

Yizhou Han

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EDUCATION

University of St Andrews Degree: Master of Science in Computer Science with Distinction Honours: Dean's List Award (for academic excellence)	09/2024-09/2025
University of Glasgow Qualification: Pre-Masters of Law and Social Sciences with Internship with Distinction City Planning & Real Estate Development PgDip	09/2022-08/2024
North China Electric Power University (Beijing) Degree: Bachelor of Engineering in Computer Science and Technology	09/2015-06/2019

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	
<ul style="list-style-type: none">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, <u>Yizhou Han</u> , 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 <u>Yizhou Han</u> . Neural Networks (Elsevier), 2024. (Co-author; minor contribution.)	

INTERNSHIP EXPERIENCES

Tibet Dezhong Geo-Information Co., Ltd. <i>Manager, Spatial Planning Department</i> Led regional spatial planning projects and developed automated tools for geospatial data processing to support land-use planning.	03/2021–08/2022
China Centre for Resources Satellite Data & Application <i>Research Assistant, Applied Research Office</i> Built automated workflows to process large-scale satellite images for urban change detection.	09/2020–03/2021
Ministry of Natural Resources of Tibet Autonomous Region <i>Intern, Spatial Planning Department</i> Assisted in spatial-planning research and GIS data management; contributed to technical manuals on urban–rural planning.	07/2019-03/2020

ADDITIONAL SKILLS AND ACHIEVEMENTS

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