Sponsored by the Division of Academic Affairs with special thanks to all of our community and campus partners who supported this conference: Northfield Bank, and the CSI Alumni Association.
Message from the President

Undergraduate research is one of the hallmarks of a top-tier institution, and the College of Staten Island can truly claim a legacy of this activity. Our faculty work with and involve students in an impressive array of high-impact practices, providing meaningful exposure to research in the sciences, humanities, business, education, and performing and creative arts, as well as the social and health sciences. What you see before you is the culmination of hundreds of hours of activity in laboratories, archives, and elsewhere. The dedication of our faculty in supporting these efforts is matched only by the enthusiasm and talented contributions of their student counterparts.

The activities you see on display at this event are proof that hands-on, experiential learning is key to a college curriculum. Through undergraduate research, our students are able to apply the theories, concepts, and constructs they learned about in lecture to the real world. The linkage of theoretical and applied knowledge is a crucial component of undergraduate education, and represents the very best of both teaching and learning.

The annual Undergraduate Research Conference is, along with Commencement, one of the proudest days for the College of Staten Island. It allows us to celebrate the accomplishments of so many students in so many disparate areas; I am pleased to share with you all the hard work of our students and their faculty mentors. Enjoy the event!

Sincerely,

Timothy G. Lynch, Ph.D. (he/him/his)
President
CSI Undergraduate Conference on Research, Scholarship, and the Arts  
Thursday, May 2, 2024

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| Noon–4:00pm  | Exhibitions - The Art Gallery of the College of Staten Island  
               1P-112  
               *The Waking Dreams of Phantasmata Traumata*  
               This exhibition presents supernatural collaborations, invitations for paranormal visitation, psychic predictions, and uncanny mediations. Join us for an exhibition of paintings, objects, moving images, and otherworldly guests.  
               *This exhibition is curated by Prof. Siona Wilson (with Prof. Cynthia Chris)* |
| Noon-1:00pm  | Lunch available to participating students and mentors  
               1P-116 (pick up) |
| 1:00pm–2:00pm| Plenary Session  
               Williamson Theatre, 1P-111  
               Musical Introduction  
               Angel Muñoz-Avila (Class of ’25), Harpist  
               Welcome and Introductions  
               Laxmi Ramasubramanian - Associate Provost  
               Opening Remarks  
               Michael E. Steiper - Interim Provost/Senior Vice President for Academic Affairs  
               Keynote Address  
               Charles Liu - Professor of Astrophysics  
               Can You Hear The Music? Barbenheimer, The Multiverse, And You  
               Remarks from Sponsors  
               Closing Vocal Performance  
               Diana Claps (Class of ’24), Mezzo-Soprano, with Prof. Sylvia Kahan on piano |
| 2:00pm-4:00pm| Poster Presentations  
               1P Atrium |
| 2:30pm-3:00pm| Theater - Performing and Creative Arts - Drama Program  
               Williamson Theatre, 1P-111  
               A scene from “Workshopping Mary Zimmerman’s Play Metamorphosis: A Student Collaboration with Professor Maurya Wickstrom” |
| 2:30pm-4:00pm| Exhibitions - The Student Art Gallery  
               1P-118B  
               A juried group exhibition of student art curated by PCA student curators Axel Delgado, Janinne Aguayza-Calle, Victoria Paradiso, and Emily Wu (Faculty Adviser: Prof. Beth Livensperger) |
| 3:00pm-4:00pm| Music Hour - Performing and Creative Arts - Music Program  
               Williamson Theatre, 1P-111  
               Musical performances featuring Composition Students, Senior Recital Performers, and Ensembles from the Performing and Creative Art Department's Music Program. Featuring private students of Professors Sylvia Kahan, Johnna Nan Wu, and Elena Heimur, as well as ensembles directed by Professors Ed Brown (CSI Guitar Ensemble), Vincent Guarna (The CSI Jazz Combo), and Darrell Smith (The CSI Jazz Ensemble). |
| 4:00pm-4:20pm| Film Screenings and Posters - Media Culture  
               Williamson Theatre, 1P-111  
               Films, videos, and posters (representing advanced design and digital media) presented by students from the Department of Media Culture. |
| 4:20pm-4:40pm| Poetry Reading - English Department  
               Williamson Theatre, 1P-111  
               Students present their original works of poetry. |
THE DEPARTMENT OF PERFORMING AND CREATIVE ARTS AND THE DEPARTMENT OF MEDIA CULTURE PRESENT

AN ART AND MUSIC EXPOSITION

AT THE

23rd Annual CSI Undergraduate Conference on Research, Scholarship, and the Arts
Plenary

Williamson Theatre, 1P-111 1:00pm-2:00pm

PCA Music Program

Musical Introduction

“Seguidilla” from Suite of Eight Dances .............................................................. Carlos Salzedo

“Tango” from Suite of Eight Dances ................................................................. Carlos Salzedo

Angel Muñoz-Avila, harp

Mentored by Prof. Chelsea Lane

Closing Performance

“Una Voce Poco Fa” from The Marriage of Figaro ............................................... Gioachino Rossini

Diana Claps, mezzo-soprano

Prof. Sylvia Kahan, piano

Mentored by Prof. Elena Heimur

Theater

Williamson Theatre, 1P-111 2:30pm

PCA Drama Program

A Scene from “Workshopping Mary Zimmerman’s Play Metamorphosis:
A Student Collaboration with Professor Maurya Wickstrom”

CAST

Vincent DeLuca
Tommy DeVito
Tareq Farag
Emma Ferguson
Derrick Kinsey
Giovanna Rotondo
Regan Sou
Maria Lee Vazquez
Music Hour

Williamson Theatre, 1P-111  3:00pm-4:00pm

PCA Music Program

Etude in F minor, Op. 10, no. 9 ................................................................. Frédéric Chopin

Xiaoying Amber Liang, piano
Mentored by Prof. Sylvia Kahan

Vocalise ...................................................................................................... Serge Rachmaninoff

   Jerrol Bowman, violin

   Xiaoying Amber Liang, piano
Mentored by Prof. Sylvia Kahan and Prof. Johnna Nan Wu

“Ch’io mi scordi di te,” K. 505 ................................................................. Wolfgang A. Mozart

   Diana Claps, mezzo-soprano

   Prof. Sylvia Kahan, piano
Mentored by Prof. Elena Heimur

CSI Guitar Ensemble, directed by Prof. Ed Brown

   Matthew Asmat

   Jenny Brown

   Ryan Chisefsky

   Joshua Crespo

   Anthony Delcore

   Mano Merca

   Maksim Nam

   Angelina Resoso

   Javier Luis Santos

   Sasha Samsonovich

   Niamh Alarcon

   Andrew Yip

Flamenco Fantastico ................................................................. David Burndrett

Adelita ................................................................. Francisco Tárrega

   Mano Merca, guitar

Django’s Stomp ................................................................. David Bruce

Góndola veneciana, Op. 19, No. 6 ........................................ Felix Mendelssohn, trans. Francisco Tárrega

   Anthony Delcore, guitar
Ghostbusters ................................................................. Ray Parker Jr., arr. Derek Hasted

The Ensemble

**The CSI Jazz Combo, directed by Prof. Vincent Guarna**

Anthony Delcore, Guitar
Andres Romero, Drums
Steven Tyler Tindall, Electric Bass

Recordame ................................................................. Joe Henderson
What Is This Thing Called Love? .................................................. Cole Porter

**The CSI Jazz Ensemble, directed by Prof. Darrell Smith**

Daniel Joseph Bayer, Kristen Sparacio and Robin Whalen, Trumpet
Kevin Mcgetrick, Trombone
Madisen Cutler, Flute/Clarinet
Brianna Dellaccio, Clarinet
Theresa M. Pagani, Alto Sax
Nicholas Michelizzi, Tenor Sax
Sasha Samsonovich, Tenor Sax
Erik Davis, Tenor Sax
Lawrence Levin, Piano
Anthony Declore, Guitar
Steven Tyler Tindall, Bass
Andres Romero, Drums
Genevieve E. Steinmetz, Vocalist

In a mellow tone .............................................................. Duke Ellington
Ellington’s sound of Love ...................................................... Charles Mingus
Bachafillen ........................................................................ Garnett Brown
**Film Screenings and Posters**

**Williamson Theatre, 1P-111**

4:00pm

**Department of Media Culture**

Moving image work

**Girl with a Movie Camera**

by Karena Pang

Cinema Production Major

*film, approx. 5min*

**Boxing Legends**

by Keith Clemons

COM Design & Digital Media Major

*animation, 2min, 30sec*

**Will (and a Musical Showcase of Anxious Chaos)**

by Robert Lenza (with live soundtrack by Joe Miele)

Cinema Production Major

*film with live performance, approx. 10min*

**Posters to be exhibited inside the Williamson Theatre representing Advanced Design & Digital Media creative work:**

Embrace Humanity, Reject Artificiality by Jeremiah Alonso

Café Juliet by Samantha Carreon

Pillars of Progress by Jaden Etienne

Amara: Branding a Musical Artist by Deanna Garcia

What does fashion mean to you? by Isabella Giuliani

Italian Posters by Timothy Lauser

Teapot Tales by Kate Leung

Why Neuralink by Dominic Moore

Elena and Her Pet Rabbit by Pricila Ortega Ramos

Can You Hear Me? by Kafui Vowotor

A Day In The Life…(a short graphic novel) by Yessenia Zosayas
Poetry

Williamson Theatre, 1P-111 4:20pm

English Department

Poetry Reading

Original Poetry by
Kelliann D’Ambrosio
Jordana Cristino
Louis Perrotti
Amina Selimaj
Kai White

Exhibitions

1P-112 Noon–4:00pm

The Art Gallery of the College of Staten Island

The Waking Dreams of Phantasmata Traumata

Does an artwork dream? Let’s imagine that the material, the medium of a created thing can also be a medium of another kind. A mystic, a clairvoyant, a soothsayer that augurs better futures, purges injuries of the soul, and connects us with the unhappy ghosts of our cruel world. The artwork as medium might be a channel to awaken other pasts (and the pasts of others), transform the present, and reshape what is to come. *The Waking Dreams of Phantasmata Traumata* explores the psychic lives of artworks when the artist is forgotten. The exhibition presents supernatural collaborations, invitations for paranormal visitation, psychic predictions, and uncanny mediations. Join us at the Art Gallery of The College of Staten Island for an exhibition of paintings, objects, moving images, and otherworldly guests.

*This exhibition is curated by Prof. Siona Wilson (with Prof. Cynthia Chris)*

1P-118B 2:30pm–4:00pm

The Student Art Gallery of the College of Staten Island

Undergraduate Research Conference Art Exhibition

A juried group exhibition of student art curated by PCA student curators Axel Delgado, Janinne Aguayza-Calle, Victoria Paradiso, and Emily Wu (Faculty Adviser: Prof. Beth Livensperger)
POSTER PRESENTATIONS

Center for the Arts
2:00pm-4:00pm
ACCOUNTING AND FINANCE

ACC/FNC-01
The Effects of Sustainability Performance Metrics on the Financial Performance of Pharmaceutical Companies in New York Stock Exchange
Leah A Vega
Faculty Mentor: Professor Banu Aslanertik

ACC/FNC-02
Impact of Technology on Financial Fraud Investigations
Yamely Garcia
Faculty Mentor: Professor Patricia Galletta

BIOLOGY

BIO-01
The Effect of Tau on Neuroblastoma Cell Cycle and Growth
Sandi Kelada
Faculty Mentor: Professor Alejandra Alonso

BIO-02
The Six Isoforms of Tau: Insights on Their Differences and Levels of Toxicity in the Brain
Jessica N Ifeanyi
Faculty Mentor: Professor Alejandra Alonso

BIO-03
Taurine Regulation of Blood Pressure and Vascular Resistance: A Literature Review
Irene Kalogiannis
Faculty Mentor: Professor Abdeslem El Idrissi

BIO-04
The Effect of JZL-184 on Repetitive Behavior in the BTBR Mouse Model of Autism Spectrum Disorder
Milena E Olkhovetsky
Faculty Mentor: Professor Michelle Esposito

BIO-05
The Impact of Human Activities on Zoonotic Infection Transmissions
Sara Turku, Leora Lehrfield
Faculty Mentor: Professor Michelle Esposito

BIO-06
Exploring the Vast Emotions of Cows: The Importance of Awareness for Ethical Treatment in the Food Industry
Arianna Brillante
Faculty Mentor: Professor Ann N Etsey

BIO-07
Development of a Cost-Effective Mechanical Scanning Platform for Prosthetic Surface Mapping and 3D Additive Manufacturing
Edward Leibowitz
Faculty Mentor: Professor Jimmie Fata

BIO-08
The Development of a Python Computer Code Capable of Finding Novel Anti-Cancer Compounds against Triple Negative Breast Cancer
Xinyi Weng
Faculty Mentor: Professor Jimmie Fata
BIO-09
Reviewing the Role of Carbon Dioxide for Seizure Intervention in Humans and African Naked Mole-Rats
Rebecca A Andes
Faculty Mentor: Professor Antonella Guadagnino

BIO-10
Sorting Patterns of Human Leukocyte Antigen Expression in Glioblastoma Multiforme (GBM)
Naomi A Akan, Raeshawn E Gibson
Faculty Mentor: Professor Nancy Liu-Sullivan

BIO-11
Tumor Grade Associated Collagen Signatures and Overall Patient Survival in Gliomas: A Developing Story
Caidin R Carela, Ambar Alvarenga, Melina Turco
Faculty Mentor: Professor Nancy Liu-Sullivan

BIO-12
An Observational Study of Water Contaminants and High Cancer Incidence on Staten Island
Rachel Tbeile, Lily Chen, Yuliya Kim, Eve Deans, Fiona Shehu, Marie Darlande Toussaint, Husein Bechara
Faculty Mentor: Professor Nancy Liu-Sullivan

BIO-13
Exploratory Behavior: Study of Young and Experienced Lesser Black-backed Gulls
Brian Kerliu
Faculty Mentor: Professor Lisa Manne

BIO-14
The Influence of Bird’s Traits on Geographic Range Size
Morgan Novello
Faculty Mentor: Professor Lisa Manne

BIO-15
Impact of Habitat Quality on Dispersal Distance of Gray Catbirds
Joey Yu
Faculty Mentor: Professor Lisa Manne

BIO-16
The Detectives in Labcoats: Medical Laboratory Scientists
Ayah Atmani
Faculty Mentor: Professor Adrienne Paez

BIO-17
An Analysis of the Interplay between Obesity, Gut Microbiota, and the Gut-Brain-Axis
Saira Ahmad
Faculty Mentor: Professor Faiza Peetz

BIO-18
Understanding the Relationship between Gut-Brain Axis and Depression; Contemplation of New Treatment for Depression
Branny De Jesus Santana
Faculty Mentor: Professor Faiza Peetz
BIO-19
Microbiome and Anxiety
Sandra Ghobrial
Faculty Mentor: Professor Faiza Peetz

BIO-20
Microbiome-Gut-Brain Axis, Immune Dynamics, and Neurological Well-Being
Anxhela Josifi
Faculty Mentor: Professor Faiza Peetz

BIO-21
Anxhela Josifi
Faculty Mentor: Professor Faiza Peetz

BIO-22
Research on Gut Bacteria in Relationship to ADHD
Mohammad Anas Kasem
Faculty Mentor: Professor Faiza Peetz

BIO-23
Deciphering the Gut-Brain Connection: The Role of Gut Dysbiosis in Inducing Tau Hyperphosphorylation and Alzheimer’s Disease Pathogenesis
George N Khoury
Faculty Mentor: Professor Faiza Peetz

BIO-24
Literature Review Exploring the Gut-Brain-Axis: Gut Microbiome Link with the Brain & Potential Neurological Disorders from Gut Dysbiosis
George N Khoury
Faculty Mentor: Professor Faiza Peetz

BIO-25
Microbiome-Gut-Brain-Axis and Autism
Salwa Munir
Faculty Mentor: Professor Faiza Peetz

BIO-26
Microbiome-Gut-Brain-Axis and Autism, Mechanisms of Action
Salwa Munir
Faculty Mentor: Professor Faiza Peetz

BIO-27
The Intricate Interplay: Exploring the Dynamic Relationship between the Gut-Brain Axis and Microbiota in Human Physiology
Julia Palka
Faculty Mentor: Professor Faiza Peetz

BIO-28
Microbiome Gut Brain Axis and Diabetes
Amina Ziani
Faculty Mentor: Professor Faiza Peetz
BIO-29
The Implication of INO80 Acetylation in Transcriptional Activation
Mary C Butler, Anusha Haris
Faculty Mentor: Professor Chang-Hui Shen

BIO-30
2,4-Dinitrotoluene Responsive Gene Expression Pattern in Pseudomonas Putida
Albert Mackiewicz
Faculty Mentor: Professor Chang-Hui Shen

BIO-31
The Impact of the COVID-19 Pandemic on College Students’ Lives: Exploring the Shift to Online Learning and Its Influence on Study Habits in Conjunction with Technological Advancements in Education
Raghad Alhanoun
Faculty Mentor: Professor Grozdena Yilmaz

BIO-32
African American Female Maternal Mortality in the United States
Tiana Garcia
Faculty Mentor: Professor Grozdena Yilmaz

BIO-33
Effect of Angiotensin Receptor Blockers on the Progression of Diabetic Nephropathy
Andrew W Ngai
Faculty Mentor: Professor Muhammad Zia

BIO-34
Literature Review on Benefits of SGLT2 Inhibitors in Decreasing Cardiovascular Morbidity and Mortality in Individuals with Diabetes Mellitus
Marcelina Rokicki, Joey Yu, Inna Alieva, Alla Gubskiy
Faculty Mentor: Professor Muhammad Zia

BIO-35
Comparative Literature Review of Parkinson’s Disease Intervention
Gadzhi Shakhnavazov, Luciano Spagnuolo
Faculty Mentor: Professor Muhammad Zia

CHEMISTRY

CHM-01
Determining the Background Rate of Congenital Viral Infections in Healthy Males in a Community-based Hospital Population
Daniel Wronski
Faculty Mentor: Professor Leah Cohen

CHM-02
S100A12 and CD36: Investigating their Binding Affinity and the Implications for the Treatment of Inflammatory Diseases
Ahava Collado
Faculty Mentor: Professor Rupal Gupta
CHM-03
Optimizing Photodynamic Therapy for Wound Treatment: Influence of E. coli Concentration and Photosensitizer Presentation
Aya Ashour
Faculty Mentor: Professor Alan Lyons

CHM-04
Exploring the Efficacy of Hydrophobic Glass in Solar Panel Maintenance: The Effect of Time and Temperature on Water Droplet Formation During Condensation
Anthony P Attenborough
Faculty Mentor: Professor Alan Lyons

CHM-05
Lotus Stems as Scaffolds for 3D Cell Culture and Bioengineering
Bora Kupa, Theresa Pagani, Judie Hamdan, Kishan Kallurya, Viktoriya Morozova, Nicole Lamassa, Michael Bucaro
Faculty Mentor: Professor Krishnaswami Raja

CHM-06
Characterization of Solution Blow-Spun PLGA/Turmeric Nanocomposites
Victoria Cannava, Theresa Pagani, Kraya Macwan, Kehinde Aiyegboyin, Kishan Kallurya, Shannon Killen, Zaghloul Ahmed
Faculty Mentor: Professor Krishnaswami Raja

CHM-07
History of Baking
Julia Kalinowsk, Sabrina Musovic, Tasneem Ahsan, Emily Ricciutti, Tasnim Hanaif, Adrianna Catanzaro
Faculty Mentor: Professor Krishnaswami Raja

CHM-08
Propagation of Lotus Plants and Preparation and Characterization of Lotus Stem Biocomposites
Kraya Macwan, Bora Kupa, Joel Christian, Larisa Borruso, Kishan Kallurya, Michael Bucaro
Faculty Mentor: Professor Krishnaswami Raja

CHM-09
Advanced Nanoengineering for Glucose Sensing and Drug Delivery Systems
Sakina Saeed
Faculty Mentor: Professor Shuiqin Zhou

CHM-10
The Influence of Carbon Dots Concentration on the Hydrodynamic Size and Zeta Potential of Chitosan-Carbon Dots Hybrid Nanogels
Salma Balogun
Faculty Mentor: Professor Shuiqin Zhou

CHM-11
VPBA -NIPAM Microgels for Optical Glucose Sensors
Bhakti Dongerkery
Faculty Mentor: Professor Shuiqin Zhou
CHM-12
Estella Kosse
Faculty Mentor: Professor Shiquin Zhou

CSC-01
Quaternion-based Remote Photoplethysmography for Continuous Heart Rate Monitoring
Nicholas Basile, Maxim Kleyer
Faculty Mentor: Professor Sos Agaian

CSC-02
Beneath the Binary: A Journey into Covert Communication
David Liao
Faculty Mentor: Professor Sos Agaian

CSC-03
Pokemon World Champion Edition
Michael A Aurilia
Faculty Mentor: Professor Tatiana Anderson

CSC-04
Cybersecurity Threats to Healthcare Organizations: A Case Analysis of Northwell Hospital
Mirjana Mehmeti
Faculty Mentor: Professor Soon Ae Chun

CSC-05
The Health of AI in the Medical Field
Robert Wetz
Faculty Mentor: Professor Susan Imberman

CSC-06
How Well Can AI Diagnose Using Chest X-Ray Data?
Conor Farrell
Faculty Mentor: Professor Sarah Zelikovitz

CSC-07
From Shopping Cart to Trash Can: A Data-focused Study of How American Families Waste Food
Andi Kolari, Savion E Watson, Gabrielle A Erves
Faculty Mentor: Professor Sarah Zelikovitz

CSC-08
Streamlining Data Analysis of FloodNet Sensors
Marco Korcak, Madison DeGrezia, Justin Zaluk
Faculty Mentor: Professor Zhanyang Zhang

C&I-01
Combining Play-based Mathematical Learning and Computational Skills with the Use of an Online Coding Program, Scratch
Rolla Khass, Bayan Khalil
Faculty Mentor: Professor Judit Kerekes
C&I-02
Curriculum Analysis of Interpreting Linear Functions
Reyam Ghannoum
Faculty Mentor: Professor Wenjuan Li

C&I-03
Computational Storytelling for STEAM Education in the Early Childhood
Rolla Khass
Faculty Mentor: Professor Ting Yuan

ECONOMICS

ECO-01
Economic and Financial Dynamics in Luxury Fashion
Qadar Naeem
Faculty Mentor: Professor Paul Orzechowski

ECO-02
Income Convergence Hypothesis
Seifeldin Awad, Almir Gashi, Ismaila Keita
Faculty Mentor: Professor George Vachadze

ECO-03
Economic Growth and Environmental Degradation
Hailey Germoso, Qadar Naeem, Stephen Teiglee
Faculty Mentor: Professor George Vachadze

ECO-04
Harvesting Growth: A Global Comparative Analysis of GDP Growth and Arable Land Availability
Thomas A Lovascio
Faculty Mentor: Professor George Vachadze

ECO-05
Unraveling the Impact of Income Inequality on GDP Growth Rate and GDP Growth Rate Volatility
Thomas Mishakin, Chazz Chambliss, John Agro
Faculty Mentor: Professor George Vachadze

ECO-06
Natural Resources Impact and Correlation to Economic Growth
Shontel D Nedderman
Faculty Mentor: Professor George Vachadze

ECO-07
The Influence of Political Stability and the Rule of Law on the Tourism Industry
Evelyn J Tamay Flores
Faculty Mentor: Professor George Vachadze

ECO-08
Effect of the COVID-19 Pandemic on Time Spent on Educational Activities
Michael Levitas
Faculty Mentor: Professor Alexandru Voicu
EDUCATIONAL STUDIES

EDD-01
Should Vocational Training Be Included in High School Education?
Lauren Cardieri
Faculty Mentor: Professor Deirdre Armitage

EDD-02
In What Ways, If Any, Can Art Integration Enhance Student Engagement in the General Education Elementary Classroom?
Jaclyn Regina
Faculty Mentor: Professor Marta Cabral

EDD-03
The Important Role of the Rekenrek in Child Development and Number Sense
Jessica Abrajan, Nadeen Ahmad, Francesca Papalia
Faculty Mentor: Professor Judit Kerekes

EDD-04
Number Sense Adventures
Abeer Ramadan, Erin Westgate, Ava Degratto, Lauren Farley
Faculty Mentor: Professor Judit Kerekes

EDD-05
Incorporating an ASL Curriculum for Students in Grades 1-6
Gianna Occhiuto
Faculty Mentor: Professor Russell Rosen

ENGINEERING & ENVIRONMENTAL SCIENCE

EES-01
Experimental Characterization of Plastic Optical Fibers for Under- and Over-Filled Injections
Frank Feng, Ali Abdelmoneim
Faculty Mentor: Professor Neo Antoniades

EES-02
A Novel Optical Test Bed for Measuring the Light Transmission Properties of Plastic Optical Fiber under Bending
Eric Huang
Faculty Mentor: Professor Neo Antoniades

EES-03
Transforming Daily Tasks for Visually Impaired Seniors: Leveraging an Open AI Model-Enhanced Multimodal Dialogue System with Speech Recognition in POF Smart Homes
Jason Zheng, Jackson Haft, Paloma Almonte
Faculty Mentors: Professor Neo Antoniades & Professor Yi Wang (Manhattan College)

EES-04
A Sensitivity Study of the Contribution of Cross Sections in the Calculation of Bone Sample Modulus of Elasticities During Micro Tensile Testing
Lawrence Goldfeld
Faculty Mentor: Professor Jean-Philippe Berteau
EES-05
Extending the Battery Life in the Utility-Scale Solar Power Field
Guohong Zhao, Thanh Truong
Faculty Mentor: Professor Xin Jiang

EES-06
Crochet Stitch Counter
Danielle Aurilia, Fady Soliman
Faculty Mentor: Professor Alfred Levine

EES-07
Plant Watering System
Ezekiel O Okedoyin, Joseph Williams
Faculty Mentor: Professor Alfred Levine

EES-08
Audio Signal Generator to Alter Plant Behavior
Bryan Rudshteyn, Joseph Grillo, Stephen Dorazio
Faculty Mentor: Professor Alfred Levine

EES-09
Emergency Communication App
Warren Shum, Ali Abdelmoneim
Faculty Mentor: Professor Alfred Levine

EES-10
Improving Drinking Water Contamination Detection
Thomas J Strmel, Emmanuel Ijasuyi, Marroquin Marcia
Faculty Mentor: Professor Alfred Levine

EES-11
Temperature Sensor DC Fan with LED as Its Indicator
Abou Bah
Faculty Mentor: Professor Dimitrios Pavlidis

EES-12
Facilitating Working on Wind Turbines Using the Nacelle Wind Turbine as a Learning System
Fady U Frieg
Faculty Mentor: Professor Syed Rizvi

EES-13
A Geospatial Analysis of Sea Level Rise and Flooding of Queens, New York
Alondra Camacho
Faculty Mentor: Professor Sean Thatcher

ENG-01
Emphasis in Speech: The Individual’s Perspective
Thikra Mohammad, Jade Smith, Ashley Mesa, Kayla Goldstein
Faculty Mentor: Professor Jason Bishop

ENG-02
Treatment Efficacy for Childhood Apraxia of Speech: A Review Of Literature
Raijan Peters
Faculty Mentor: Professor Lorenza Colonna
**ENG-03**
Voices Calling from the Wilderness: The Poetry of James Wright and Mary Oliver
Savannah A Cseko
Faculty Mentor: Professor Timothy Gray

**ENG-04**
Reimagining CSI’s Writing Center: Strategies for Removing Stigma and Maximizing Impact
Nicolette Randazzo
Faculty Mentor: Professor Melanie Mcnulty

**ENG-05**
Writing Centers as Sites of Resistance: Promoting Authenticity in Student Writing Processes
Amina Selimaj
Faculty Mentor: Professor Melanie McNulty

**ENG-06**
Under Lock and Key: Analyzing the Detrimental Consequences of Banning Books for Students
Maya Abdul-Rassoul
Faculty Mentor: Professor Lee Papa

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**HST-02**
Indigenous Allies and Smallpox: The True Downfall of Tenochtitlan
Luan Draga
Faculty Mentor: Professor John Wing

**HST-03**
Indigenous Autonomy in Colonial Mexico: Survival and Acculturation Strategies of Native Peoples in the 16th Century
Michael Plishchin
Faculty Mentor: Professor John Wing

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**HISTORY**

**HST-01**
Music in the 1900s: The Comparative Impacts of Duke Ellington and Robert Johnson
Elliot Radov, Daniella Marcus, Teresa Ugozolli
Faculty Mentor: Professor Jane Marcus-Delgado

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**MANAGEMENT**

**MGT-01**
Comparative Analysis of Social Media Approaches: A Case Study of Le Alfré, The Vibe, and SAM Sensory & More
Francesco M Paone
Faculty Mentor: Professor Heidi Bertels

**MGT-02**
Event Management and Student Engagement in Higher Education
Emily R Jimenez
Faculty Mentor: Professor Lauren Mullins
MARKETING

MKT-01
Social Media’s Influence on the Fitness Industry
Gabriella Pipitone
Faculty Mentor: Professor Dan Zhang

MKT-02
Uber vs. Lyft: Who is Winning the Battle in the Ride-Sharing Industry?
Thania Sibri
Faculty Mentor: Professor Dan Zhang

MATHEMATICS

MTH-01
Play-Based Learning that Connects Mathematical Ideas to Real-World Situations
Rolla Khass, Sahani Perera, Rebecca Moller
Faculty Mentor: Professor Judit Kerekes

MTH-02
Addressing Math Anxiety in Middle and High School Classrooms: A Systematic Review
Matthew Keeler
Faculty Mentor: Professor Wenjuan Li

MTH-03
Linear Algebraic Ornithology: On the Dynamic Mode Decomposition
Megan R Trapanese
Faculty Mentor: Professor Andrew C Poje

MTH-04
Analysis of All the End Game Possibilities in Catch-up When There Are 3 or 4 Pieces Remaining
Kenny Chau Gin Feng
Faculty Mentor: Professor Joseph Quinn

MTH-05
Investigation of Symmetric Point Clouds in Topological Data Analysis
Daniel O Hope
Faculty Mentor: Prof. Mikael Vejdemo-Johansson

NURSING

NRS-01
The Impact of COVID-19 on the Mental Health of Nurses Pre-, During, and Post-Pandemic
Keryn Lee
Faculty Mentor: Professor Karen Arca-Contreras

NRS-02
Mental Health and the Context of the COVID-19 Pandemic in the Pediatric Population
Jenna Aljila
Faculty Mentor: Professor Susan J Brillhart
NRS-03
Determining the Relationship in Prevalence of Childhood Obesity and COVID-19
Victoria Gniazdowski
Faculty Mentor: Professor Susan Brillhart

NRS-04
Postpartum Depression
Melinda Bojkovic
Faculty Mentor: Professor Danna Curcio

NRS-05
Childhood Obesity
Thomas Bossert
Faculty Mentor: Professor Danna Curcio

NRS-06
The Interplay between Anxiety and Anesthesia
Nicole Gelfand
Faculty Mentor: Professor Danielle Hunton

NRS-07
Strategies to Promote HPV and Cervical Cancer Screenings in Lesbian and Bisexual Women
Christina Testa
Faculty Mentor: Professor Marianne Jeffreys

NRS-08
Impacts of Overcrowding in the Emergency Department
Julia E Calvo
Faculty Mentor: Professor Jennifer Macchiarola

NRS-09
Sleep Quality of Nurses during the COVID-19 Pandemic: A Literature Review
Bryan Duraku
Faculty Mentor: Professor Magalie Pantermarakis

NRS-10
Literature Review about Healthcare Workers Who Cared for Patients with Coronavirus Disease (COVID-19), to Identify Rates of PTSD, Risk Factors, and Resilience Factors
Nelson A Grajales
Faculty Mentor: Professor An-Yun Yeh

PHILOSOPHY

PHL-01
Structural Injustice: The Bias and Disparities in the Criminal Justice System
Jericee Mitchell
Faculty Mentor: Professor Mark White

PHYSICS & ASTRONOMY

PHY/AST-01
Interactive Physics
Kelly Zyko, Monae Sears, Marko Milosavljevic, Frederick Jones
Faculty Mentor: Professor Charles Liu
POLITICAL SCIENCE & GLOBAL AFFAIRS

PSGA-01
Relationships between Restaurants and Cultures
Sophia Artz, Emma Cahill, Isabelle Wallace
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-02
Migration to New York from the Collapsed Soviet Union
Vlada Kuzina, Max Caputo, Richard Zborovski
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-03
The Great Migration, Jazz, and Race Relations: The Case of the Benny Goodman Quartet
Angelina M Colamarino, Katarina Bartholomew
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-04
Analyzing Public Transportation Infrastructure Disparities between Staten Island and Other Boroughs: A Comprehensive Examination of Cost, Services, Ridership, Reliability, and COVID-related Disruptions
Lawrence Goldfeld, Briana Grijalva, Oscar Contreras
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-05
Fresh Kills Landfill Air Quality and Its Effects On Staten Island
Mireyda Gonzalez, Annisa Desir
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-06
Sports in New York: Unifying People and Cultures
Dylan T Murphy, Ryan Spelman, Danny Smieya
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-07
The Impact of Immigration Status on Healthcare Access and Quality
Nada Nasr, Sarah Ahmed, Luke Zaloom
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-08
Hamilton’s Impact on New York City
Mia Angelina Sinodinos, Gary Fleming
Faculty Mentor: Professor Jane Marcus-Delgado

PSGA-09
Is the Condemnation of Modern-Day Sportswashing in MENA Nations Blown out of Proportion through Orientalism?
Wahaj Ali
Faculty Mentor: Professor Halil Ege Ozen
PSGA-10
Life in Gaza before the Outbreak of Hostilities: A Study of Palestinian Experiences under Siege
Karen Kellieh
Faculty Mentor: Professor Halil Ege Ozen

PSGA-11
Media Representations and the Dehumanization of Palestinians: Examining Patterns of Marginalization and Vilification
Ayat J Odeh
Faculty Mentor: Professor Halil Ege Ozen

PSY-01
Emerging Research on the Specific Mechanisms of Sleep as They Relate to Optimal Productivity and Cognitive Function
Zakary J Blyth
Faculty Mentor: Prof. Natalie Batman-Ratiosyan

PSY-02
Problem Solving Skills in Pre-term vs. Full-term Infants
Aleena Arif
Faculty Mentor: Professor Sarah E Berger

PSY-03
Caregivers Impact on Infant Toy Exploration
Jenna Como, Jordan Swanson
Faculty Mentors: Professor Sarah Berger and Michele Goncalves Maia

PSY-04
Cross-Cultural Comparison of Focused Attention in Infants from the United States, Brazil, and Tajikistan
Tenzing Mathok, Abrar Alzandani
Faculty Mentor: Professor Sarah Berger

PSY-05
A Meta-Analysis of Emotion Recognition, Understanding, and Regulation in Children with Developmental Language Disorder
Nicole Damiani
Faculty Mentors: Professor Patricia J Brooks and Elizabeth Che

PSY-06
Is Media Literacy Associated with Wikipedia Knowledge and Use?
Hunter Peters
Faculty Mentors: Professor Patricia J Brooks and C Donnan Gravelle
PSY-07
Intersectionality: Neurodiversity and LGBTQ+ Identities
Alexandra J Lorenzo
Faculty Mentor: Professor Jennie Datre

PSY-08
What Contributes to Internalized Stigma among Autistic Youth?
Reebu M Geevarughese
Faculty Mentor: Professor Kristen Gillespie-Lynch

PSY-09
Intersectional Representations of Identities in Queer Children’s Literature
Monica Ahuja
Faculty Mentor: Professor Darryl Hill

PSY-10
Race, Empowerment, and Disordered Eating among Women Who Have Experienced Intimate Partner Violence
Andromeda Joseph
Faculty Mentor: Professor Samantha Holmes

PSY-11
Social Media and Attachment Post COVID-19
Cheyanne L Richardson
Faculty Mentor: Professor Alisa Johnson

PSY-12
Gahvora’s Embrace: Effects of Cradling on Nighttime Waking in Tajik Infants
Francesca A Catalano
Faculty Mentor: Professor Lana Karasik

PSY-13
Breastfeeding in Context: Effects of Gahvora Cradling in Tajikistan
Brian Villani
Faculty Mentor: Professor Lana Karasik

PSY-14
Gesture Production in Gahvora-reared Infants in Tajikistan
Kristen F Vonfrolio
Faculty Mentor: Professor Lana Karasik

PSY-15
Nest-Initiation Patterns Demonstrate Differential Nest Attractors in African Naked Mole-Rat Subgroups
Tina Li
Faculty Mentor: Professor Dan McCloskey

PSY-16
Measuring the Impact of Group Work on Individual Assignments
Mariana Luperdi
Faculty Mentor: Professor Dan McCloskey
PSY-17
An AI-Powered Approach to Naked Mole-Rat Nesting Patterns
Stephanie L Tirado
Faculty Mentor: Professor Dan McCloskey

PSY-18
Unlocking Hope: The Efficacy of Therapeutic Interventions in Alzheimer’s Care
Mennah Hegazi
Faculty Mentor: Professor Elizabeth Pete

PSY-19
Afro-Latinx Youth: A Review of Literature and Clinical Recommendations
Kelly Calixto
Faculty Mentor: Professor Lauren Rogers-Sirin

PSY-20
An Independent Study on Disability Using Behavior Analysis
Jacky Zhao
Faculty Mentor: Professor Louis A Rotondo

PSY-21
The Effects of Social Isolation during Adolescence on Dopamine Axon Terminal Density in the Anterior Corpus Callosum
Colin P Alarcon
Faculty Mentor: Professor Leora Yetnikoff

PSY-22
The Effects of Repeated Amphetamine during Adolescence on Dopamine Terminal Innervation of the Corpus Callosum in Adult Mice
Daniel Maronna
Faculty Mentor: Professor Leora Yetnikoff

SOCIOMETRY & ANTHROPOLOGY

SOC/ANT-01
Supermarket Accessibility in Staten Island, New York: 10303 vs. 10314
Keair E Brown
Faculty Mentor: Professor Grace Cho

SOC/ANT-02
Racial Hegemonic Analysis: Exploring Theoretical Racial Structures in the Spanish Caribbean
Daniel Hope
Faculty Mentor: Professor Ismael García-Colón

WORLD LANGUAGES & LITERATURES

WL&L-01
By the Eyes of Primo Levi
Jennifer De Litteris
Faculty Mentor: Professor Chiara Ferrari
<table>
<thead>
<tr>
<th>STUDENT</th>
<th>FACULTY MENTOR</th>
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<th>POSTER ID</th>
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Gianna Occhiuto

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In addition, we gratefully acknowledge the contributions of the many individuals, including student volunteers, who helped make this Conference possible.