Jack Lundquist

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https://jack-lundquist.github.io/portfolio/

Education

Master of Science, New York University's Center for Urban Science + Progress   [2017-2018 expected]

NYU CUSP Merit Scholar **(Current GPA: 3.9)**

Bachelor of Science, Stanford University   [2014-2017]

Environmental Systems Engineering, Urban Track **(GPA: 3.7)**

Work Experience

Civic Analytics Graduate Student Fellow, NYU CUSP's Urban Intelligence Lab   [Fall 2017 – present]
- Developing models, visualizations and tools for a variety of New York City agencies and homeless shelter providers.
- Co-author of a paper published in The Journal of Technology in Human Services: "Applications of Machine Learning Methods to Predict Readmission and Length-of-Stay for Homeless Families: The Case of Win Shelters in New York City"

Teaching + Research Assistant, Sustainable Urban Systems (SUS) Initiative   [Summer 2016 – Summer 2017]
- Developed content for 3 SUS courses, and mentored students through 7 urban informatics projects.
- Organized a seminar series (CEE 224S: "Sustainable Urban Systems Seminar") and a research symposium.
- Conducted a workshop at the Smart Cities NYC '17 conference.
- Collaborated on a project with the UN Sustainable Development Solutions Network to localize Sustainable Development goals in cities of the Bay Area. Responsible for analysis, mapping work, dashboard design and writing.

Resilience Intern, City of Oakland   [Summer 2015]
- Spearheaded an Executive Summary using data to assess key stakeholder perceptions on resilience in the Oakland.
- Created maps and graphics that help internal and external stakeholders understand the city's soft story retrofit program.

Course Projects

Assessing Racial Discrimination in Traffic Stops Across Texas   [Winter 2018 – present]
- Using data on traffic stops in Texas, we are conducting a variety of statistical tests measuring disparate impact and treatment to determine the extent of racial discrimination present in traffic stop practices. We also hope to identify specific sources of this disparate impact and will recommend reforms to Texas' traffic stop patterns and data collection practices.

The Affordable Housing Opportunity Index   [Fall 2017 – present]
- Compiled census and building level data in New York City to create a website where stakeholders can visualize vacant properties in New York City based on their suitability for affordable housing development (https://jack-lundquist.github.io/devoppidx/)

Researcher + Designer, CEE 224X/Y/Z: "Sustainable Urban Systems Project"   [Fall 2015 – Spring 2016]
- Developed a modular resilience framework to facilitate data-driven decision-making across city agencies.
- Conducted research to identify interventions that would improve San Jose's stormwater management process.
- Designed a transit-oriented urban development, and compiled its components into an informative brochure.

Social Media Strategist, URBANST 141: "Gentrification"   [Spring 2016]
- Created a social media strategy for a tenant reform campaign.

Communications Consultant, GEOPHYS 160: "Disasters, Decisions & Development"   [Winter 2015-2016]
- Designed a refinement to the SMS component of Indonesia's tsunami early warning system.

Skills

- Statistical analysis
- Data visualization
- Data integration and management
- Remote sensing
- Multimedia communication of urban planning, policy and design proposals
- Software expertise: Python, R, SQL, Javascript, Leaflet, ArcGIS, CARTO, Excel