Jiaxu ZHOU

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EDUCATION

New York University, Center for Urban Science & Progress **GPA:3.8/4.0**

Master of Science in Applied Urban Science and Informatics Aug.2016

Chongqing University, Urban Planning Department, Faculty of Architecture and Urban Planning **GPA:3.5/4.0**

Bachelor of Engineering in Urban Planning Jul.2015

SKILLS

- **Language** Chinese(Mandarin), English
- **Computer** **Data Analysis**: Python, ArcGIS, QGIS, MySQL, Matlab, Microsoft Office
  Planning: Photoshop, CAD, Sketch Up, MS office, HCS, Synchro
- **LEED GA** LEED Green Assistant Certificate Mar. 2016

Experience

Transportation Planning Intern, SIMCO Engineering, P.C. (Oct.2016 – Present)

- Conducted Trip Generation Surveys for Hotel Users sponsored by NYC Department of transportation by field interview and summary writting. Volume collection for traffic and pedestrian by sample counting and video processing. Analyzing of cirtical signalized and unsignalized intersections and summarized the results based upon level of service (LOS), volume/capacity (V/C) ratios, delay and que length with the help of HCS and Synchro. Projects involved in including Manhattan Bridge South Upper Road Redecking Traffic Study, Hudson Tunnel Project Planning and Envrionmental Service, Holland and Lincoln Tunnel Latent Damages Repairs and Rehabilitation, Hunts Point Truck Access Study.

Transportation Intern, Department of City Planning, City of New York (Jun.2016 – Mar. 2017)

- Worked for Environment Assessment Review Division. Duties include reviewing various transportation desciplines(Traffic, Pedestrian, Transit and Parking) and testing analysis (flow map balance, trip generation calculation, LOS table for different facilities including Road, Crosswalk, Sidewalk, Corner, Stairways, Esculator, Exits, Corridors and Passenageways) according to the CEQR Technical Manual on projects in New York City including Environment Impact Statements (EIS) for Jerome Avenue, East Harlem, Great East Midtown, Bay Street Corridor, 550 Washington Street and Two Bridges. Attended Public Scoping Meeting for Jerome Avenue and Broadway Triangle representing DCP, City of New York.

Research Assistant, Center for Urban Science and Progress, New York University. (Oct.2015-Jun.2016).

- AIG Traffic Safety Team lead by Prof. Kaan Ozbay, who use the computer vision technology to extract and analysis the trajectories of vehicles from NYC DOT videos, and then predict the safety risk of each intersection.
- Duties include developing filtering coding by Python upon the trejactories captured from video, building prediction model for pedestrian counting and collecting ground truth data.

Adjunct Instructor, Tandon School of Engineering, New York University (Sep.2016-Dec.2016)

- Adjunct activities for Technology Strategy class given by Prof. Robert Richardson in Department of Technology Management and Innovation including online discussion setting up and management, Requests recording and Commentting on homework about Strategic Planning in hi-tech industry topics.

RESEARCH PROJECTS

Measuring Bus Reliability in NYC, Capstone Project (May.2016-Jul.2016)

- Sponsored by NYU CUSP and NYC DOT, the project uses the MTA GPS data to measure reliability of bus service within NYC. Due to the large volume of data, Spark in Python environment was used to process. CartoDB is the main tool used for mapping.
- Defined the bus reliability measurement metrics. Developed the measuring python code. Jointly prepared the map and plots as well as the final report and presentation.

Potential Citibike Usage in outer borough NYC, Urban Science Intensive Course Project (Feb. 2015-Apr.2016)

- To measure the potential Citibike usage of outer borough NYC, demographic and transportation condition features are selected in all the Census Block Group within NYC DOT Citibike expansion plan. After the Analytical Hierarchy Process, the potential rank is mapped by ArcGIS.
- Previous study review on the features which will influence the usage of bike sharing system. Data preparation based on the American Community Survey and NYC Census Block Group. Plot the potential score to out borough using ArcGIS. Partly write the final report.

REFERENCE FURNISHED UPON REQUEST