URBAN SCIENCE INTENSIVE
CAPSTONE PRESENTATIONS

July 31, 2017
9:00am - 4:30pm

NYU CUSP
1 MetroTech Center
Brooklyn, NY 11201
NYU CUSP’s Urban Science Intensive (USI) Capstone program brings together student teams with government agencies or research partners to address real-world urban challenges through data. The USI Presentation event is the culmination of their four-month Capstone projects and marks the final presentation of the students’ work during their studies at CUSP.

Projects consist of team-based work on a pressing urban issue. Teams work with a project sponsor to define the problem, collect and analyze data, visualize the results, and, finally, formulate and deliver a possible solution. Student teams are challenged to utilize urban informatics within the context of city operations and planning, while considering political, social, and economic realities and data management and ethics. The goal of each project is to create impactful, replicable, and actionable results that inform data-driven urban operations and a new understanding of city dynamics.

+ AGENDA

9:00am - 9:15am  Welcome Keynote @ National Grid Auditorium
9:30am - 11:15am  Student Presentations
   National Grid: Transportation & Networks
   Pfizer: Operations & Policy
11:15am - 11:30am  Break
11:30am - 1:00pm  Student Presentations
   National Grid: Urban Sensing
   Pfizer: Social Impact & Criminal Justice
1:00pm - 2:30pm  Lunch
2:30pm - 4:00pm  Lightning Presentations @ Pfizer Auditorium
4:00pm - 4:30pm  Break
4:30pm  Awards & Reception @ Pfizer Auditorium

+ LOCATIONS

NATIONAL GRID AUDITORIUM: 1 MetroTech Center, 1st Floor
PFIZER AUDITORIUM: NYU Tandon, 5 MetroTech Center

+ LEARN MORE

For complete information on the capstone groups and projects, please visit: [cusp.nyu.edu/usi2017](http://cusp.nyu.edu/usi2017)

Posters featuring each capstone group will be available to view in the Pfizer Auditorium foyer during the day.
+ STUDENT PRESENTATIONS

National Grid Auditorium

Transportation & Networks (9:30am - 11:15am)

1. Performance Analysis and Tracking for NYC’s Transit System (TransitCenter)
2. Predicting Unmet Trip Demand (NYC Taxi and Limousine Commission)
3. Optimizing the Location and Use of Taxi/FHV Relief Stands (NYC Taxi and Limousine Commission)
4. Food Distribution Network Vulnerability (NYC Mayor’s Office of Recovery and Resiliency)
5. Networks of Urban Vulnerability (Lockheed Martin)

Urban Sensing (11:30am - 1:00pm)

1. The Quantified Community (NYU CUSP, the Mayor’s Office of Tech & Innovation, and the NYC Economic Development Corporation)
2. SQUID: Using Sensors and Computer Vision to Assess Road Conditions (ARGO Labs)
3. WiFind: Analyzing WiFi Density Around NYCHA Housing Projects (NYU CUSP)
4. The Urban Observatory (NYU CUSP)

Pfizer Auditorium

Operations & Policy (9:30am - 11:15am)

1. Large-Scale Data Analysis of Water Efficiency in California (California Data Collaborative, ARGO Labs, and Moulton Niguel Water District)
2. The “Energy Snapshot”: Driving Behavior Change through Energy Data Analytics (NYC Mayor’s Office of Sustainability)
3. City of New Orleans Emergency Medical Services Resource Optimization (City of New Orleans, Office of Performance & Accountability)
4. Bringing Data-Driven Performance Management to Small Cities (National Resource Network)

Social Impact & Criminal Justice (11:30am - 1:00pm)

1. Prosecutorial Data Justice (BetaGov and the District Attorney’s Office of Santa Clara County)
2. Predicting “Failure to Appear” for Misdemeanor Offenses (Manhattan District Attorney’s Office)
3. Piercing the Landlord Corporate Veil (New York State Office of the Attorney General)
4. SmartShelters: Using Technology and Data Science to Improve Outcomes for Homeless Families in NYC (Women-in-Need NYC)
CUSP is a university-wide center whose research and education programs are focused on urban informatics. Using NYC as its lab, and building from its home in the NYU Tandon School of Engineering, it integrates and applies NYU strengths in the natural, data, and social sciences to understand and improve cities throughout the world. CUSP offers a one-year Master’s degree in Applied Urban Science and Informatics.

Follow the USI Presentations on Twitter! Tweet at @NYU_CUSP or use #cuspUSI2017.