

# Zuoyu Chai

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Website: <https://zychai.github.io> | Planned Start Date: Fall 2025

## EDUCATION

<b>Southeast University</b>	08/2021-06/2025
Major in Traffic Engineering (MAO Yisheng Class)	
<b>Main Courses:</b> Transportation Planning (97), Urban Public Transport Planning and Operation Management (92), Transportation system Analysis, Transportation Big Data Analysis, Academic reading and writing (94), Engineering mathematical analysis (93), Linear Algebra (94), Probability Theory and Mathematical Statistics (92), Data Structures and Algorithms (93)	
<b>GPA:</b> 3.75/4.00	<b>Average score:</b> 88.79

## RESEARCH EXPERIENCES

<b>Solution of user equilibrium model of traffic allocation based on Frank Wolfe algorithm</b> <i>Complete independently</i>	03/2024-04/2024
<b>Urban public transport planning and operation management training</b> <i>Key member of the project</i>	02/2024-06/2024
<b>Research on lane layout optimization and control strategy of Intelligent Toll station on expressway</b> <i>Project Team Leader</i>	11/2023-05/2025
<b>Research on supply and demand forecasting and scheduling optimization of online car hailing based on time series</b> <i>Project Team Leader</i>	02/2023-06/2023
<b>Research and development of acquisition and recognition system for car driver's driving behavior</b> <i>Project Team Leader</i>	11/2022-10/2023

## CONTESTS EXPERIENCES

<b>The Interdisciplinary Contest In Modeling</b> Award: Finalist (Top 2%)	05/2024 Choice: Problem D (operations research/network science)
<b>The National Mathematical Contest in Modeling for College Students</b> Award: Second prize in Jiangsu Province	05/2024
<b>The 14th National College students Mathematics Contest</b> Award: Third prize	05/2024
<b>The 19th Advanced Mathematics Contest for University Students in Jiangsu Province</b> Award: First prize	05/2024

## Honors and Awards

<b>Southeast University Zhishan Scholarship</b>	12/2023
<b>Three-star volunteer of Southeast University (162.8 hours of volunteer service)</b>	06/2023
<b>Excellent class guidance of School of Transportation, Southeast University</b>	12/2023
<b>Southeast University Zhishan Scholarship</b>	12/2022
<b>Southeast University Design Institute Scholarship</b>	12/2023
<b>Southeast University Zhishan Scholarship</b>	12/2023
<b>The national college students' social practice activities of "Cloud Volunteer Teaching Together to welcome the Winter Olympics"</b> Honors: Excellent team, Excellent volunteer	04/2022

## Student Association

<b>Student Union, School of Transportation, Southeast University JOIN Answer Room</b>	09/2022-08/2024
<b>Class Supervisor of Grade 2022, School of Transportation, Southeast University</b>	08/2022-07/2023
<b>Southeast University School of Transportation JOIN Art Troupe</b>	09/2021-08/2022

## SKILLS

Tools: Python, C++, Markdown, Latex, SSH, ArcGIS, Vissim, Transtar, Office, Navicat  
Others: poster making, website building