

# ZHIYUAN ZHOU

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## RESEARCH INTEREST

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- My research interests lie at the intersection of **Cyber-physical Systems**, **Data Science**, and **Artificial Intelligence**. I am interested in finding meaning patterns from large-scale data based on data-driven modeling, and designing useful prediction algorithms to solve real-world problems in cyber-physical systems (CPS), such as instance delivery service.

## EDUCATION

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**Southeast University**, School of Compute Science and Engineering Nanjing, China  
**M.S.**, Computer Science and Technology 2021.09 - Present

- Advisor: Prof. Shuai Wang
- Relevant Coursework: Algorithm Design & Analysis, Artificial Intelligence, Complex Network and Social Network Analysis, Cyber-Physical Systems and Its Applications.
- **GPA:** 3.85/4.0    **Average Score:** 89.59/100    **Ranking:** 2/71

**Southeast University**, School of Compute Science and Engineering Nanjing, China  
**B.E.**, Software Engineering 2017.08 - 2021.06

- Relevant Coursework: Advanced Data Structure, Introduction to Artificial Intelligence, Computer Graphics, Introduction to Deep Learning, Data Warehouse & Data Mining.
- **GPA:** 3.64/4.0    **Average Score:** 86.73/100    **Ranking:** 27/108

## PUBLICATIONS

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- [1] **Zhiyuan Zhou**, Xiaolei Zhou, Yao Lu, Hua Yan, Baoshen Guo, and Shuai Wang. 2021. Multi-Source Data-Driven Route Prediction for Instant Delivery. In 2021 17th International Conference on Mobility, Sensing and Networking (MSN). IEEE, 374–381. [Get paper](#)
- [2] **Zhiyuan Zhou**, Xiaolei Zhou, Baoshen Guo, Shuai Wang, and Tian He. 2024. Multi-sensor Data-driven Route Prediction in Instant Delivery with a 3-Conversion Network. ACM Transactions on Sensor Networks (**TOSN**). [Get paper](#)
- [3] **Zhiyuan Zhou**, Li Lin, Hai Wang, Xiaolei Zhou, Wei Gong, and Shuai Wang. 2024. A Cross Domain Method for Customer Lifetime Value Prediction in Supply Chain Platform. In Proceedings of the ACM Web Conference 2024 (**WWW '24**).

## RESEARCH EXPERIENCE

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**Intelligence Internet of Things Lab** Nanjing, China    **Mentored by: Tian He and Shuai Wang**  
2021.09 - Present

Research on *Multi-source Data-driven Route Prediction for Instant Delivery*

- Investigated the problem of route prediction in instant delivery, which is a challenging issue due to the unique characteristics in the scenario, such as strict deadlines, overlapped delivery time of multiple orders, and diverse individual preferences on delivery routes.
- Proposed a model integrating **multi-source heterogeneous data** information to improve the accuracy of route prediction in instant delivery.
- Designed an improved **graph neural network** to encode the global information considered by the couriers in decision-making and model the complicated decision-making mode of the couriers in the multi-order scene.
- Experimental results on real-word data showed that our model outperforms other state-of-the-art baselines and offers up to 85.51% of the route prediction precision.

## INDUSTRY EXPERIENCE

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### Algorithm Internship, Technology and Data Intelligence Division in JD Logistics

Beijing, China

2022.07 - 2023.01

- Participated in the project “User Recommendation based on **Knowledge Graph**” and undertook the following works: Analyzed user data to explore data distribution, mined key factors affecting user sign-ups, and performed feature engineering to enrich knowledge graphs. Designed experiments to evaluate the effect of user recommendation models.

### Development Internship, China Communications Services Corporation Limited

Nanjing, China

2020.08 - 2021.02

- Participated in the front-end and back-end development of the project “Manpower Assistant WeChat App”. Investigated the related technologies of research projects such as “Text Content-based Spam Identification”.

## ACTIVITIES

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- Teaching Assistance, Principle of Database Systems, Southeast University 2021.09 - 2021.12
- Outstanding Volunteer, Cyrus Tang Love Society, Southeast University 2017.10 - 2021.06

## HONORS & AWARDS

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|--|-------------------------------------|---------|
| • First-class Academic Scholarship   | Southeast University                | 2022.10 |
| • The Second Prize in the Eighth Jiangsu "Internet+" Student Innovation and Entrepreneurship Competition | Jiangsu Education Department, China | 2022.08 |
| • Merit Postgraduate   | Southeast University                | 2022.06 |
| • Merit Student  | Southeast University                | 2019.10 |
| • Course Scholarship   | Southeast University                | 2018.06 |

## SKILLS & INTERESTS

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- Language Skills: Chinese (native), English (fluent)
- Computer Skills: Python, PyTorch, C/C++, Java, Microsoft Office Tools, LaTeX
- Interests: Traveling, Photography, Reading