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mercy.edu/teamstem

 [team.stem](https://www.instagram.com/team.stem)

SUMMER RESEARCH ACADEMY

JUNE 19, 2020

WELCOME AND OPENING REMARKS | 9:00 A.M. – 9:15 A.M.

- President Timothy Hall, Mercy College
- Dean Raymond Houston, Westchester Community College
- Dean Carmen Martinez-Lopez, Westchester Community College
- Dean Peter West, School of Liberal Arts, Mercy College

CYBERSECURITY | 9:15 A.M. - 9:35 A.M.

Exploring new and existing technologies in cybersecurity and forensics

Jonathan Amotz Zohar
Andrew Kirk
Robert Lewin
Christopher Saavedra
Summer Shakelton

Jessica Silva Nascimento
Jostan Tejeda

Faculty Mentor:
Prof. John Watkins

COMPUTER SCIENCE | 9:35 A.M. - 9:55 A.M.

Enhance our cybersecurity awareness - Learn what hackers are doing and develop computer viruses

India Hatch
Hans Mittig
Mantie Reid II

Faculty Mentor:
Dr. David Wang

CYBERSECURITY | 9:55 A.M. - 10:10 A.M.

Enhancing business practices with cloud-based security technologies

Elisandra De La Cruz
Husnain Mir
Thomas Slater

Luke Smyth

Faculty Mentor:
Prof. Juan Rodriguez

MATHEMATICS | 10:10 A.M. - 10:30 A.M.

Game theory modeling of building energy use by occupants

Michael Daley II
Johnathan Diaz
Jonathan Karlsen
Samantha Lorenc

Yumilka Polanco

Faculty Mentor:
Dr. Jeff Chang

BREAK | 10:30 A.M. – 10:45 A.M.

COMPUTER SCIENCE | 10:45 A.M. - 11:05 A.M.

Data Analysis of Police Response Time to incidents in Major Cities

Madiara Bane
Hassan Bendada

Juhwan Cho
Jacquelyn Fischer

Predictive Analysis of FIFA-19 Player Transfer Values

Ahmet Almadami
A'mynie Green
Mame Gueye
Jaret Petras

Faculty Mentor:
Dr. Narasim Banavara

COMPUTER SCIENCE | 11:05 A.M. - 11:20 A.M.

Network Intrusion Detection using Machine Learning Algorithms

Ibrahima Diallo
Lance Faltinsky
Aditya Pawar

Faculty Mentor:
Dr. Sisi Li

LUNCH BREAK | 11:20 A.M. - 12:00 P.M.

REMARKS | 12:00 P.M. - 12:15 P.M.

- Provost Jose Herrera, Mercy College
- Dr. Nagaraj Rao, Team STEM Program Director, Mercy College

PSYCHOLOGY | 12:15 P.M. - 12:55 P.M.

Social Media Use, Identity Development, and Anxiety Among Emerging Adults

Thomas An
Amber Babilsky
Adriana Braga
Kaylee Franco
Angel Garabito
Jasmine Harley
Ami Konate

Magnan Konate
Leah Leavy
Emily Lopez
Natalie Meyer
Oliva Nuttal
Lillian Seda
Talisa Vasquez

Faculty Mentor:
Dr. Rebecca Trenz

Lab Manager:
Dimitra Tzanis

The Relationship Between Epistemic Perspectives, Social Media Use, and Academic Performance

Maya Barksdale
Myazia Daye
Joseph D'Souza
Dylan Francis
Solmaira Morales

Tatiana Pineiro
Cristal Salgado
Emmett Warmbrand
Rhonda Williams
Ashley Zavala

Faculty Mentor:
Dr. Julia Zavala

Lab Manager:
Natalia Monsalve

ENVIRONMENTAL BIOLOGY | 12:55 P.M. - 1:25 P.M.

Exploring plant population dynamics using regional and global databases

Joshua Delgado
Clarisse Djomo Nee Tchatchoa
Luisa Fernanda Castro Vizcarra
Bianca Jimenez
Catherine Jordan
Helga M. Kuverua
Jazmin K. Morales Cisneros

Bisma Rafiq
Marisa Rodriguez
Erika Vasquez

Faculty Mentors:
Prof. Holly Bukofser
Dr. Margaret Eiden

MOLECULAR BIOLOGY | 1:25 P.M. - 1:45 P.M.

Analyzing how plant pathogens interact with Host defense using PlantSimLab models

Salma Alashwal
Estpehany Jimenez
Andrea Santiago

Jacqueline Sonia
LeeAnne Taylor Williams
Nataly Vigil

Faculty Mentor:
Dr. Devdutta Deb

NEURODEVELOPMENTAL BIOLOGY | 1:45 P.M. - 2:05 P.M.

Cellular and molecular mechanisms of cell migration in the developing vertebrate nervous system

Debobrata Banik
Rashida Bradley-Ortiz
Michael Carvajal
Chanel Levius

Damian Paez
Alisbeth Tirado
Robermy Urena
Aijah Williams

Faculty Mentor:
Dr. Anthony Canger

NEUROBIOLOGY | 2:05 P.M. - 2:25 P.M.

Analysis of the expression cadherin gene family in the Developing mouse brain

Na'imah Alston
Kyle Donnery
Amanda Fishkin

Jada Mensah
Areisha Smith

Faculty Mentor:
Dr. Juan Bruses

BIOLOGY: NEUROPROTECTION | 2:25 P.M. - 2:45 P.M.

Potential Brain Therapeutics Involving Nrf2 and LRRc8

Andrew Calore
Besani Espinal
Angie Jaramillo
Keti Kodra
Natalie Malarczyk
Rosabely Mota

Helan Paulose
Osner Solon
Cindy Vazquez

Faculty Mentor:
Dr. Renee Haskew-Layton