Hanyang Chen

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Education

Beijing Jiaotong University   Beijing, China
M.E. in Computer Science and Technology   *Sep. 2023 - Jun. 2026 (expected)*

Beijing Jiaotong University   Beijing, China
B.E. in Computer Science and Technology   *Sep. 2019 - Jun. 2023*

Publications and Under Review Manuscripts

- **Proactive-XLight: Proactive Traffic Signal Control with Pluggable and Reliable Traffic Prediction**
  Yang Jiang, Shengnan Guo, **Hanyang Chen**, Xiaowei Mao, Youfang Lin, Huaiyu Wan
  IEEE Transactions on Mobile Computing, 2025. (Early Access)

- **DiffLight: A Partial Rewards Conditioned Diffusion Model for Traffic Signal Control with Missing Data**
  Hanyang Chen, Yang Jiang, Shengnan Guo, Xiaowei Mao, Youfang Lin, Huaiyu Wan
  The 38th Annual Conference on Neural Information Processing Systems, 2024. (Spotlight)

Competitions

National College Student Computer System Capability Competition, National 3rd Prize   *Aug. 2022*
MathorCup Mathematical Modeling Challenge, National 2nd Prize   *Jun. 2022*

Awards and Scholarships

- **National Scholarship**, Beijing Jiaotong University, 2024
- **The First Prize Academic Scholarship**, Beijing Jiaotong University, 2024
- **Merit Student of Beijing Jiaotong University**, Beijing Jiaotong University, 2024
- **Outstanding Graduate Students of Beijing**, Beijing Jiaotong University, 2023

Academic & Patent Experience

Pattern Experience
- As the fourth inventor of patent "A Traffic Signal Control Method Based on DRL and Situation Prediction".

Academic Activities
- Attend the Conference on Neural Information Processing Systems (NeurIPS) (Sep 2024).
- Attend the CCF Intelligent Transportation Systems Conference (Sep 2024).

Academic Services
- Reviewer: NeurIPS'25, CCKS'25

Teaching Experience

Deep Learning, Teaching Assistant, BJTU   *Fall 2024*

Research Guidance, College Students' Innovation Project, BJTU
- Team Member: Jiarui Cao, Minlong Yang, Ruinian Fang, National-level (Top 10%), 2024-2025
- Team Member: Jingwen Chen, Shiheng Wan, Jiawei Wang, Provincial-level (Top 20%), 2023-2024