

STUDENT RESEARCH DAY
FRIDAY, APRIL 23, 2021

10:00a.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

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

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FRIDAY, APRIL 23, 2021

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

STUDENT RESEARCH DAY
FRIDAY, APRIL 23, 2021

Concurrent Session 2 – 12:10-1:00 p.m.

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

STUDENT RESEARCH DAY
FRIDAY, APRIL 23, 2021

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

STUDENT RESEARCH DAY
FRIDAY, APRIL 23, 2021

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

STUDENT RESEARCH DAY
FRIDAY, APRIL 23, 2021

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