

# SIHUA SONG

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## Education

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**Northeastern University, Boston, MA**

Dec. 2017

Master of Science in Civil Engineering, Concentration: Transportation Engineering

GPA: Cumulative GPA 3.838 out of 4.0

**Core course:** Transportation Planning and Engineering, Public Transportation, Performance Models and Simulation of Transportation Networks, Traffic Engineering, Transportation Demand Models

## Work Experience

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**Keolis Commuter Services, Boston, MA**

Jan.—July 2017

Engineering Intern

- Set up checklists, equipment specifications and repair tasks for equipment into Keolis Asset Management System (Trapeze)
- Developed a training guide about how to complete work orders in Trapeze for the Work Equipment Group
- Collected mechanical equipment specification data and preventative maintenance frequency, and recorded into Trapeze
- Updated inspection reports and pictures for bridges, culverts and tunnels into Trapeze

**Reecon Center, Pittsburgh, PA**

July—Aug. 2016

Intern Assistant

- Analyzed how products are displayed on website versus other leading manufactures, and improved it
- Compared our products and similar products sold by other brands in different retailers, found the characteristics and functions of products, highlighted competitive advantages

**Urban Planning & Architectural Design Institute of Fudan University, Shanghai, China** July—Aug. 2013

Intern Research Assistant, Public Transportation Special Plan of Liaoning (Yingkou) Coastal Industrial Base

- Conducted predictive analysis of the demand in public transportation on the basis of population, workforce, the public traffic trip and commuter demand
- Built simulation prediction model; calculated forward public transportation trip generation based on living space, calculated forward public transportation trip attraction based on attraction rate
- Conducted prediction of public traffic assignment using gravity model according to public transportation trip generation and attraction
- Drew the general layout of public transportation planning based on passenger forecasting

## Research

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**Evaluation the Feasibility of Lane Reduction “Road Diet” and the Effects of Gallivan Blvd Sep.— Dec.2017**

Designer, Northeastern University

- Analyzed the current traffic running data and level of service of Gallivan Blvd
- Used Synchro to get a preferred timing for the new road
- Put traffic counts, signal timing and geometry information into Vissim and built simulation model
- Run the model and made comparison

**Construction Plan Design of Environment-Friendly Dan tong Highway, Dalian, China** June—Aug. 2014

Research Group Leader, Dalian Maritime University

- Selected optimal plan from route selections and participated in the design of ecological way, environmental protection road, landscape way and tourist way, combined the transportation and ecological environment

## Skills

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Native Speaker of Mandarin Chinese and Fluent in English, MS Office, Synchro, Vissim, AutoCAD, Trapeze