# LIN CHEN

Email: lchencu@connect.ust.hk

Department of Computer Science and Engineering

The Hong Kong University of Science and Technology

## RESEARCH INTERESTS

Data Science, Computational Social Science, Urban Science, Graph Neural Networks.

## EDUCATION

**The Hong Kong University of Science and Technology, Hong Kong**  *Sept. 2020 - Present*
Ph.D. Candidate in Department of Computer Science and Engineering
Advisor: Prof. Pan Hui

**Tongji University, Shanghai**  *Sept. 2016 - Jul. 2020*
B.S. in Department of Electronics and Information Engineering
*Summa cum laude* (GPA: 4.86/5)

## RESEARCH EXPERIENCE

**The Hong Kong University of Science and Technology, Hong Kong**  *Sept. 2016 - Present*
Research Assistant @ SyMLab
Advisor: Prof. Pan Hui (Director of SyMLab)

**Tsinghua University, Beijing**  *Apr. 2023 - Jul 2023*
Visiting Researcher @ Future Intelligence Lab (FIB)
Advisor: Prof. Yong Li (Director of FIB)

**University of Chicago, Chicago**  *Dec. 2022 - Apr. 2023*
Visiting Researcher @ Knowledge Lab
Advisor: Prof. James Evans (Director of Knowledge Lab)

**Feng Chia University, Taichung**  *Jul. 2017*
Summer School, Innovation for Aging in Place

## PUBLICATIONS

[5] **Lin Chen**, Qianyue Hao, Fengli Xu, Yong Li, and Pan Hui. Getting Back on Track: Understanding COVID-19 Impact on Urban Mobility and Segregation with Location Service Data. *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, 17(1), 126-136. (2023)

[4] Qianyue Hao, Fengli Xu, **Lin Chen**, Pan Hui, and Yong Li. Hierarchical Multi-agent Model for Reinforced Medical Resource Allocation with Imperfect Information. *ACM Transactions on Intelligent Systems and Technology (TIST)*, Volume 14, Issue 1, pp 1–27. (2022)

[3] **Lin Chen\***, Fengli Xu\*, Zhenyu Han, Kun Tang, Pan Hui, James Evans, Yong Li. Strategic COVID-19 vaccine distribution can simultaneously elevate social utility and equity. *Nature Human Behaviour* (IF=24.252), Volume 6, Issue 11, pp 1503–1514. (2022)

[2] Qianyue Hao, Fengli Xu, **Lin Chen**, Pan Hui, Yong Li. Hierarchical Reinforcement Learning for Scarce Medical Resource Allocation with Imperfect Information. *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining (SIGKDD), pp. 2955-2963.* (2021)

[1] Qianyue Hao\*, **Lin Chen\***, Fengli Xu, Yong Li. Understanding the Urban Pandemic Spreading of COVID-19 with Real World Mobility Data. *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (SIGKDD), pp. 3485-3492.* (2020)

\* indicates equal contribution.

## WORKING PAPERS

[3] Yunke Zhang, Fengli Xu, **Lin Chen**, Yuan Yuan, James Evans, Luis Bettencourt, and Yong Li. Counterfactual Mobility Network Embedding Reveals Prevalent Accessibility Gaps in U.S. Cities. Under review in *Humanities and Social Sciences Communications*.

[2] Lin Chen, Fengli Xu, Yong Li, Pan Hui. Heterogeneous Mobility Response in Complex Urban Networks. Ongoing work.

[1] Wenxuan Zhou, Lin Chen, Fengli Xu, Yong Li, Pan Hui. The Impact of Remote Work on Urban Mobility and City Form. Ongoing work.

## SELECTED AWARDS

| | |
|---|---|
| **Rising Stars Women in Engineering Workshop, Asian Deans' Forum** | *2023* |
| **ICWSM Student Travel Grant** | *2023* |
| **HKUST Overseas Research Award** | *2022* |
| **Hong Kong PhD Fellowship (HKPFS)** | *2020-2024* |
| **Shanghai Outstanding Bachelor Graduate** | *2020* |
| **Outstanding Student of Tongji University** | *2019* |
| **China National Scholarship** | *2019* |
| **China National Scholarship** | *2018* |
| **China National Scholarship** | *2017* |

## TEACHING EXPERIENCE

**COMP 4641: Social Information Network Analysis and Engineering** @HKUST  *Spring 2021*
Teaching Assistant; Instructor: Prof. Pan Hui

**COMP 4021: Internet Computing** @HKUST  *Fall 2021*
Teaching Assistant; Instructor: Prof. Dik-Lun Lee

## ACADEMIC SERVICE

**Reviewer:** TNSE'20, TheWebConf'22, IC2S2'22, IMWUT'22, WSDM'23

## LANGUAGE

**Chinese** (Putonghua and Teochew, Native)

**English** (Proficient)