**2022.4-2023-4**  **TECP of Chengdu based on multi-source data fusion SRTP（Finished）**

**Guide：Professor Han Ke**

* Multi-source spatiotemporal big data is used to build a set of road network perception model for traffic situation and vehicle pollution, and the final visual display provides governance decision support. Combined with flow (bayonet data), speed (floating vehicle data), road segment static information (OpenStreetMap) and other data, the emission factor model was used to calculate the emission of mobile source pollution. The DTW algorithm combined with external monitoring stations was used to verify the accuracy of emission results. The robustness of the model was verified by reducing the number of bayonets and comparing the flow variation.

**2022.9-2023-1**  **Science and Technology Practice Optional Course（99/100）**

**Guide：Dai Zhuang**

* Bus station planning, battery charging optimization problem
* Spatial and temporal characteristics analysis of taxi emission pollution based on GPS data

**2020.9-now**  **Southwest Jiaotong University Traffic Engineering**

Bachelor of engineering in Transportation, expect in 2024

* **Major Course**： Advanced Mathematics Ⅰ:97； Advanced Mathematics Ⅱ:96； Linear Calculus B:99； Probability and Statistics:93； College Physics BⅠ:95； College Physics BⅡ：96； Automatic Control Theory：96； Operational Research：92； C Language：99； Data Structure：89； Principle & Application of Database：93； Traffic data analysis：86；Transportation GIS：95
* Passed CET-6
* **Major GPA：88.52 Ranking within about top 10%**

**Honors and Awards**

* 2021.12 The First Prize Scholarship <3%
* 2021.11 Merit Student <8%
* 2022.12 The Third Prize Scholarship <10%
* 2022.11 Ming Cheng Award School Honors
* 2023.05 NACTranS Third Prize
* 2023.06 Sichuan Computer Design Competition First Prize
* 2022.12 Engineering Training Comprehensive Ability Competition First Prize
* 2022.11 Sichuan College Students Logistics Design Competition First Prize
* 2022.09 China Undergraduate Mathematical Contest in Modeling Second Prize
* 2022.10 Logistics Design Competition in SWJTU Second Prize
* 2022.05 Mathematical Modeling Competition in SWJTU Third Prize

**Research Experience**

**Skills**

* Proficiency in python，
* Proficient use of Qgis,Arcgis and Vissim

Tel：1828037\*\*\*\* E-mail：\*\*\*\*\*\*\_l@163.com

**Southwest Jiaotong University**

**Education**

**Mr. Liu**