

# LIN CHEN

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

## RESEARCH INTERESTS

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

## EDUCATION

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**Tsinghua University, Beijing**

*Apr. 2023 - Jun 2023*

Visiting Researcher

Advisor: Prof. Yong Li (Director of Future Intelligence Lab)

**University of Chicago, Chicago**

*Dec. 2022 - Apr. 2023*

Visiting Researcher

Advisor: Prof. James Evans (Director of Knowledge Lab)

**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)

**Feng Chia University, Taichung**

*Jul. 2017*

Summer School, Innovation for Aging in Place

## PUBLICATIONS

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[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. To appear in *The 17th International AAAI Conference on Web and Social Media (ICWSM)* (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

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[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 the 29th ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD) (2023).

[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

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<b>ICWSM Student Travel Grant</b>	<i>2023</i>
<b>HKUST Overseas Research Award</b>	<i>2022</i>
<b>Hong Kong PhD Fellowship (HKPFS)</b>	<i>2020-2024</i>
<b>Shanghai Outstanding Bachelor Graduate</b>	<i>2020</i>
<b>Outstanding Student of Tongji University</b>	<i>2019</i>
<b>China National Scholarship</b>	<i>2019</i>
<b>China National Scholarship</b>	<i>2018</i>
<b>China National Scholarship</b>	<i>2017</i>

## TEACHING EXPERIENCE

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<b>COMP 4641: Social Information Network Analysis and Engineering @HKUST</b> <i>Spring 2021</i> Teaching Assistant	
<b>COMP 4021: Internet Computing @HKUST</b> <i>Fall 2021</i> Teaching Assistant	

## ACADEMIC SERVICE

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

## LANGUAGE

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**Chinese** (Native)  
**English** (Proficient)