
Shirin Qiam

Newmark Civil Engineering Laboratory, MC-250, 205 North Mathews Ave., Urbana, IL 61801

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EDUCATION

2021- Now

University of Illinois at Urbana Champaign, Urbana, IL, USA

Ph.D. in Civil and Environmental Engineering, Transportation Engineering

2016- 2019

Sharif University of Technology, Tehran, Iran

M.Sc. in Civil and Environmental Engineering, Transportation Engineering, GPA: 3.8/4 (17.11/20)

2012-2016

Isfahan University of Technology, Isfahan, Iran

B.Sc. in Civil and Environmental Engineering, GPA: 3.9/4 (18.06/20)

PUBLICATIONS

- S. Devunuri, **S. Qiam**, L. Lehe, A. Pandey; "Bus Stop Spacing Statistics: Theory and Evidence", Transportation Research Record, 2022, Under review.
- S. Devunuri, **S. Qiam**, and L. Lehe, Bus Stop Spacings for Transit Providers in the US - Harvard Dataverse, <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/SFBIVU&version=V1>

EXPERIENCES

Research Assistant

Department of Civil Engineering, University of Illinois at Urbana Champaign

- Study of Parking Lot Under Supervision of Prof. L. Lehe. (Fall 2022-Now)
 - Ongoing Project: Detecting parking lots from satellite images using deep learning methods.
- Study of Bus Stop Spacing Under Supervision of Prof. L. Lehe. (Fall 2021-Summer 2022)
 - Introducing a new terminology and theoretical concept for stop spacing statistics using different weighting schemes.
 - Providing a Python package called "gtfs-segments" to analyze GTFS data.
 - Creating an open-source database for stop spacing statistics of 523 US transit provider using GTFS data.

Department of Civil Engineering, Sharif University of Technology

- M.Sc. Thesis Under Supervision of Prof. H. Poorzahedy. (Summer 2017-Fall 2018)
 - Introducing an algorithm for solving bi-level road network design problems with pricing (Build-Operate-Transfer System).
 - Considering the uncertainty of demand in problem and providing a solution to reduce it.

Teaching Assistant

- Department of Civil Engineering, University of Illinois at Urbana Champaign (Spring 2022, Fall 2022)
Course: Transportation Engineering (CEE310)
- Department of Civil Engineering, Sharif University of Technology (Spring 2017)
Course: Traffic Engineering
- Department of Mathematical Science, Sharif University of Technology (Fall 2016)
Course: Differential Equations

Work Experience (Internship)

- Rayab Engineering Consulting Company, Isfahan, Iran (Summer 2016)

Designing hydraulic structure of Taleghan Tunnel for water transferring.

Leadership Experience

- Department of Civil Engineering, Isfahan University of Technology (Spring 2016)
Executive staff of National Students Fluid Mechanics contests.

COURSES (* ONGOING)

- **University of Illinois at Urbana Champaign**
 - Urban Transportation Models*
 - Traffic Flow Theory
 - Data Science for CEE*
 - Mathematical Statistics
 - Public Transportation systems
 - Queueing Theory
- **Sharif University of Technology**
 - Operation Research in Transportation
 - Transportation System
 - Transportation Planning
 - Transportation Project Evaluation
 - Simulation
 - Advanced Traffic Engineering
 - Logistics
 - Transportation Demand

HONORS AND AWARDS

- Ranked 2nd, among 16 graduate students of Transportation Planning & Traffic Engineering, Sharif University of Technology, class of 2016.
- Ranked 1st, among 56 undergraduate students of Civil Engineering, Isfahan University of Technology, class of 2012.
- Credited by Office of Exceptional Talents of Sharif University for entering M.Sc. program without taking the national graduate entrance exam due to exceptional performance in the undergraduate studies (2016).
- Ranked 729th, among nearly 300,000 participants in the Nationwide University Admission Exam.

COMPUTER AND PROGRAMMING SKILLS

- **Programming Languages:** Python, C, C++, MATLAB
- **Optimization:** GAMS
- **Transportation:** EMME/2, PTV Vissim, Synchro, Arena, Auto CAD Civil 3D
- **Statistical Modeling:** SPSS, R
- **Other:** Git, LATEX, QT

LANGUAGES

- Farsi – Native language
- English – Fluent in writing and speaking (TOEFL Score: 101)
- Arabic – Limited knowledge

RESEARCH INTERESTS

- Transportation Economics
- Transportation Pricing Strategies
- Public Transportation
- Transportation Networks Modeling and Analysis
- Intelligent Transportation Systems