

LIN CHEN

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Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

RESEARCH INTERESTS

Urban Mobility, Urban Science, Computational Social 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. 2020 - Present*
Research Assistant @ SyMLab
Advisor: Prof. Pan Hui (Director of SyMLab)

Tsinghua University, Beijing *Apr. 2023 - Dec. 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

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*

PUBLICATIONS

- [7] 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. *Humanities and Social Sciences Communications*, 11, 87. (2024).
- [6] Zhenyu Han, **Lin Chen**, Qian Yue Hao, Qiwei He, Katherine Budeski, Depeng Jin, Fengli Xu, Kun Tang, and Yong Li. How enlightened self-interest guided global vaccine sharing benefits all: a modeling study. *Journal of Global Health*, 13. (2023)
- [5] **Lin Chen**, Qian Yue 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] Qian Yue 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] Qian Yue 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] Qian Yue 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

- [2] **Lin Chen**, Yong Li, and Pan Hui. VulnerabilityMap: An Open Dataset for Mapping Vulnerability among Urban Disadvantaged Populations in the United States. Under review in *TheWebConf Web4Good Special Track*.
- [1] **Lin Chen**, Fengli Xu, Yong Li, Pan Hui. Heterogeneous Mobility Response in Complex Urban Networks. Ongoing work.

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

- Conference Reviewer:** TNSE'20, TheWebConf'22, IC2S2'22, IMWUT'22, WSDM'23
- Journal Reviewer:** Journal of Social Computing (JSC)

LANGUAGE

Chinese (native, both Putonghua and Teochew), **English** (proficient), **Korean** (beginner)

TALKS AND POSTERS

[Nov 2023, Tokyo] “UrbanLens: Computational Understanding of Urban Lifestyles”, Poster & Pitch @ Rising Stars Women in Engineering Workshop, Asian Deans’ Forum (ADF-RSE’23).

[Sept 2023, Beijing] “Strategic COVID-19 vaccine distribution can simultaneously elevate social utility and equity”, Poster @ the 3rd International Forum on Big Data for Sustainable Development Goals (FBAS’23).

[Aug 2023, Beijing] “Strategic COVID-19 vaccine distribution can simultaneously elevate social utility and equity”, Poster @ the First Research Summit for Urban Science (RSUS’23).

[Jun 2023, Limassol] “Getting Back on Track: Understanding COVID-19 Impact on Urban Mobility and Segregation with Location Service Data”, Oral @ the International AAAI Conference on Web and Social Media (ICWSM’23).