Dingyi ZHUANG

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EDUCATION

Shanghai Jiao Tong University   *Shanghai, China*

Bachelor of Mechanical Engineering   *Expected 6/2019*

- **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%**).

RESEARCH EXPERIENCE

Understanding Semantic Meanings of Subway Stations Using Smart Card Data   *Singapore*

Research Student of National University of Singapore   *7/2018-Present*

- 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.

Empirical Study on Cycle Lane Network of Shanghai Using Bike Sharing Data   *Shanghai, China*

Project Leader of 2017 Shanghai Jiao Tong University Chuntsung Program   *3/2017-6/2018*

- 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.

Robotic Censor Data Capturing and Analysis   *Shanghai, China*

Research Assistant in Robotics Institute of Shanghai Jiao Tong University   *9/2015-8/2016*

- 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.

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, *2018 International Conference on Transportation and Space-time Economics.* (**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, *Journal of Transport Geography*. (**Under review**)

EXTRACURRICULAR PROGRAM

First Prize, Chinese University Students Big Data Innovation Application and Modeling Contest   *6/2017*

National Level   *Shanghai Internet Big Data Engineering Technology Research Center*

- 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.

Honorable Mention, 2017 Mathematical Contest in Modeling (Top 30%)   *4/2017*

International Level   *COMAP (Consortium for Mathematics and Its Application)*

- Led a team of 3 to conduct problem analysis, modelling & simulation, and analyzing traffic lane network.

Vice President, Center of Quality Development   *5/2016-9/2017*

Campus   *School of Mechanical Engineering, Shanghai Jiao Tong University*

- 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.

SKILLS

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