agatina Russo, Lubin/International Management  
Faculty Mentor: Dr. Claudia G. Green, Lubin/Management

**TUESDAY, MAY 2, 2023**

**3:00 p.m.-4:00 p.m.**

**Concurrent Panel Sessions — 3<sup>rd</sup> floor classrooms, One Pace Plaza**

**Session 1: Queerness: Through Relationship Intimacy and Sex Work - Room E303**

**Moderators: Dr. Amy C. Foerster and Dr. Amy L. Freedman**

***Transcending Binaries: Queerness, Attachment Theory, and the Matrix of Intimacy***

Student Presenter: Emily L. Wernick, Dyson/Sociology and Anthropology

Faculty Mentors: Dr. Roger Salerno; Dr. Amy C. Foerster, Dyson/Sociology and Anthropology

***An Analysis of Thailand's Reputation as A Sexually Open and Tolerant Nation***

Student Presenter: Ellis M. Clay, Dyson/Political Science & Peace and Justice Studies

Faculty Mentor: Dr. Amy L. Freedman, Dyson/Political Science

***Bodies @ Work***

Student Presenter: Adam M. Al-Hatlani, Dyson/Art

Faculty Mentor: Prof. Inbal Abergil, Dyson/Art

**Session 2: Giving Voice to Marginalized Communities; the Role of Classroom Dynamics in Learning - Room E308**

**Moderators: Dr. Kelley A. Kreitz, Dr. Sid E. Ray, and Dr. Meaghan H. Brewer**

***Brimming with Determination***

Student Presenter: Aya Krimou, Dyson/Art

Faculty Mentor: Dr. Kelley A. Kreitz, Dyson/English

***A Gay Ol' Time***

Student Presenter: Jack A. Niemczyk, Dyson/English Language Literature

Faculty Mentor: Dr. Sid E. Ray, Dyson/English

***Barriers to Success: The Influence of Classroom Dynamics***

Student Presenter: Faith M. Gregory, Dyson/Psychology

Faculty Mentor: Dr. Meaghan H. Brewer, Dyson/English



**TUESDAY, MAY 2, 2023**

**3:00 p.m.-4:00 p.m.**

**Concurrent Panel Sessions — 3<sup>rd</sup> floor classrooms, One Pace Plaza**

**Session 3: Innovations in Computer Science: Textile Patterns Using DCGANs and the Efficacy of Remote Laboratories - Room E314**

**Moderators: Dr. Christelle Scharff and Dr. Thomas M. Schmidt**

***Generating African Wax Textile Patterns using Deep Convolutional Generative Adversarial Networks (DCGANs)***

Student Presenter: Betsy Gorelik, Seidenberg School of CSIS/Computer Science

Faculty Mentor: Dr. Christelle Scharff, Seidenberg School of CSIS/Computer Science

***Evaluation of Remote Laboratories in the Effectiveness of Course Delivery***

Student Presenters:

Xander J. Hughes, Seidenberg School of CSIS/Computer Science

Erin Sorbella, Seidenberg School of CSIS/Computer Science

Faculty Mentor: Dr. Thomas M. Schmidt, Seidenberg School of CSIS/Computer Science

**Session 4: Economic Analyses on Fertility, Salary Caps, and BITCOIN - Room E318**

**Moderators: Dr. Mary A. Kaltenberg and Dr. Todd R. Yarbrough**

***The Role of Risk Preferences in Fertility Decisions***

Student Presenter: Hanyu Li, Dyson /Economics

Faculty Mentor: Dr. Mary A. Kaltenberg, Dyson/Economics

***NFL Salary Caps for Rookie Candidate***

Student Presenter: McKenna P. Moore, Dyson/Economics

Faculty Mentor: Dr. Todd R. Yarbrough; Mary Kaltenberg, Dyson/Economics

***BITCOIN: Emergence of Global Investment Asset***

Student Presenter: Huy Nguyen, Dyson/Economics

Faculty Mentor: Dr. Todd R. Yarbrough, Dyson/Economics

**TUESDAY, MAY 2, 2023**

**3:00 p.m.-4:00 p.m.**

**Concurrent Panel Sessions — 3<sup>rd</sup> floor classrooms, One Pace Plaza**

**Session 5: Centering Post-Roe Black Feminists, NYC's Puerto Ricans, and COVID-19 and the Black Lives Matter Movement - Room E319**

**Moderators: Dr. Judith Pajo and Dr. Maria T. Iacullo-Bird**

***Centering Black Feminists in a Post Roe America***

Student Presenter: Mikayla E. Meachem, Dyson/Peace and Justice Studies

Faculty Mentor: Dr. Meghana Nayak, Dyson/Women and Gender Studies

***Nuyoricanismo: Understanding the History and Culture of New York City's Puerto Rican Community***

Student Presenter: Andrew J. Villardi, Dyson/Sociology and Anthropology

Faculty Mentor: Dr. Judith Pajo, Dyson/Sociology and Anthropology

***Pace University COVID-19 and Black Lives Matter Oral History***

Student Presenter: Madison Turunen, Dyson/History, and Peace and Justice Studies

Faculty Mentor: Dr. Maria T. Iacullo-Bird, Dyson/History

---

**Reception — Bianco Room, One Pace Plaza, 4:15 p.m.–5:00 p.m.**

---