

## Yixin Liu

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### EDUCATION

**The George Washington University, (GWU)** Washington, DC

**Dec 2017**

- *Master of Science in Systems Engineering, Focus: Operations Research*, GPA: 3.78
- Relevant Concentration: Supply Chain Management (SCM) & Project Management and System Optimization

**Beijing University of Technology**, Beijing, China

**Jun. 2016**

- *Bachelor of Science in Transportation Engineering*, GPA: 3.11
- Awarded University Achievement Scholarship
- Outstanding Student Leader Award

### TECHNICAL & LANGUAGE SKILLS

**Programming:** Python, MATLAB, AMPL, C Language, SQL

**Applications:** Simio, Adobe Photoshop, AutoCAD, 3D MAX, Microsoft Office

**Operating Systems:** OS, Windows

**Languages:** Mandarin, English

### WORK EXPERIENCE

**China Academy of Transportation Sciences.**, Beijing, China

**Jul. 2015 – Sep. 2015**

*Assistant Researcher, Information and Database Department*

- Optimized routes for cold chain trucks in Henan province in order to decrease fuel consumption
- Researched and designed fuel consumption measurement meter and co-assisted in attaching measurement meter to track fuel consumption of 65 trucks
- Collected and organized data from 35 days test period into a standard format that can be uploaded to cloud database, and plotted 2900 sets of valid daily gas consumption curves of trucks
- Generated real-time dynamic fuel consumption monitoring graphs showing how the consumption related to weather conditions, truck weight, and model of the truck

### RESEARCH PROJECTS

**George Washington University**

**Sep. 2016 – Jan. 2017**

*Model of Simulating Chain Store Price and Delivery Competition*

- Developed and implemented distribution survey and manually analyzed the daily turnover of store retail
- Independently built a quantitative model to calculate the optimal frequency of delivery and price range by AMPL
- Proposed an inventory and transportation plan for 5 chain stores, and after a 10-month simulation in Simio, every chain store increased profits by 5%

**George Washington University**

**Feb. 2017 – Jun. 2017**

*Simulation of Ramen restaurant operating process*

- Conducted an observational analysis of a local Ramen restaurant and recorded daily operating processes including preparing food and serving customers
- Constructed a simulation model and created experiments addressing several scenarios, accounting for variables such as number of waiters, adding a delivery service, and length of time for cooking
- Proposed an optimize management and operation plan by comparing and selecting the best experiment, and after a 2-year simulation in Simio, the restaurant revenue and customer satisfy percentage increased by 17%

### LEADERSHIP ACTIVITIES

**Beijing University of Technology: Publicity Department**

**Sep. 2012 – Jul. 2013**

*Director - Poster & Presentation*

- Composed and edited promotion materials and designed festive souvenirs for student union events
- Oversaw and administered technical support on all audio processing and video editing for events