Fang Zhiyan

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EDUCATIONAL BACKGROUND

National University of Singapore
Institute of Operations Research and Analytics (IORA)
PhD Student

Southeast University
School of Transportation
Bachelor's Degree in Traffic Engineering
GPA: 3.99/4.0
Average Scores: 92.59/100 (ranking: 1/85)

UNDERGRADUATE RESEARCH EXPERIENCES

Title: **A Study on the Shortest Path Problem in Traffic Assignment Based on Naïve Neural Networks**
- Analyzed the current shortest path algorithms involving neural networks
- Developed a new approach in view of our query on a proposed method

Title: **A Deep Learning Approach for the Traffic Assignment Problem**
- Developed a novel algorithm based on Long Short-Term Memory (LSTM) in deep learning in order to solve the User Equilibrium traffic assignment problem
- Presented on Transportation Research Board Annual Conference, January 2019

HONORS & AWARDS
- National Scholarship, Ministry of Education of the People's Republic of China, 2017
- Second Prize in the Higher Mathematics Competition, Southeast University, 2017
- First Prize in the 13rd Physical Experiment Research Paper Competition, Southeast University, 2017

SKILLS
- English: Fluent (IELTS 7.5; TOFEL 107; GRE: 328+4.0); Chinese: Native
- Excellent Grade in Second-level Certificate for National Computer Rank Examination, Mar. 2017
- IT Skills: C++, Python, MATLAB, STATA, SPSS, TransCAD, VISSIM, Auto CAD