STUDENT RESEARCH DAY
FRIDAY, APRIL 23, 2021

10:00 a.m.

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

Welcome
Dr. Vanya Quiñones
Provost and Executive Vice President for Academic Affairs

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Opening Session — 10:10-11:00 a.m.
COVID-19, Black Lives Matter, and Students: Documenting Experiences in a Transformative Year
Moderators: Dr. Judith Pajo, Dr. Courtney L. Gosnell, Dr. Lisa Rosenthal

Pandemic as the Lived Experience
Shen Yang
Dyson, Sociology/Anthropology
Faculty Mentor: Dr. Judith Pajo

Beliefs and Coping with COVID-19
Sierra J. Metviner
Dyson, Psychology
Faculty Mentor: Dr. Courtney L. Gosnell

Understanding Experiences of Covid-19 and the Black Lives Matter Movement with Youth Participatory Action Research
Emmanuelle C. Egodigwe
Dyson, Psychology
Faculty Mentor: Dr. Lisa Rosenthal
Concurrent Session 1 — 11:10-12:00 p.m.

**Posters 1: Diversity, Equity and Inclusion in Higher Education and Public Health**
Moderators: Dr. Anne H. Toomey, Dr. Erica Gollub

*Supporting Justice, Equity, Diversity, and Inclusion in Environmental Science and Studies at Pace University*
- Racine N. Robinson
- Dyson, Environmental Studies
- Faculty Mentor: Dr. Anne H. Toomey

*Black Women’s History of Racial Experiences Personally and in Reproductive/Sexual Healthcare: Implications for New and Upcoming HIV prevention Methods*
- Raven M. Vaughan
- College of Health Professions, Health Science
- Faculty Mentor: Dr. Erica Gollub

**Posters 2: Humanities Perspectives: History, Historical Drama and Fandom**
Moderators: Dr. Michelle C. Chase, Prof. Melanie La Rosa, Dr. Marcella T. Szablewicz

*The Role of Minority Women in the WWII Labor Force*
- Tayya A. Johnson
- School of Education, Adolescent Education
- Faculty Mentor: Dr. Michelle C. Chase

*Steps to Writing a Historical Drama*
- Nicole Rodriguez
- Dyson, Digital Cinema and Filmmaking
- Faculty Mentor: Prof. Melanie La Rosa

*You and I: Parasocial Relationships, Social Media, and Fan Labor in the One Direction Fandom*
- Kathryn E. Meese
- Dyson, Communication Studies
- Faculty Mentor: Dr. Marcella T. Szablewicz
Posters 3: Political Activism
Moderators: Prof. Sarah B. Cunningham, Dr. Meghana V. Nayak, Prof. Erin K. Mysogland, Dr. Claire D. Panetta

Substance Exhibition
Samantha L. Smith
Dyson, Art
Faculty Mentor: Prof. Sarah B. Cunningham

The Impact of Latinx Activism on Arizona's 2020 Electoral Outcome
Emily Oberlender
Dyson, Political Science
Faculty Mentor: Dr. Meghana V. Nayak

Intersectionality and Youth Voter Turnout: Using NSLVE Data to Inform Best Practices
Amber L. Hunter
Lubin, Advertising and Integrated Marketing Communications
Faculty Mentor: Prof. Erin K. Mysogland

Nationalism in the Age of Brexit: The Attitudes and Identities of Young Voters
Emma L. Wolkenstein
Dyson, Sociology/Anthropology
Faculty Mentor: Dr. Claire D. Panetta
Posters 4: The S&P Index, the Trump Bump and Cyber Crimes
Moderators: Dr. Walter Morris, Dr. Anna Shostya, Dr. Jessica A. Magaldi

The S&P Index vs Macroeconomics
Everton Mendoza-Holmes
Dyson, Business Economics
Faculty Mentor: Dr. Walter Morris

Is the Trump Bump Real? A Study of the 45th President's Tweets During his First 3 Years in Office in Relation to the Dow Jones
Elissa Kosovrasti
Dyson, Business Economics
Faculty Mentor: Dr. Anna Shostya

Where should the U.S. draw a boundary under Section 230 of the CDA to protect free speech online while preventing the spread of cyber crimes?
Briana Dincher
Lubin, Public Accounting/Taxation
Faculty Mentor: Dr. Jessica A. Magaldi
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Concurrent Session 3 —1:30-2:30 p.m.

Posters 5: Computer Science and Information Systems
Moderators: Dr. Jun Yuan, Dr. Li-Chiou Chen, Prof. Andreea Cotoranu, Dr. Juan Shan

_TokuFS Derange - An I/O optimized File System in the age of distributed computing_
   Iris Nguyen
   Seidenberg School of CSIS, Computer Science
   Faculty Mentor: Dr. Jun Yuan

_The Effect of User Interface, User Experience and Design on Mobile E-commerce Applications in the Fashion Industry_
   Debra Perlman
   Seidenberg School of CSIS, Information Systems
   Faculty Mentor: Dr. Li-Chiou Chen

_Swimloop: A Progressive Web Application for Supporting Communication between Swimming Coaches and their Athletes_
   Marta Hasny
   Seidenberg School of CSIS, Computer Science
   Faculty Mentor: Prof. Andreea Cotoranu

_Knee osteoarthritis diagnosis using bone distance from MRI images and machine learning methods_
   Federico Gutierrez
   Seidenberg School of CSIS, Computer Science
   Faculty Mentor: Dr. Juan Shan
Posters 6: The Visual Arts, Creative Writing and Language
Moderators: Prof. Daniel J. Hill, Dr. Meaghan H. Brewer, Dr. Kristen di Gennaro

Social Distant Art Project - Packages Wash Up On the Islands
Jiajia (Man-Chia) Wu
Dyson, Art
Faculty Mentor: Prof. Daniel J. Hill

Is That Even a Real Major? Conceptions of the Creative Writing Discipline
Catherine H. Kennison
Dyson, English Language & Literature
Faculty Mentor: Dr. Meaghan H. Brewer

You Talk Like a Girl: Stereotypes about Women's Language
Allison M. Fisher
Seidenberg School of CSIS, Computer Science
Faculty Mentor: Dr. Kristen di Gennaro
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Concurrent Session 4 — 2:40-3:40 p.m.

Posters 7: Mathematical Explorations
Moderator: Dr. Meng Xu

Exploration on the Teaching Reform of Ordinary Differential Equation
Jingjie Ding
Dyson, Mathematics
Faculty Mentor: Dr. Meng Xu

Creative Solutions: Comparing Mathematical and Artistic Processes
Izni Saiyara
Dyson, Mathematics
Faculty Mentor: Dr. Meng Xu

Correlation between Acacia mearnsii and drought in Western Cape, South Africa
Rachel M. Mallet
Dyson, Mathematics
Faculty Mentor: Dr. Meng Xu
Posters 8: Science Topics One  
Moderators: Dr. E. Melanie DuPuis, Dr. Aaron B. Steiner

Assessing Coastal Resilience Strategies of Northeast Florida  
Julia G. Corrado  
Dyson, Environmental Studies  
Faculty Mentor: Dr. E. Melanie DuPuis

Dkk Inhibition by WAY-262611 Increases Neuromast Size in the Zebrafish Lateral Line  
Joana Krause Massaguer  
Dyson, Biochemistry  
Faculty Mentor: Dr. Aaron B. Steiner

Generating a Reproductive Genetics Database for Evaluating Genome-Wide Sequencing Data with Caenorhabditis elegans  
Brandon L. Clark  
Dyson, Behavioral Neuroscience  
Faculty Mentor: Dr. Matthew R. Marcello

Analyzing the Effect of Bee Propolis Exposure on Reproduction in C. elegans  
Nini Mamisashvili  
Dyson, Behavioral Neuroscience  
Faculty Mentor: Dr. Matthew R. Marcello
Concurrent Session 5 — 3:50-4:50 p.m.

Posters 9: Children’s Health and K-12 Education
Moderators: Dr. Angela Northrup, Dr. Christine D. Clayton, Dr. Joan T. Walker

Exploring Consumption of Sugar-Sweetened Beverages in at-risk Children
Rachel Mazariegos
College of Health Professions, Nursing
Faculty Mentor: Dr. Angela Northrup

Engagement, Equity, and Self-Efficacy in the Remote Learning Setting in the Mathematics Classroom
Nicolette K. Camacho
School of Education, Math and Adolescent Education
Faculty Mentor: Dr. Christine D. Clayton

Beginning teacher's perceptions of a classroom scenario: Developmental differences in perceptions of teacher bias and classrooms as systems
Naya J. Rivera
School of Education, Biology and Adolescent Education
Faculty Mentor: Dr. Joan T. Walker
Posters 10: Science Topics Two  
Moderators: Dr. Marcy A. Kelly, Dr. Rita K. Upmacis, Dr. Nancy A. Krucher, Dr. Eric P. Chang

A Cholesterol-Mediated Metabolism Shift Protects Mycobacterium bovis-BCG from GSH Induced Reductive Stress by Increasing Electron Sink Availability  
Jesse M. Devlin  
Dyson, Biology  
Faculty Mentor: Dr. Marcy A. Kelly

Evaluating the ATP concentrations and NAD: NADH, H+ ratios Of M. bovis-BCG upon addition of GSH under a state of NRP  
Kourtney Kelly  
Dyson, Biology  
Faculty Mentor: Dr. Marcy A. Kelly

Sex-Specific Inheritance Pattern of COX2 Mutation  
Shayan Saniei  
Dyson, Biology  
Faculty Mentor: Dr. Rita K. Upmacis

Using the ACLY inhibitor, Bempedoic acid, to reverse treatment resistance in breast cancer  
Christopher P. Petrella  
Dyson, Biology  
Faculty Mentor: Dr. Nancy A. Krucher

Using a DNA Aptamer to Target the Mobile Loop Region of Lactate Dehydrogenase from the Malaria Parasite, P. falciparum  
Angel E. Ordonez Flores  
Dyson, Forensic Science  
Faculty Mentor: Dr. Eric P. Chang

Closing Reception — 5:00-5:30 p.m.  
Join us to learn about upcoming undergraduate research opportunities  
Dr. Maria T. Iacullo-Bird  
Assistant Provost for Research, Pace University