

HONORS & UNDERGRADUATE

RESEARCH SCHOLARS POSTER PRESENTATION

WEDNESDAY, MAY 3, 2023
POSTER PRESENTATION
(POSTER JUDGING)

THURSDAY, MAY 4, 2023
POSTER PRESENTATION
(AWARD CEREMONY)

GREETINGS

Russell K. Hotzler

President

Pamela Brown

Provost & Vice President for Academic Affairs

Reginald A. Blake

Associate Provost and Dean of Curriculum and Research

RECOGNITION OF UNDERGRADUATE RESEARCHERS

Honors Scholars

Reneta D. Lansiquot

Director of the Honors Scholars Program

CUNY Research Scholars & Louis Stokes Alliances for Minority Participation

Hamidreza Norouzi

Director of Undergraduate Research

Emerging Scholars

Hamidreza Norouzi

Grant-Funded Projects

Hamidreza Norouzi

Interdisciplinary Projects

Reneta D. Lansiquot

Founding Chair of the Interdisciplinary Committee

BEST POSTER AWARDS

Amanda Almond Assistant Director of the Honors Scholars Program

HONORS IN A REGULAR COURSE

Polyethylene Glycol Diacrylate Degradation Rate Studies

Aaryan Manoj Nair Prof. Ozlem Yasar

MECH 4700: Fluid Mechanics

Machine Learning in Finance

Akinyemi David Apampa Prof. Satyanad Singh

MAT 4788: Financial Risk Modeling

Artificial Intelligence: A New Era

Ali Jawwad

Prof. Robert Brenner

CST 2801: Special Topics in Information Technology

Manned Aircraft vs UAV and LiDAR

Calvin Walters

Prof. Lemuel Morrison

CMCE 2322: Surveying II

The Role of Literary Techniques and Devices in Marketing Strategies

Supriya Singh

Prof. Rebecca Mazumdar

ENG 2001: Introduction to Literature, Fiction

Machine Learning in Finance

Elma Kastrat

Prof. Satyanad Singh

MAT 4788: Financial Risk Modeling

Validating Landsat Satellite Land Surface Temperature Estimations for Use in Urban Green Space Models: A Hypothesis Testing Approach

Ethan Peters

Profs. Holly Carley & Patricia Medina

MAT 2572: Probability and Mathematical Statistics I

Structural Concepts in the Manhattan Bridge

Fatima Ikhmais

Prof. Ben Posel

ARCH 2481: Structures II

VirtualBox Vs Hyper-V

Gustavo Quijada, Hugh Clarke, & Paul Jachimowiz Prof. Fangyang Shen

CST 3615: Enterprise Applications

Pocket Arduino-Based Smart Weather Station with Bluetooth Connectivity

Jason Jara

Prof. Farrukh Zia

CET 4711: Computer Controlled System Design

An Evolving Wine Trend: Canned Wines

Kemoya Mcleod

Prof. Adrian Murcia

HMGT 2402: Wine and Beverage

Management

Racial Bias in Health IT

Kimora Toussaint Prof. David Lee

COM 3503: Health, Media and Communication Technology

Designing, Fabrication, and Testing of a Truss

Kingston Ditsch
Prof. Kheireddine Bettahar

MECH 1234: Statics and Strength of Materials

Reflecting on conflict management in a healthcare setting

Klaudia Jones
Prof. Kelsey Binion
COM 2403ID: Health Communication
Interdisciplinary

Hammarby Sjöstad Urban Eco-district: Lessons learned and possible implementation in NYC

Ryan Gangadin Prof. Abraham Gonzalez ARCH 3551: Sustainability: History and Practice

Game Jam Game: Loops

Luke Hahn
Prof. Tamrah D. Cunningham
Mentor: Dr. Reneta D. Lansiquot
CST 4900: Internship in
Computer Systems

Climate Change and the Wine Industry

Madelyn Kelly Prof. Adrian Murcia HMGT 2402: Wine and Beverage Management

Honors Recording Review Paper

Matthew Ramosa
Prof. Michael Smith
MUS 1210: Musical Styles

Achieving Net Zero Energy

Michaylah Mam Profs. Michael Loo & Robert Zagaroli ARCH 1231: Building Technology I

CUNY RESEARCH SCHOLARS PROGRAM (CRSP) & LOUIS STOKES ALLIANCES FOR MINORITY PARTICIPATION (LSAMP)

Designing a Student Questionnaire to Research Issues of Retention in the Communication Design AAS/BFA Program

Abdullah Momin & Frank Lema Prof. Daniel Wong

Animal Research and Mother Cells

Fernando Santana Perez Prof. Lubie Alatriste

Bird Identification via DNA Extraction

Jaden Burke Prof. Olufemi Sodeinde

Business Information Security Office (BISO)

Hudda Siddique Prof. Patrick Slattery

Code Cyber: Using an AI model to Analyze the Rate of Inflation in the United States within a Statistical & Data Science Context

Kazi Tasin Prof. Patrick Slattery

X-Ray & MRI Theory for Mineral-Rich Fruits Affected by Heat Waves During Climate Change

Somdat Kissoon Profs. Subhendra Sarkar, Zoya Vinokur & Lillian Amann

Deep Learning Application: Voice Recognition

Jesus Reyes Prof. Marcos Pintos

Development of Practical Method to Quantify Infiltration Rate Through Building Entrance

Steven Boodram, Louidelson Deguerre & Ferasuddin Siddiqui Prof. Daeho Kang

Comparing Skin Entrance Doses in Abdominal X-Ray With and Without Shielding

Lauren Gordon, Liana Reid, & Ollana John Prof. Anthony DeVito

Green and Passive Architecture Prototyping

Mohammed Jalloh Prof.Alexander Aptekar

Green Roof Media Parametric Study Methods

Yehya Elfgeeh Prof. Ivan Guzman

City Prime: A Heteromorphism Robot

Iqra Khan Prof. Xiaohai Li

How Will Climate Change Affect the Future

Ashanti Belone Prof. Farrukh Zia

Additive Manufacturing Process Development of Geopolymer Based Habitable Construction on Space

Husnain Khan Prof. Akm Samsur Rahman

Importance of Incorporating Computer Ethics in Computer Curriculum

Tiya Williams Prof. Elizabeth Milonas

Classifying Public Companies by Sector Using a Machine Learning Tree Model in R

Shahat Alam Prof. Nan Li

Heat Shocked Porous Media: X-ray Experiments to Reveal Abnormal Nutrient Distribution in Mineral-Rich Fruits

Aravis McBroom, Aaliyah Salmon & Joanna Syska Profs. Subhendra Sarkar & Eric Lobel

Lookism: An Investigation Into Discrimination in Workplace Practices

Shana Ramnarain Prof. Alyssa Dana Adomaitis

The Impact of Climate Change

Junxi Chen Prof. Ann Ngana Mundeke

Studying Factors of Environmental Injustice and Ways to Achieve Equity

Arham Hussain Prof. Marzi Azarderakhsh

STEM or Social Studies: Online Education Preference Based on Subject Area

Fatimah Asad Prof. Lubie Alatriste

Database Migration: A Study of Challenges for DBMS Users and Administrators

Rex Wong Prof. Patrick Slattery

The Impact of Polio onto the Modern US Healthcare System

Gabriel Martinez
Prof. Jose Martinez

The Motivating Factor Towards a Career in Radiologic Technology & Medical Imaging at New York City College of Technology

Makadeer Kassim Prof. Jennett Ingrassia

Potential Application of Alkali Halide Filters for Imaging of Key Minerals in Fresh Porous Fruits

Angela Moore & Katie Tam Profs. Subhendra Sarkar & Evans Lespinasse

Doorfront.org: Using NYC Open Data to Improve Accessibility for People with Mobility Impairments in New York City

Said Naqwe Prof. Patrick Slattery

The impact of artificial intelligence on business operations

Valon Dellovci Prof. Patrick Slattery

Augmented and Virtual Reality: Advancement of technology and its impacts on medicine, education, and other industries

Yassine Chahid Prof. Patrick Slattery

EMERGING SCHOLARS

Polyethylene Glycol Diacrylate Degradation Rate Studies

Aaryan Nair, Freddy Ortega, Ian Simpson, & Naeem Kotadia Prof. Ozlem Yasar

Identity Only Politics as Technologies of Power: Latinx Population in the United States and the fight for Electoral Sway

Aayiana Marrero, Emily Bieber, & Sahar Nasim Prof. Xavier Alvarez

3D Printing with Lunar Geopolymer

Adrian Mckinnon
Prof. Akm Rahman

Information Systems/Technology OER Textbook Enrichment

Ahjahla Murphy, Denitsa Dineva, & Malak Alammari Prof. Patrick Slattery

Beyond the Egyptian Pharaohs

Aia Mahmoud Prof. Jieun Yang

Mirroring X ray Scattering and Epilepsy MR for Comparable Signaling – A Meta Analysis of Mirror Foci in Temporal Lobe Epilepsy: a Hard Problem in Radiology

Allison Velasquez Prof. Subhendra Sarkar

Mapping the Campus

Alyssa Duran & Wilna Michel Prof. Anne Leonhardt

ARCscholars

Amal Toaimah, Catherine Valenzuela, Erickson Diaz, Kaylynn Daoud, Kevin Valencia, & Vincent Zheng Prof. Naomi Langer-Voss

Radiomics of Neurodegeneration in Alzheimer's: MRI, MRS & PET

Anam Riaz, Anjalee Rabbani, & Jennifer Padilla Profs. Subhendra Sarkar & Duke Shereen

Employment restrictions and psychosocial distress among immigrant women in the US

Annique Matthews Prof. Smita Dewan

National Heroes of Jamaica

Anthonio Forbes Prof. Elizabeth Parks

Critical Educational AutoEthnographies

Asset Mballo & Edgar Castillo Prof. Mery Diaz

Compton or Inelastic X-ray Scattering in the Presence of Iodinated and Gadolinium Contrast Media May Image Surface States or Texture in Bulk Animal Protein Matrix

Ayesha Arooj, Derbie Desir, & Robert O'Brien Prof. Subhendra Sarkar

Enrollment trends in Radiologic Technology Program at City Tech for X-ray vs Others Imaging Modalities

Bich Pham Prof. Lillian Amann

The Other Face of Social Media

Bryant Ariza Prof. Elizabeth Parks

The Living Breakwaters PDR Efforts: ECOncrete Resource Analysis

Calvin Walters Jr. Prof. Anne Sowder

Deep Learning approach to diagnosing Cancer

Charlene Chung Prof. Pegah Khosravi

Exactly Solvable Two-Body Problem in Two-Dimensional Quantum Mechanics

Claudio Malvino, Jianning Luo Prof. Roman Kezerashvili

Country Tech: The Rebirthing of a Windswept Dairy Barn in the Catskill Mountains

Dahrel Cadore, Felix Alvarado, & Rokhaya Ndiaye Prof. Kenneth Conzelmann

Potential application of alkali halide filters for imaging of key minerals in fresh porous fruits

Daler Djuraev Profs. Subhendra Sarkar, Zoya Vinokur, & Lillian Amann

Augmented Reality With Membit

Daniel Greene & Katherine Alas Prof. Jenna Spevack

Characterizing a Calpain gene, TTHERM_00486970, Belonging to Tetrahymena Thermophila

Derbie Desir Prof. Subhendra Sarkar

Machine Learning in Finance

Elma Kastrat Prof. Satyanand Singh

How is "Al" influencing our generations' engagement in education and recruitment systems?

Ethan Pruzhansky, Jason Lin, & Tanvir Rahman Prof. Patrick Slattery

Ethical and Social Issues in Information Systems

Fahima Zannat Prof. Patrick Slattery

Design and Implementation of a Restaurant Website Using HTML, CSS, and JavaScript

Fahmeda Khanom & Touheda Khanom Prof. Farrukh Zia

Language Bias on Campus

Israt Korno, Sumiya Jahan Prof. Lubie Alatriste

Number Theoretic Arithmetic Functions and **Dirichlet Series**

Ivan Morozov Prof. Satyanand Singh

Military invasion of Ukraine and World's Perspective

Jean Lucas Prof. Elizabeth Parks

Delusional Types in Forensic Psychiatric Patients

Alyssa Ramsawak, John Felix, & Margarita Aleshka Prof. Daniel Capruso

Control the VEX Robot With Image Processing

Justin Bartholomew Prof. Lili Ma

Grenada Mental Restorative Space

Kada Clyne Prof. Phillip Anzalone

Global Radiological Technologist Licensing Requirements

Katelyn Lopez Prof. Patrick Slattery

Augmented Reality with Membit

Katherine Alas Prof. Jenna Spevack Spevack

Types of Cyber Attacks and Incident Responses

Kaung Myat Thu Prof. Patrick Slattery

Social Media Impact on Young Minds: The Impact of Trends and Legislation

Keelyany Gomzales Prof. Patrick Slattery

Artificial Turf and Health Hazards

Le Van La Prof. Vishwas Joshi

Opportunities in Sustainable Architecture

Ludje Henry Prof. Elizabeth Parks

Investigating the Taste Quality of Hydroponic Vegetables in Culinary Applications for Year-Round Availability

Madelyn Kelly Prof. Tracy Zimmermann

Information Systems/Technology OER Textbook Enrichment

Malak Alammari Prof. Patrick Slattery

New Gender Identity in the Fashion Global Workforce

Malik Lee Prof. Alyssa Dana Adomaitis

Exploring Methods for Recycling Filament Waste in 3D Printing

Max Rios Carballo Prof. Angran Xiao

A Deep Learning Approach to Diagnostic Classification of Prostrate Cancer Using MR Images

Mehnaz Hoque Prof. Pegah khosravi

Driving Forces behind choosing radiological technology as a career

Mikhail Kun, Peber De Jesus, & Tatiana Ryzhakova Prof. Zoya Vinokur

Applications of Sperner's Lemma

Neo Johnson Prof. Ariane Masuda

Fabrication of Monolayered TMX Materials for Quantum Connectors

Pedro Sotomayor Prof. Vitaliy Dorogan

Brain Tumor Detection and Classification from MRI Images Using a Convolutional Neural Network Model

Raecine Greaves Prof. Pegah Khosravi

Machine Learning Galaxy Morphology

Rene Coronel Prof. Ari Maller

Brain tumor detection using a deep learning algorithm

Robert Texidor Prof. Pegah Khosravi

X-ray and MRI Theory for Mineral-Rich Fruits Affected by Heat Waves During Climate Change

Robert O'Brien Prof. Zoya Vinokur

Valence Electron Grazing- Compton Filters to Achieve Hyperspectral X-ray Imaging without Sample Overheating

Sabina Rakhmatova & Zuoni Ke Prof. Subhendra Sarkar

Doorfront.org: Using NYC Open Data to Improve Accessibility for People with Mobility Impairments in New York City

Said Naqwe Prof. Patrick Slattery

Open Educational Resource (OER) Textbook Update Process and Tools

Shaquan Larose Prof. Patrick Slattery

The Golden Ratio in Architecture

Sofia Bilbao Prof. Ariane Masuda

Job Search Skills that Needed for Data Roles

Svetlana Idrovo Shindler Prof. Patrick Slattery

Classification of Normal versus Pneumonia from Chest X-ray Using an Al Model

Tassadit Lounes Prof. Pegah Khosravi

Smart Gun

Tomas Biterski Prof. Masato Nakamura

The impact of artificial intelligence on business operations

Valon Dellovci Prof. Patrick Slattery

An Alternative Approach to Urban Renewal

Yanfang Liang Prof. Michael Duddy

Augmented and Virtual Reality: Advancement of technology and its impacts on medicine, education, and other industries

Yassine Chahid Prof. Patrick Slattery

Analyzing a Winning Strategy in Sperner's Game

Yitao Li Prof. Ariane Masuda

Image Recognition Android App

Zhenghua Li Prof. Subhendra Sarkar

GRANT-FUNDED PROJECTS

NSF IUSE GEO Grant # 2023174

Profs. Abdou Bah, Reginald Blake, Masato Nakamura, Hamidreza Norouzi, & Ms. Julia River

Investigating the Uncertainties of Forecasting NE Cold Season Precipitation in Numerical Weather Prediction Models

Anam Riaz

Mentor: Yanna Chen

Profs. Reginald Blake & Hamidreza Norouzi

Analysis of Lake Azuei Temperature Variability using MODIS Aqua Observations

Samuel Hector Leriche Profs. Abdou Bah, Reginald Blake, & Hamidreza Norouzi

Geological Mapping of Landfill Gas Emissions Greenhouse Gases

Richard Rohoman Prof. Masato Nakamura

Water Quality Monitoring of Lakes Using Satellite Remote Sensing

Anthony Romero Profs. Marzieh Azarderakhsh, Reginald Blake, & Hamidreza Norouzi

NSF REU Grant # 1950629

Profs. Reginald Blake, Hamidreza Norouzi, & Ms. Julia Rivera

Potential Satellite Imagery for Detecting Harmful Algal Blooms Over New York Lakes

Sulayman Konateh Profs. Marzieh Azarderakhsh, Reginald Blake, & Hamidreza Norouzi

Analyzing Heat Waves in New York City and Sub-urbans Using Historical Weather Station Data

Sameeha Malikah Mentors: Stephanie Avila & Gabriella Garcia Profs. Naresh Devineni & Tarendra Lakhankar

Bioinformatic Identification of Interspecies Nucleotide Sequence Divergence Within Putative OTX2 Transcription Factor Binding Sites in the ThrbICR Retinal Enhancer Element

Laure Ouoba Mentor: Mykel Barrett Prof. Arthur Ford

Bioinformatic Identification of Interspecies Nucleotide Sequence Divergence Within Putative OTX2 Transcription Factor Binding Sites in the ThrbICR Retinal Enhancer Element

Nafisa Tabassum Mentor: Mykel Barrett Prof. Arthur Ford

Utilizing Machine Learning to Comprehend the Spatial Consistency of Floods in the United States, their Climate Correlations and Predictability

Stephen Rosario Mentor: Ololade Alonge Prof. Naresh Devineni

Effective, Structured, Summer Research Teams: Learning Coding Skills by Studying Neighborhood Scale Urban Heat Island Mitigation Strategies

Lillian Ameling Mentor: Carolien Mossel Profs. Reginald Blake & Hamidreza Norouzi

INTERDISCIPLINARY PROJECTS

Game Jam Game: Loops

Luke Hahn Prof. Tamrah D. Cunningham Mentor: Dr. Reneta D. Lansiquot

CST 4900: Internship in Computer Systems

Racial Bias in Health IT

Kimora Toussaint Prof. David Lee

COM 3503: Health, Media and Communication Technology

Reflecting on conflict management in a healthcare setting

Klaudia Jones Prof. Kelsey Binion

COM 2403ID: Health Communication Interdisciplinary

Achieving Net Zero Energy

Michaylah Mam
Profs. Michael Loo & Robert Zagaroli
ARCH 1231: Building Technology I

Database Migration: A Study of Challenges for DBMS Users and Administrators

Rex Wong Prof. Patrick Slattery

Doorfront.org: Using NYC Open Data to Improve Accessibility for People with Mobility Impairments in New York City

Said Naqwe Prof. Patrick Slattery

The impact of artificial intelligence on business operations

Valon Dellovci Prof. Patrick Slattery

Augmented and Virtual Reality: Advancement of technology and its impacts on medicine, education, and other industries

Yassine Chahid Prof. Patrick Slattery

PHYS 1002ID: Introduction to Physics of Natural Disasters Prof. Abdou Bah

EVs and the Effect on Climate Change

John Anthony, Noel Nova, Niamke Cole, & Daniel Rojas Prof. Abdou Bah

Turkey and Syria 2023 Earthquakes

Lukas Klertiashvili, Kester Todd, Gordon Zheng, Sakuna Rai, Jesse Huggins, & Anthony Romero Prof. Abdou Bah

The 2022 Pakistan Flood: Causes and Socio-Economic Impacts

David Arriaga, Joseph Andrango, Gamage Garusinghe, Alexis Basarte, & Eusebe Piewe Louis Prof. Abdou Bah

The Effects of 2022 Hurricane Ian on America Coastlines

Michaelis Photiou, Yokai Wu, Nasrath Chowdhury, Agah Ibrahim Akram, & Brian Bacuilima Prof. Abdou Bah





Honors Scholars Program

Student Academic Conference



What the Tides May Bring: Place, Identity and Environmental Justice

Where: A105- New Academic Building

When: May 4th, 9am-12:30pm



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THE 38TH SEMI-ANNUAL DR. JANET LIOU-MARK HONORS AND UNDERGRADUATE RESEARCH SCHOLARS POSTER PRESENTATION

To all the dedicated professors for mentoring students. A heartfelt thank you for making this event a successful one.

SPECIAL THANKS TO

Prof. Abdou Bah Mr. Ryan Chen Prof. Tamrah D. Cunningham Mr. John Momeni Ms. Chioma Okoye Ms. Kimberly Ramgopal Ms. Julia Rivera

A SPECIAL THANK YOU TO THE DEDICATED POSTER JUDGES:

Marzi Azarderakhsh

Yu-wen Chen

Tamrah Cunningham

Susan Davide

Nanette Johnson

Ivana Jovanovic

Ellen Kim

David Lee Alberto Martinez

Elizabeth Milonas

Annie Ngana

Nandi Prince

Meg Ray

Noemi Rodriguez

Alba Rossi-George

Satyanand Singh

Mary Tedeschi

Zoya Vinokur

Khrystyna Vyprynyuk

Robert Walljasper

Tracy Zimmermann

A special recognition and appreciation to Or Szyflingier for designing this program.