

Carter Wang

CONTACT INFORMATION

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453 Classon Ave #2
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PROFESSIONAL EXPERIENCE

Citi Bike // Motivate, Brooklyn, NY

March 2016 – Present

Data Scientist

- Built algorithms for dynamic customer rebalancing incentives program, combining internal measures with customer usability.
- Improved demand forecasting and altered the algorithm that determines the ideal system state by incorporating real-time weather.
- Advanced method of measuring rebalancing interventions by disaggregating moves into a queue, improving performance and allowing for measurement of customer incentivized behavior.
- Worked with software engineering team to maintain and extend web tool for dispatching drivers to additional bikeshare systems and test rebalancing algorithms.
- Conducted ad-hoc analysis and visualized data to inform operational decisions.

Case Western Reserve University, Cleveland, OH

January 2015 – February 2016

Research Assistant with the Center on Urban Poverty and Community Development

- Combined data sets to predict residential vacancy using pandas and scikit-learn.
- Built visualizations with D3.js and data pipelines in Python.
- Integrated data sets for studies measuring the impact residential vacancy has on crime and home equity.

Central Intelligence Agency, Washington D.C.

November 2013 – March 2014

Data Scientist

- Developed computational algorithms and statistical methods to discover patterns and relationships in large volumes of data.
- Communicated conclusions to a lay audience in order to inform US decision makers.

Massachusetts Institute of Technology, Cambridge, MA

August 2011 – June 2013

Graduate Research Assistant

- Applied statistical models of congestion to microscopic traffic simulations using simulation-based optimization techniques to address signal coordination in urban networks.
- Network model built in MATLAB and simulated in AIMSUN in conjunction with Java and Python scripts.

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

August 2011 – June 2013

Master of Science in Transportation

4.6/5.0 GPA overall

- Coursework included nonlinear optimization, logistical and transport planning, and transportation systems and economics.

Rice University, Houston, TX

August 2007 – May 2011

Bachelor of Arts in Computational and Applied Mathematics

3.75/4.00 GPA overall, 3.77/4.00 GPA in major

- Coursework included computational science, economic modeling and public policy, probability, and statistics.

PROGRAMMING LANGUAGES

Proficient at Python, SQL, Git, MATLAB
Exposure to R, Java, Javascript, Leaflet.js, D3.js, HTML, CSS, C++

HOBBIES

Saxophone, longform journalism, trivia, and ultimate frisbee