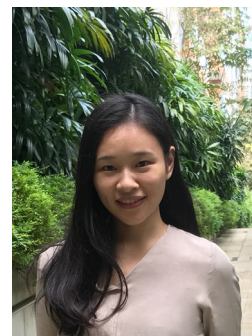**XU Yixin**

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Education

PhD, the University of Melbourne, Australia, 2021

Bachelor of Engineering, Central South University, China, 2015

Academic Appointments

Lecturer of Computer Science, School of Computing and Information Systems, SMU, Jul 2023 – Present

RESEARCH

Research Interests

Spatial-temporal data management

Spatial-temporal data mining

Urban mobility & smart computing

Publications

<u>Conference Proceedings</u>

GeoPrune: Efficiently Matching Trips in Ridesharing Through Geometric Properties, by XU Yixin; QI Jianzhong; BOROVICA-GAJIC Renata; KULIK Lars.(2020.0). *International Conference on Scientific and Statistical Database Management* (SSDBM'20), Virtual Conference, 2020 July 7-9, (pp. 1-12) New York: ACM. https://doi.org/10.1145/3400903.3400912 (published)

Highly Efficient and Scalable Multi-hop Ride-sharing, by XU Yixin; KULIK Lars; BOROVICA-GAJIC Renata; ALDWYISH Abdullah; QI Jianzhong. (2020.0) *International Conference on Advances in Geographic Information Systems* (SIGSPATIAL'20), Virtual Conference, 2020 November 3-6, (pp. 215-226) New York: ACM. https://doi.org/10.1145/3397536.3422235 (published)

Finding All Nearest Neighbors with a Single Graph Traversal, by XU Yixin; QI Jianzhong; BOROVICA-GAJIC Renata; KULIK Lars. (2018.0) *International Conference on Database Systems for Advanced Applications* (DASFAA'18), Gold Coast, QLD, Australia, 2018 May 21-24, Part I 23 (pp. 221-238), Cham: Springer. https://doi.org/10.1007/978-3-319-91452-7_15 (published)