

# Zhijie He

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📁 Machine Learning

## 📅 WORK EXPERIENCE

### Didi Chuxing

Aug. 2021 - Apr. 2022

*Machine Learning Intern, AI Labs*

*Beijing, China*

- Implemented a multi-hop carpooling model with the improved multi-objective genetic algorithm, increasing efficiency by 23%
- Participated in a user's departure time prediction project, analyzing users' historical taxi orders, finding the patterns of travel behaviors, and using GBM to build the model (paper submitted)
- Participated in a traffic prediction project using GRU and GCN to mine road network temporal and spatial features separately that increased the efficiency by 10% (paper submitted)
- Developed a task assignment system that has been launched in thirteen cities
- Performed algorithm optimization and product launch.

## 🔬 RESEARCH

### Research on a multi-hop carpooling model

Aug. 2021 - Dec. 2022

*Creator*

- Researched and analyzed the related papers, finding the lack of research on multi-objective multi-hop carpooling
- Built a multi-hop carpooling algorithm in Python using a multi-objective Genetic algorithm and used the OSMnx package to visualize

### Research on Multi-Objective Project Collaborative Planning and Scheduling Model

Mar. 2018 - Jun. 2019

*Project core developer*

- Implemented a scheduling model with an improved multi-objective Genetic algorithm, solving the problem of assigning resources in reality and publishing a paper
- Researched further on the model of multi-skill human resources, proposing a new salary assignment strategy to improve employee efficiency
- Published the conference paper "A Multi-objective Model for Multi-skill Project Scheduling Problem" in IEEE journal, applied for two software copyrights, and was selected as the school-level excellent project

## 🎓 EDUCATION

### EIT Digital Master School

Sept. 2020 - Jul. 2023

*Master of Engineering in Data Science*

- Entry University: Université de Nice-Sophia Antipolis, Exit University: Aalto University

### Yangzhou University

Sept. 2016 - Jun. 2020

*Bachelor of Engineering in Software Engineering*

- Grades: 86/100 (top 10%)
- Won the National Encouragement Scholarship twice
- Served as vice president of the School Association, actively held and organized more than 30 activities

## 🛠 SKILLS

- Computer Programming: Python(PyTorch), MATLAB, SQL
- Language: Chinese (native), English (proficiency)