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. Registration and Light Breakfast—Bianco Room

10:00 a.m.-11:45 a.m. Welcome and Plenary Session—Bianco Room

12:00 p.m.-12:45 p.m. Luncheon—Bianco Room

1:00 p.m.-2:45 p.m. Art Exhibition Session—Art Gallery

1:00 p.m.-2:45 p.m. University-Wide Poster Session—Student Center East & West

3:00 p.m.-4:00 p.m. Concurrent Panel Sessions 1 through 5
Panel sessions are in 3rd floor classrooms, One Pace Plaza

4:15 p.m.-5:00 p.m. Reception—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

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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

   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

   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/Optometry
   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 — 3rd 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 — 3rd 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 — 3rd 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.