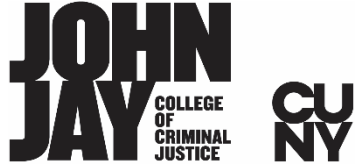# CISE: MSI: Cultivating and Developing Research Talent to Support Research in Cyber-Security

Shweta Jain, CUNY John Jay College of Criminal Justice
Co-PIs: Marie-Helen Maras, Hunter Johnson, Samuel Graff, Matluba Khodjaeva
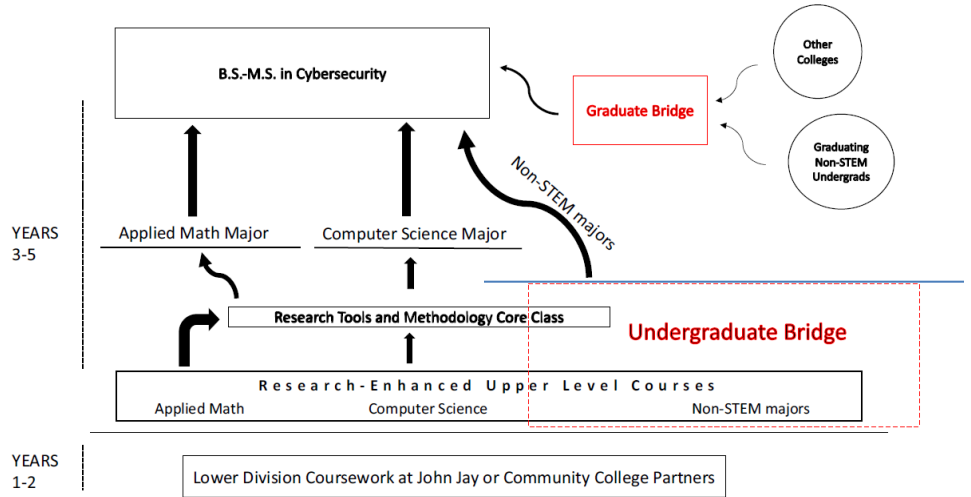
Challenge:

- Increasing research capacity at a small, minority serving liberal arts teaching college

Solution:

- A five year BS-MS program in X + Digital Forensics and Cybersecurity
  - X = {Computer Science, Security Management, Criminal Justice, Forensic Psychology}
- An undergraduate cyber bridge program for non-STEM majors to create pipelines into the MS program.
- Curriculum enhancement to research components in each classroom
- Course in Research Methods in cybersecurity
- Two year capstone and thesis courses to support faculty student collaborative research

Scientific Impact:

Development of multi-disciplinary research talent through a research infused curriculum across Computer Science, Applied Mathematics, Cybercrime and Criminal Justice.

Broader Impact and Broader Participation:

- Increase minority participation in the cybersecurity workforce, higher education and government
- Upward mobility
- Increased research capacity may lead to transition to practice research