

Yuan Xie

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Appointment **Research Fellow** 1/2025 - Present
School of Computing
National University of Singapore, Singapore

Research Assistant 12/2023 - 12/2024
School of Computing
National University of Singapore, Singapore

Research Interests My research originates in urban computing and data mining, including trajectory classification, domain adaptation, and spatial crowdsourcing.

Education **Doctor of Philosophy** 9/2019 - 6/2024
College of Computer Science and Electric Engineering
National Supercomputing Center in Changsha
Hunan University, Hunan, China

Visiting Ph.D Student 11/2021 - 11/2023
School of Computing
National University of Singapore, Singapore

Bachelor of Science 9/2015 - 6/2019
College of Information and Intelligence
Hunan Agriculture University, Hunan, China

Publications ICDE, ACM MM, and TKDE are the top conferences and journals. I'm the reviewer of ICDE 2024, IoT, and MMSys 2024.

[1] **Yuan Xie**, Yumeng Liu, Xu Zhou, Yifang Yin, Kenli Li, Roger Zimmermann. PBSM: Predictive Bi-preference Stable Matching in Spatial Crowdsourcing, IEEE International Conference on Data Engineering, 2025. **(ICDE)**

[2] **Yuan Xie**, Yichen Zhang, Yifang Yin, Sheng Zhang, Ying Zhang, Rajiv Shah, Roger Zimmermann, Guoqing Xiao. Traj2Former: A Local Context-aware Snapshot and Sequential Dual Fusion Transformer for Trajectory Classification, Proceedings of the 32nd ACM International Conference on Multimedia, 2024. **(ACM MM)**

[3] **Yuan Xie**, Fan Wu, Xu Zhou, Wensheng Luo, Yifang Yin, Roger Zimmermann, Keqin Li, Kenli Li, Trajectory-aware Task Coalition Assignment in Spatial Crowdsourcing (Extended Abstract), IEEE International Conference on Data Engineering, 2024. **(ICDE)**

[4] **Yuan Xie**, Fan Wu, Xu Zhou, Wensheng Luo, Yifang Yin, Roger Zimmermann,

Keqin Li, Kenli Li, Trajectory-aware Task Coalition Assignment in Spatial Crowdsourcing, IEEE Transactions on Knowledge and Data Engineering, 2023. **(TKDE)**

[5] **Yuan Xie**, Yongheng Wang, Kenli Li, Xu Zhou, Zhao Liu, Keqin Li. Satisfaction-aware Task Assignment in Spatial Crowdsourcing, Information Sciences, 2023. **(INS)**

Skills

Software Languages: Python (Advanced), C/C++ (Advanced), L^AT_EX (Advanced)
Languages: Mandarin, English, Japanese.

Achievements

Doctoral Scholarship, Hunan University	2020-2024
CSC Scholarship, China Scholarship Council	2021-2023
Second Prize, Modeling Competition in Central China	2018
First Class Scholarship, Hunan Agriculture University	2018
Second Prize, National University Student Mathematical Modeling	2017
Third Prize, MathorCup Mathematical Modeling	2017
Second Prize, Asia-Pacific Mathematical Modeling	2017
National Encouragement Scholarship, Hunan Agriculture University	2017
Second Class Scholarship, Hunan Agriculture University	2016