

SEMI-ANNUAL



**THE HONORS  
AND  
UNDERGRADUATE  
RESEARCH SCHOLARS  
POSTER PRESENTATION**

**WEDNESDAY, DECEMBER 4, 2019**

10:00AM - 4:00PM

NEW ACADEMIC BUILDING LOBBY

**THURSDAY, DECEMBER 5, 2019**

10:00AM - 12:30PM

NEW ACADEMIC BUILDING LOBBY

**AWARDS CEREMONY**

BEGINS AT 12:30PM

LIBRARY BUILDING AMPHITHEATER



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REGULAR COURSE

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GRANT-FUNDED  
PROJECTS



Distinguished Honorary Member Lauri Aguirre  
Chapter Advisor Professor Tamrah D. Cunningham  
October 17, 2019



NSCS Reception  
Chapter President Joya Biswas  
October 17, 2019



NSCS Reception  
October 17, 2019

# AWARDS CEREMONY

DECEMBER 5, 2019 - 12:30 PM  
LIBRARY AMPHITHEATER

## Greetings

**Russell K. Hotzler**

President

**Bonne August**

Provost and Vice President  
for Academic Affairs

**Pamela Brown**

Associate Provost

## Recognition of Undergraduate Researchers

**Honors Scholars**

Reneta D. Lansiquot

**CUNY Research Scholars**

Hamidreza Norouzi

**Emerging Scholars**

Hamidreza Norouzi

**LSAMP Scholars**

Hamidreza Norouzi

**Grant-Funded Projects**

Janet Liou-Mark

## Best Poster Awards

Jean Hillstrom

## CUNY Academic Works for Undergraduate Research

Monica Berger

# HONORS IN A REGULAR COURSE

## **Quit and Risk Reduced**

Rana Abdelnaby  
Prof. Maria Hitchings  
COMD 3601: Information Design I

## **Forensic Investigation of Structural Collapse - Harbor Cay Condominium Complex**

John Airis  
Prof. Rostami Vahid  
CMCE 2416: Elements of Structural Design -  
Concrete

## **Overview of Student Needs & Readiness in Working with Persons with Substance Abuse Issues at Professional Internship Sites**

Nashrin Akter  
Prof. Charisse Marshall  
HUS 1203: Human Services Seminar

## **The Disconnect Between Family Law and Immigration Law in the United States that Allows for Undocumented Immigrant Parents of Minors to Lose Their Parental Rights After Being Separated at The Border**

Mercedes Aznar  
Prof. Sara Schechter  
LAW 2303: Family Law

## **Long-Term Effect of Very High Fat Diet to Study the Synergism in Hormonal and Cellular Changes in Male Mice**

Ilholm Bakiyev  
Prof. Christopher Blair and  
Sanjoy Chakraborty  
BIO 2450: Genetics

## **The Psychology of Hurricane Warnings: Why they are Sometimes Ignored**

Christina Bhawanidin  
Profs. Pa Her and Howard Sisco  
SBS 2000ID: Research Methods for the  
Social and Behavioral Science

## **Overview of Student Needs & Readiness in Working with Persons with Substance Abuse Issues at Professional Internship Sites**

Joya Biswas  
Prof. Charisse Marshall  
HUS 1203: Human Services Seminar

## **To Breathe, or not to Breathe. The Structural Effects of Carbon Monoxide on Hemoglobin**

Justin Bunyan  
Prof. Armando Solis  
BIO 3601: Bio Chemistry

## **Not Just a Pretty Face; Fashion Innovators who are Business Savvy**

Valerie Checo  
Prof. Denise Sutton  
BUF 1101: Introduction to the  
Fashion Industry

## **A Current Interpretation of Robert Frank's 1950's New York**

Anna Crull  
Prof. Anita Giraldo  
COMD 1340: Photography I

## **Know Your Body**

Maria DeLeon  
Profs. Alberto Martinez and  
Niloufar Haque  
CHEM 3622: Inorganic Chemistry

## **An Overview of the Healthcare Delivery System in the State of Mississippi**

Cerlyn Ellis  
Prof. Katherine Gregory  
HSA 3602: Health Services Management II

## **Income Disparities between Levels of Management in the Workplace in the US**

Cerlyn Ellis  
Prof. Hugh Fox  
ECON 2403: Labor Management Relations

## **Part I: Comparative Analysis Between Natural and Ceramic Teeth**

Ibeth Erazo

Prof. Daniel Alter

RESD 2314: Restorative Dental Ceramics II

## **Conservation of Linear Momentum**

Jose Flores

Profs. Darya Krym and Lefung Leng

PHYS 1434: General Physics II

## **EFS Active Directory**

Angela Halstead

Prof. Rudolph Defreitas

CST 2405: System Administration  
(Windows)

## **Doctor-Patient Communication and Patient Continuity of Care: A Mixed-Methods Study of Primary Care Services in NYC**

Kavita Hariprashad

Prof. Noemi Rodriguez

HSA 4740: Health Research Methods

## **Part I: Comparative Analysis Between Natural and Ceramic Teeth**

Aneeza Hussian

Prof. Daniel Alter

RESD 2314: Restorative Dental Ceramics II

## **Fibonacci Algorithms and its Applications in Artificial Intelligence Software**

Jason Jara

Prof. Wladina Antoine

MAT 1475: Calculus I



Workshop 1: Writing Abstracts for Research Projects  
October 3, 2019

## **Effects of Educational Technology Integration in a Classroom Setting: A Case Study on Introductory Mathematics Classes**

Clinton Kanyali  
Prof. Janet Liou-Mark  
MEDU 2901: Peer Leader Training in  
Mathematics

## **Modification of SuperHERO Arm Gripper with 3D Printing**

Joycephine Li  
Prof. Farrukh Zia  
CET 4711: Computer Controlled  
System Design

## **The Psychology of Hurricane Warnings: Why They Are Sometimes Ignored**

Jeevanie Liliah  
Profs. Courtney Snavelly and  
Howard Sisco  
CST 2403: Introductory C++ Language  
Programming Part I

## **The Female or Male Math Professor: Student Perceptions**

Akeem Louigarde  
Prof. Janet Liou-Mark  
MEDU 2901: Peer Leader Training in  
Mathematics

## **Long-Term Effect of Very High Fat Diet to Study the Synergism in Hormonal and Cellular Changes in Male Mice**

Bushra Miah  
Profs. Marie Chalbot and  
Sanjoy Chakraborty  
BIO 1201: Biology II

## **Modular Design of Elevator Control System**

Orouba Tagout  
Prof. Farrukh Zia  
CET 4711: Computer Controlled  
System Design

## **Letterforms as Abstract Visual Communication Elements**

Tatiana Ribeiro  
Prof. David Lucas  
COMD 1257: Typographic Design

# CUNY RESEARCH SCHOLARS

## **The Ethical Implications of Genetic Engineering and the Lack of Mainstream Media Coverage**

Aliff Abad  
Prof. Katherine Gregory

## **Design and Prototyping of a Speed Reducer GearBox**

Nafisa Abubakar  
Prof. Angran Xiao

## **A Self-Driving Toy Car Using Deep Learning**

Fahim Ahmed  
Prof. Benito Mendoza

## **A Self-Driving Toy Car Using Deep Learning**

Mubtasem Ali  
Prof. Benito Mendoza

## **RoboQueen 3D**

Anny Baez Silfa  
Prof. Farrukh Zia

## **3D Printed Computer Circuits**

Sultana Begum  
Prof. Ohbong Kwon

## **Talk and Roll Bot**

BingFang Chen  
Prof. Farrukh Zia

## **Degradation rate Calculations of PDMS**

Ibrahim Chouman  
Prof. Ozlem Yasar

## **Calculus Exploration using R Software to Make Prediction**

Showmik Chowdhury  
Prof. Satyanand Singh



Advancing Library Research Techniques  
October 10, 2019

## **The Effect of Prebiotic on Staphylococcus Attachment**

Maria DeLeon  
Prof. Niloufar Haque

## **Physico-Chemical Modeling, Optical Microscopy and Near-Infrared Spectroscopic Characterization of Model Biomaterials**

Aldona Gjoni  
Profs. Subhendra Sarkar, Zoya Vinokur  
and Chen Xu

## **How Consumers Are Motivated to Deal with their Genetic Health Marker Results**

Nadia Gordon  
Prof. Katherine Gregory

## **Fabrication and Imaging Characterization of Poly (Dimethyl Siloxane)/SiC Nano-fillers and Electrospun Poly (Lactic Acid) Samples as Model Biomaterials**

Viorica Gutu  
Profs. AKM Rahman, Subhendra Sarkar  
and Zoya Vinokur

## **Correlation of Open Lab X and Students' Final Grades**

Fahameda Hassan  
Prof. Zoya Vinokur

## **Comparative Analysis Between Natural Teeth and Ceramic Teeth**

Aneeza Hussain  
Prof. Daniel Alter

## **Non-Destructive Testing on Concrete**

Raadiya James  
Prof. Navid Allahverdi-Pur

## **Design and Prototyping of a Speed Reducer GearBox**

Mathew Jurado  
Prof. Angran Xiao

## **Machine Learning Application in Physical Computing**

Joan Beatrice Ladaban  
Prof. Farrukh Zia

## **Correlation of Open Lab X and Students' Final Grades**

Mary Lee  
Prof. Zoya Vinokur

## **Augmented Reality Gaming: Harnessing the Real-world Environment to Enhance Game Interactions**

Steven Li  
Prof. Benito Mendoza

## **Machine Learning Method used to Predict Diabetes**

Saminur Miah  
Prof. Marcos Pinto

## **Mechanical Characterization of Nano-material Doped Polydimethylsiloxane (PDMS)**

Marc-Jason Michaud  
Prof. Ozlem Yasar

## **Implication of Local Weather on Heat Transfer Rates by Infiltration in Summer**

Kyanguim Park  
Prof. Daeho Kang

## **A Data Visualization System for Wireless Sensor Network Using Open Source Platform Node Red**

Matthew Samaroo  
Prof. Xinzhou Wei

## **PDMS Degradation Rate Studies**

Matthew Sanchez  
Prof. Ozlem Yasar

## **Physico-Chemical Modeling, Optical Microscopy and Near-Infrared Spectroscopic Characterization of Model Biomaterials**

Amina Shahbaz  
Prof. Subhendra Sarkar,  
Zoya Vinokur and Chen Xu

## **Fabrication and Imaging Characterization of Poly (Dimethyl Siloxane)/SiC Nano-fillers and Electrospun Poly (Lactic Acid) Samples as Model Biomaterials**

Tetiana Soloviova  
Prof. AKM Rahman,  
Subhendra Sarkar and Zoya Vinokur

## **Tall and Roll Bot**

Yipenca Tang Liang  
Prof. Ohbong Kwon

## **A Self Driving Toy Car Using Deep Learning**

Suleyman Turac  
Prof. Benito Mendoza

## **Non-Destructive Testing on Concrete**

Shaylin Venitelli  
Prof. Navid Allahverdi

## **A MQTT Protocol Based Internet of Thing Application using Arduino**

Yani Acham Yaou Zakari Maidama  
Prof. Xinzhou Wei

# EMERGING SCHOLARS

## Assessing Participants' Feedback to Dental Screenings and Hygiene Care Provided by City Tech's Dental Hygiene Students

Alona Abbullaieva  
Prof. Susan Davide

## Research on Optimization of Faculty Office Hours

Fabliha Afia  
AP. Pamela Brown

## Lasso Regression

Fabliha Afia  
Prof. Nan Li

## Closed Cavity Facades and New Energy Regulations on Buildings in NYC

Rafia Amin  
Prof. John Neary

## Closed Cavity Facades and New Energy Regulations on Buildings in NYC

Tasfia Amir  
Prof. John Neary



Developing and Delivering  
Effective Research Presentations  
October 24, 2019

## **Redefining Culture: A New Continuum of Inclusiveness**

Arsha Attique  
Prof. Alyssa Adomaitis

## **Differential Effects of High Fat Diet (HFD) in Male and Female Mice**

Ilhom Bakiyev  
Prof. Sanjoy Chakraborty

## **NYC CO2 Caps**

Evan Banks  
Prof. Navid Allahverdi

## **Hybrid Green Technology Systems for New York City Roof Tops: Green Roofs and Solar Energy Combos**

Ilana Berger  
Prof. Ivan Guzman

## **The Psychology of Hurricane Warnings: Why are They Sometimes Ignored**

Christina Bhawanidin  
Prof. Howard Sisco

## **Overview of Student Needs & Readiness in Working with Persons with Substance Abuse Issues at Professional Internship Sites**

Joyas Biswas  
Prof. Charisse Marshall

## **The Logical Minimalism Algorithm Applied to First-order Logic Axiom Sets**

Aurkaw Biswas  
Prof. Brad Isaacson

## **A Study on Building Occupancy Detection with Sensor Data Analysis**

Brian Borrero  
Prof. Li Geng

## **Static Analysis of Structural Members**

Amani Calderon  
Prof. Fhrad Alinaghizadeh

## **The Role of Calpains in *T. Thermophila***

Collette Cameron  
Prof. Ralph Alcendor

## **Electric Vehicle Mobility**

Andois Carrasco  
Prof. Yu-Wen Chen

## **Ball Catching with Omni-directional Wheeled Robot Utilizing Computer Vision and Neural Network**

Mason Chen  
Prof. Ali Harb

## **MR Imaging of Contamination and Degradation of Model Biological Tissues - A Feasibility Study**

Daniela Costin  
Prof. Subhendra Sarkar

## **Redefining Gender: A New Continuum of Inconclusiveness**

Chayange Davis-Levis  
Prof. Alyssa Adomaitis

## **Assessing Participants' Feedback to Dental Screenings and Hygiene Care Provided by City Tech's Dental Hygiene Students**

WenWen Dong  
Prof. Susan Davide

## **Burnside-Polya Counting Method**

Matthew Edelmann  
Prof. Satyanand Singh

## **Comparative Analysis Between Natural Teeth and Ceramic Teeth**

Ibeth Erazo  
Prof. Daniel Alter

## **Voice Controlled Augmented Reality: A Comparison of Speech-Recognition Tools for AR Applications**

Juan Estrella  
Prof. Benito Mendoza

## **Mechanical Characterization of Nano-material Doped Polydimethylsiloxane (PDMS)**

Deldrys Gomez Reynoso  
Prof. Ozlem Yasar

## **Entertainment Technology**

Conny Gordon  
Prof. Tamrah Cunnignam

## **Creation in Art Architecture and Geometry Wrapped in Orgami**

Oliver Hadi  
Profs. Anne Leonhardt and  
Satyanand Singh

## **Doctor-patient Communication and Patient Continuity of Care: A Mixed Methods Study of Primary Care Services in NYC**

Kavita Hariprashad  
Prof. Noemi Rodriguez

## **Closed Cavity Facades and New Energy Regulations on Buildings in NYC**

Taylor Hernandez  
Prof. John Neary

## **Differential Effects of High Fat Diet (HFD) in Male and Female Mice**

Brian Holliday  
Prof. Sanjoy Chakraborty

## **Implementation of Sensors in Assistive Technology Mobile Robot**

Jannat Hoque  
Prof. Farrukh Zia

## **Examination of Schiff Base Condensation Reactions of Aromatic Amine Compounds with Cyclohexanone and Related Carbonyl Compounds**

Taline Ingram  
Prof. Peter Spellane

## **Burnside-Polya Counting Methods**

Dahiana Jimenez  
Prof. Satyanand Singh

## **Spectroscopy Study of the Interaction of Multi-Target Compounds with DNA**

Baljit Kaur  
Prof. Alberto Martinez

## **Know Your Body**

Diana Khass  
Prof. Niloufar Haque

## **Static Analysis of Circular Plates under Mechanical Loads**

Harpreet Lalia  
Prof. Fhrad Alinaghizadeh



Cultivating Fine Dining Etiquette  
October 30, 2019

### **Burnside Pólya Counting Methods**

Gabrielle Langston  
Prof. Satyanand Singh

### **Circulate Laser Engraver**

Mandy Li  
Prof. Angran Xiao

### **SuperHERO Assistive Technology Mobile Robot - Hardware Implementation**

Joycephine Li  
Prof. Farrukh Zia

### **The Psychology of Hurricane Warnings: Why are They Sometimes Ignored**

Jeevanie Lillah  
Prof. Howard Sisco

### **Examination of Schiff Base Condensation Reactions of Aromatic Amine Compounds with Cyclohexanone and Related Carbonyl Compounds**

Wesley Lu  
Prof. Peter Spellane

### **Software Implementation of an Assistive Technology Mobile Robot**

Jannatul Mahdi  
Prof. Farrukh Zia

### **Lasso Regression**

Dung Mai  
Prof. Nan Li

## **Determinism of Stochastics Processes through the Relationship between the Heat Equation and Random Walks**

Gurmehar Singh Makker  
Prof. Lin Zhou

## **Roboqueen 3D**

Jensy Maldonado  
Prof. Farrukh Zia

## **Methods of Reduction CO2 Emissions in NYC Buildings**

Elena Malysheva  
Prof. Navid Allahverdi

## **Ball Catching with Omni-directional Wheeled Robot Utilizing Computer Vision and Neural Network**

Eric Martinez  
Prof. Ali Harb

## **Students' Perceptions of the Impact of Peer-led Workshops on their Team-working and Problem Skills Continued**

David Mastalerz  
Prof. Melanie Villatoro

## **Assessing Participants' Feedback to Dental Screenings and Hygiene Care Provided by City Tech's Dental Hygiene Students**

Yujing Mei  
Prof. Susane Davide

## **Differential Effects of High Fat Diet (HFD) in Male and Female Mice**

Bushra Miah  
Prof. Sanjoy Chakraborty

## **Lasso Regression**

Afsana Mimi  
Prof. Nan Li

## **Automated Window Washer**

Janes Morales  
Prof. Farrukh Zia

## **High-Performance Facade Metrics, Closed Cavity Systems and Incentives in Context of Net-Zero Building**

Laurin Moseley  
Prof. John Neary

### **Study of Communication Delay in Servo Actuator Networks**

Gene Nadela  
Prof. Xiaohai Li

### **International Space Object Orbit Tracker**

Nicole Navarro  
Prof. Farrukh Zia

### **Injection Molding using 3D Printed Molds**

Danny Nalasco  
Prof. Angran Xiao

### **The Role of Calpains in T.Thermophila**

Titilope Odumuwagun  
Prof. Ralph Alcendor

### **The Role of Calpains in T.Thermophila**

Ebunoluwa Okunade  
Prof. Ralph Alcendor

### **Discovering Blockchain Technology**

Tajamul Rabbani  
Prof. Marcos Pinto

### **Light-matter Interactions in Emerging Two-dimensional Materials**

Shaina Raklyar  
Prof. German Kolmakov

### **Synthesis of TiO<sub>2</sub> -H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> Composite Material, Characterization, and Photocatalytic Studies**

Farah Rammal  
Prof. Ivana Jovanovic

### **Implication of Local Weather on Heat Transfer Rates by Infiltration in Summer**

Anthony Rivera  
Prof. Daeho Kang

### **Circulate Laser Engraver**

Kevin Rojas  
Prof. Angran Xiao

### **Circulate Laser Engraver**

Ericka Saldana  
Prof. Angran Xiao

## Electrical Vehicle: How it Benefit Customer?

Saiful Same  
Prof. Yu-Wen Chen

## A Study on Building Occupancy Detection with Sensor Data Analysis

Daniel Sampong  
Prof. Li Geng

## Examination of Schiff Base Condensation Reactions of Aromatic Amine Compounds with Cyclohexanone and Related Carbonyl Compounds

Jonathan Samuel  
Prof. Peter Spellane

## Low-cost Near Infrared Diffuse Optical Imaging System

Mohammed Shakil  
Prof. Chen Xu

## A Data Visualization System for Wireless Sensor Network using Open Source Platform Thingsboard

Julia Shin  
Prof. Xin-Zhou Wei

## Implementing READ (Reading Effectively Across Disciplines) in the Classroom

Anisa Shkempi  
Prof. Michael Gotesman

## Lasso regression

Shubha Shrestha  
Prof. Nan Li



Exploring Global Culture Through Cuisine Spain Market Trip  
November 1, 2019

## **The Privacy Preserving Framework with Virtual Ring and Identity-based Cryptography for Smart Grid**

Leonard Sutanto  
Prof. Yu-Wen Chen

## **Modular Design of Elevator Control System**

Orouba Tagout  
Prof. Farrukh Zia

## **Injection Molding using 3D Printed Molds**

Abel Tapia  
Prof. Akm Rahman

## **Video OER for Physics Education**

Parikshit Thapa  
Prof. Lufeng Leng

## **Design and Manufacturing of a Walking Machine**

Aneita Torres  
Prof. Angran Xiao

## **Internet Connected Smart House**

Mellisa Valle  
Prof. Farrukh Zia

## **Green Roof System Integrated Soil Methods**

Jude Vallon  
Prof. Ivan Guzman

## **Polyethylene Glycol Diacrylate Degradation Rate Studies**

Steven Vera  
Prof. Ozlem Yasar

## **Static Analysis of Structural Members**

Alexis Villalona  
Prof. Farhad Alinaghizadeh

## **Agent-Based Models of Enzyme Reactions**

Albina Volkova  
Prof. Johann Thiel

## **IoT in a 5G World**

Subhaan Wagle  
Prof. Marcos Pinto

**Peer-Assisted Learning in Calculus II:  
Examining Gender Differences**

Xiaoqing Wu  
Prof. Janet Liou-Mark

**Video OER for Physics Education**

Ryan Young  
Profs. Darya Krym and Lufeng Leng

**Solar System used in Electrical Car**

Qiaoling Zeng  
Prof. Masato Nakamura

**Sleep-Wake Disturbances in  
Mild Traumatic Brain Injury: Meta-analysis of  
Literature and Modeling of Cerebral Tissue  
Vulnerability**

XiangFu Zhang  
Profs. Mary Alice Browne and  
Subhendra Sarkar

**Kinetic Study of Amine Cured Epoxy Resins**

Xiaona Zhou  
Prof. Urmi Ghosh-Dastidar

**An Enticing Study of Primes Numbers of the  
Shape  $p = x^2 + y^2$**

Xiaona Zhou  
Prof. Satyanand Singh

**How to Reduce CO<sub>2</sub> Footprints of Buildings**

Elena Zimareva  
Prof. Navid Allahverdi

# LSAMP SCHOLARS

**NATIONAL SCIENCE FOUNDATION  
LOUIS STOKES ALLIANCE FOR  
MINORITY PARTICIPATION (LSAMP) IN STEM**

**Machine Learning Method to  
Analyze Criminal Data**

Kiyatou Konate  
Prof. Marcos Pinto

**Computer Vision - Face Detection**

Sumya Raha  
Prof. Marcos Pinto

**Network Centrality Measures and  
Network Capacity**

Luc Telemaque  
Prof. Nadia Benakli

**Machine Learning Method to  
Analyze Criminal Data**

Ida Touray  
Prof. Marcos Pinto

**Environmental Mapping Robot**

Caren Yang  
Prof. Zia

# GRANT-FUNDED PROJECTS

## **NATIONAL SCIENCE FOUNDATION RESEARCH EXPERIENCES FOR UNDERGRADUATES IN SATELLITE & GROUND-BASED REMOTE SENSING AT NOAA-CREST: EXPANDED OPPORTUNITIES**

(NSF REU Grant # 1560050)

Profs. Reginald Blake & Janet Liou-Mark,  
Ms. Julia Rivera

## **Validation of Downscaled Satellite Land Surface Temperature in Urban Areas using an Unmanned Aerial Vehicle (UAV) and In-situ Applications**

Kirk Barclay and Justine Ginchereau  
Profs. Abdou Rachid Bah,  
Reginald Blake, Hamid Norouzi

## **Studying Global Lakes Surface Temperature Variability at the Basin Level-Scale Using Remote Sensing Observations**

Ryan Chen and Shaun Pollard  
Profs. Abdou Rachid Bah,  
Reginald Blake, Hamid Norouzi

## **Using satellite imaging radar to generate flood maps for improved humanitarian response: A case study for the 2019 Malawi floods**

Wen Yong Huang and Janet Llinas  
Prof. Aaron Davitt

**NATIONAL SCIENCE FOUNDATION  
GP-EXTRA: RECRUITING & RETAINING  
NON-GEOSCIENCE MINORITY STEM MAJORS  
FOR THE GEOSCIENCE WORKFORCE**

(NSF IUSE GEO Grant # 1540721)

PHYS 1002 ID: An Introduction to  
the Physics of Natural Disasters

Profs. Reginald Blake, Janet Liou-Mark,  
Hamidreza Norouzi, & Ms. Julia Rivera

**Cultivate Climate**

Tarik Alexander, Ying Chong Chan,  
Abu Chowdhury, Yanting Dong,  
Mahoutin Godonou, Alexander Haynes,  
Sanjay Seepersaud

**The Fresh Prince Who Blew Air**

Dimitri Ambroise, Nurbu Asherpa,  
Corey Fung, Saleh Kassim, Ayaz Mirza,  
Jon Molina, Hector Sanchez

**Feel that Heat**

Yessica Bustos, Ryan Chen,  
Angelica Garcia, Kristel McNab,  
Juan Velez, Zahida Yasmin

**Coming Hell and High Water**

Saira Abbasi, Mohammad Kabir,  
Kareem Jackson, Parves Mia,  
Sumyia Rahman, Brian Yellis

**Earthquakes**

Oludara Abiova, Faha Ghauri,  
Mohammad Islam, Md Shova,  
Marckendy Voltaire

**Typhoon Tycoon**

Shazia Absar, Afraz Allie,  
Oumaima Aouinate, Tiara Cash,  
Marylix Ortiz

**Earthquakes in Japan and Peru, and  
how Construction Infrastructure Matters**

Inga Balkissoon, Matheus Figueroa,  
Abu Fofana, Joel Quispe,  
Michael Salamonski, Jing Sheng Zhao

## **Death by Sunlight**

Michael Avulov, Isaiah Kersaint,  
Antonio Mattis, Afsana Mimi

## **Climate Change**

Freddy Gutierrez, Ainul Haque,  
Asiaty Jalloh, Rana Saleh, Jihane Taifi









# THE 31ST SEMI-ANNUAL HONORS & UNDERGRADUATE RESEARCH POSTER PRESENTATION

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

## SPECIAL THANKS TO

Ms. Iman Abdulfattah  
Ms. Lauri Aguirre  
Mr. Abdou Bah  
Prof. Monica Berger  
Prof. Tamrah D. Cunningham  
Prof. Julia Jordan  
Prof. Janet Liou-Mark  
Mr. Christopher Navarrete  
Mr. Lubosh Stepanek  
Mr. David Turkiew  
Mr. Adam Walker  
Ms. Laura Yuen-Lau

## A SPECIAL THANK YOU TO THE DEDICATED POSTER JUDGES

Navid Allahverdi	Elizabeth Milonas
Daniel Alter	Unurjargal Nyambuu
Gulgun Bayaz Ozturk	Nandi Prince
Nadia Benakli	Akm Rahman
Monica Berger	Noemi Rodriguez
Lucas Bernard	Jeremy Seto
Christopher Blair	Satyanand Singh
Stephanie Boyle	Peter Spellane
Mary Alice Browne	Denise Hardesty Sutton
Yu-Wen Chen	Christopher Swift
Tamrah D Cunningham	Zoya Vinokur
Li Geng	Robert Walljasper
Urmi Ghosh-Dastidar	Adam Wilson
Katherine Gregory	Chen Xu
Ivan Guzman	Zhou Zhang
Ivana Jovanovic	Lin Zhou
Laina Karthikeyan	Zheng Zhu
Jinwon Kim	
Sean MacDonald	
Alberto Martinez	
Ariane M Masuda	

A SPECIAL RECOGNITION AND APPRECIATION TO  
MS. HOA VU FOR DESIGNING THE PROGRAM



NEW YORK CITY COLLEGE OF TECHNOLOGY