

Wei Chen

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|-------------------------|--|--------------------------------|
| Research interests | Data mining / Information retrieval, especially in spatio-temporal field. XAI especially in recommendation field / Causal Discovery from ML perspective. | |
| Education | Ocean University of China | Qingdao, China |
| | M.S. in Information Science and Engineering. Mentors: Professors Yanwei Yu , Yongguo Jiang. GPA: 87/100. | 08, 2020 – 06, 2023 (expected) |
| | Jinggangshan University | Jian, China |
| | B.E. in Computer Science Mentors: Professors Lingyu Sun, Ming Leng . GPA: 82/100. Rank: top-10% | 09, 2016 – 06, 2020 |
| Honors and scholarships | National Scholarship (Ministry of Education of China) | 2022 |
| | Outstanding Master Student Award (Ocean University of China) | 2021 |
| | Outstanding Graduate Student Award (Jinggangshan University) | 2020 |
| | National Inspirational Scholarship (Ministry of Education of China) | 2018 |
| Research Project | National Natural Science Foundation of China (grant Nos. 62176243) | |
| | Main Participant | 08, 2021 – Present |
| | <ul style="list-style-type: none">• Project name: Representation Learning for Large-Scale Complex Spatiotemporal Data and Its Applications• Responsibility: Discuss with the professor and write part of the application. As the actual author, I undertake research on two main sub-topics of the fund project. | |
| | Graduate Professional Development Foundation of the Ocean University of China | |
| | Principal Investigator | 01, 2022 – Present |
| | <ul style="list-style-type: none">• Project name: Research and Application of Universal Representation of Large-Scale Trajectory Data Based on Self-Supervised Learning• Responsibility: Conduct a detailed investigation on the latest work such as pre-training of spatio-temporal data and self-supervised learning, and independently write an application. As the PI, I undertake two main topics. | |
| Publications | Mutual Distillation Learning Network for Trajectory-User Linking | |
| | <u>Wei Chen</u> , Shuzhe Li, Chao Huang, Yanwei Yu, Yongguo Jiang, Junyu Dong <i>International Joint Conference on Artificial Intelligence, 2022. Oral</i> | |
| | Trajectory User Linking via Hierarchical Spatio Temporal Attention Networks | |
| | <u>Wei Chen</u> , Chao Huang, Yanwei Yu, Yongguo Jiang, Junyu Dong <i>Under Review of TKDD'22 (CCF-B)</i> | |

MCN4Rec: Multi-Level Collaborative Neural Network for Next Location Recommendation

co-first-author.

Under Review of SIGIR'23. (CCF-A)

Self-Supervised Contrastive Representation Learning for Large-Scale Trajectories

co-first-author.

Under Review of Future Generation Computer Systems Journal. (SCI-I)

Industry experience

Microsoft Research Asia

Beijing, China

Data, Knowledge Intelligence Group & Research Intern

09, 2022 - Present

- Study the Supervised Causal Discovery(A New Frontier of Causal Discovery). Different from using only observational data, we go further and try to support imperfect interventions and unknown intervention targets.
- Investigate the relevant research of causal discovery to build a causal learning toolkit.

iFLYTEK CO.LTD.

Hefei, China

Speech Translation Group of AI Lab & Research Intern

05, 2022 - 09, 2022

- Implementing Multilingual MT-Models in Real World Machine Translation Systems, serving millions of people and achieving significant online improvement.
- Follow up the latest progress in the field of data enhancement, apply it to real business systems, and share it at iFLYTEK Academic Weekly.

Teaching experience

Teaching assistant, Ocean University of China.

Fall 2021

Discrete Mathematics

Assist the teacher in explaining the course content and correcting homework.

Average student rating: 1/5.

Service

SubReviewer of KDD, AAAI, WSDM, SDM, IEEE Transactions on Cybernetics. 2022

SubReviewer of KDD, WWW, AAAI, WSDM, SDM, ACM TITS. 2021

SubReviewer of WWW, SDM 2020

Skills

Programming

Proficient in: Python, C++, C, Shell script, JavaScript(ranked by proficiency)

Tools and Frameworks

Pytorch, Scikit-learn, Tensorflow, Latex, Git.

Languages

Mandarin (Native), English (CET-6)

Other interests

Love sports and explore new and interesting things.