Yizhou Han

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EDUCATION

University of St Andrews **09/2024-09/2025**
Degree: Master of Science in Computer Science with **Distinction**
Honours: Dean's List Award (for academic excellence)

University of Glasgow **09/2022-08/2024**
Qualification: Pre-Masters of Law and Social Sciences with Internship with **Distinction**
City Planning & Real Estate Development PgDip

North China Electric Power University (Beijing) **09/2015-06/2019**
Degree: Bachelor of Engineering in Computer Science and Technology

RESEARCH EXPERIENCES

Cluster-MoE: Adaptive Scheduling for Asynchronous Drift in Federated Continual Learning
University of St Andrews, 03/2025–08/2025 Supervisors: Dr Blesson Varghese & Dr Di Wu

- Investigated how to determine **when to retrain and which clients or model components to update** in a federated learning system under **asynchronous drift**, where clients experience different types and degrees of drift at different times.
- Proposed **Cluster-MoE**, a Mixture-of-Experts–based adaptive scheduling framework that clusters clients with similar drift via MoE routing and separates common and personalized drift through a dual-branch model, enabling **selective retraining** of only necessary clients/model components.
- Implemented an **RPC-based distributed simulation platform** for multi-dimensional drift modelling & policy evaluation, demonstrating **9–41% efficiency improvement** over state-of-the-art baselines.
- Currently being prepared for **journal submission (*INTJ*)** in collaboration with my supervisors.

RESEARCH PRESENTATION

Beyond Green Availability: Measuring Dynamic Green Exposure Inequality in Hong Kong's Public Housing Communities
Ziwen He, Yizhou Han, and Rui Jin*.
Cities (Elsevier), under review.
(Second author; contributed to data processing and computational analysis.)

Coordination as Inference in Multi-Agent Reinforcement Learning
Zhiyuan Li*, Lijun Wu, Kaile Su, Wei Wu, Yulin Jing, Tong Wu, Weiwei Duan, Xiaofeng Yue, Xiyi Tong, and Yizhou Han.
Neural Networks (Elsevier), 2024.
(Co-author; minor contribution.)

INTERNSHIP EXPERIENCES

Tibet Dezhong Geo-Information Co., Ltd. **03/2021–08/2022**
Manager, Spatial Planning Department
Led regional spatial planning projects and developed automated tools for geospatial data processing to support land-use planning.

China Centre for Resources Satellite Data & Application **09/2020–03/2021**
Research Assistant, Applied Research Office
Built automated workflows to process large-scale satellite images for urban change detection.

Ministry of Natural Resources of Tibet Autonomous Region **07/2019-03/2020**
Intern, Spatial Planning Department
Assisted in spatial-planning research and GIS data management; contributed to technical manuals on urban–rural planning.

ADDITIONAL SKILLS AND ACHIEVEMENTS

Programming Skills: Java, Python, C++
Languages: Chinese (native), English (fluent)