

Dingyi ZHUANG

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EDUCATION

Shanghai Jiao Tong University <i>Bachelor of Mechanical Engineering</i> ▪ Hsue-shen Tsien Class: Honor Program in Shanghai Jiao Tong University (top 5%). ▪ Cumulative Academic Average: 85.67/100. ▪ Honors: Eleme Scholarship (5%); Freshmen Scholarship; Excellent Student (5%).	<i>Shanghai, China</i> <i>Expected 6/2019</i>
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RESEARCH EXPERIENCE

Understanding Semantic Meanings of Subway Stations Through Smart Card Data <i>Research Student of National University of Singapore</i> ▪ Transferred methods from natural language processing to understand the hidden similarity among subway stations. ▪ Independently finished all modeling and coding work and prepared to write a paper.	<i>Singapore</i> <i>7/2018-Present</i>
Empirical Study on Cycle Lane Network of Shanghai Using Bike Sharing Data <i>Project Leader of 2017 Shanghai Jiao Tong University Chuntsung Program</i> ▪ Scraped data from bike-sharing application and used graphic clustering to mine the insight of bike-sharing data. ▪ Suggested a method to explore cycle lane network and contributed the idea to journals.	<i>Shanghai, China</i> <i>3/2017-6/2018</i>
Robotic Sensor Data Capturing and Analysis <i>Research Assistant in Robotics Institute of Shanghai Jiao Tong University</i> ▪ Assisted in designing and fabricating sensor circuit board to capture the gait data of patients. ▪ Processed the sensor data with MATLAB to detect the gait patterns of patients.	<i>Shanghai, China</i> <i>9/2015-8/2016</i>

PUBLICATION

▪ D.Y. Zhuang , J.G. Jin, Y.F Shen, W. Jiang, An empirical study on cycle lane network using bike sharing data: the case of Shanghai, <i>2018 International Conference on Transportation and Space-time Economics</i> . (Presentation)
▪ D.Y. Zhuang , J.G. Jin, Y.F Shen, W. Jiang, Understanding the bike sharing travel demand and cycle lane network: the case of Shanghai, <i>Journal of Transport Geography</i> . (Under review)

EXTRACURRICULAR PROGRAM

First Prize, Chinese University Students Big Data Innovation Application and Modeling Contest <i>National Level</i> ▪ Key member of my contest team, familiar with distributed architecture, the use of Hadoop, Spark and other large data processing software for data management and operation. ▪ Extracted 8 million users' features from more than 150TB data and scraped points of interest in Shanghai. Successfully realized precise portrayal (social behavior and internet habit) of the users' portrait.	<i>6/2017</i> <i>Shanghai Internet Big Data Engineering Technology Research Center</i>
Honorable Mention, 2017 Mathematical Contest in Modeling (Top 30%) <i>International Level</i> ▪ Led a team of 3 to conduct problem analysis, modelling & simulation, and analyzing traffic lane network.	<i>4/2017</i> <i>COMAP (Consortium for Mathematics and Its Application)</i>
Vice President, Center of Quality Development <i>Campus</i> ▪ Produced a total of 10 micro-films and published nearly 10 press releases and photography works. ▪ Arranged more than 10 scholarship ceremonies and anniversaries of Shanghai Jiao Tong University.	<i>5/2016-9/2017</i> <i>School of Mechanical Engineering, Shanghai Jiao Tong University</i>

SKILLS

▪ Programming: MATLAB, Python, R, MySQL, C++, Hadoop
▪ Languages: CET4: 584/710; CET6: 528/710; TOEFL: 99/120 (Speaking:22); GRE:321+3(AW)