

Chongming Gao 高崇铭

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Research Interests

Data Mining, Information Retrieval and Artificial Intelligence, with a focus on leveraging methods such as graph analysis or causal inference, to a wide range of questions including spatio-temporal data analysis, conversational recommender system, and so on..

Experiences

- 2020.07–Now
Research Intern **Kuaishou**.
Research intern under the supervision of [Wenqiang Lei](#), Peng Jiang, Biao Li, and [Xiangnan He](#).
Researches topics: interactive and conversational recommender systems.
- 2019.03–2019.09
Research Intern **Alibaba AI Labs**.
Research intern under the supervision of Hao Wang and [Zaiqing Nie](#).
Internship achievement: solved shared account-aware recommendation problem in Tmall Genie.

Education

- 2020.09–Now
D.Eng. **University of Science and Technology of China (USTC)**.
School of Information Science and Technology.
Advisor: [Xiangnan He](#).
Research topics: conversational recommender systems; causal recommendation.
- 2016.09–2019.06
M.Eng. **University of Electronic Science and Technology of China (UESTC)**.
Department of Computer Science and Technology.
Supervisor: [Junming Shao](#).
Thesis: Trajectory Semantic Representation and Location Recommender Systems.
- 2012.09–2016.06
B.Eng. **University of Electronic Science and Technology of China (UESTC)**.
Yingcai Honors College (Elite program of UESTC). GPA: 3.81, Ranking: 9/72
Supervisor: [Junming Shao](#), since the junior year.
Thesis: Synchronization-inspired Co-clustering and Its Application to Gene Expression Data.

Tutorial

- Tutorial**
(3 hours)
RecSys 2021 Tutorial on Conversational Recommendation: Formulation, Methods, and Evaluation.
Wenqiang Lei, [Chongming Gao](#), Maarten de Rijke
RecSys 2021 Tutorial.

Research Publications

- AI Open
Survey
Advances and Challenges in Conversational Recommender Systems: A Survey.
[Chongming Gao](#), [Wenqiang Lei](#), [Xiangnan He](#), [Maarten de Rijke](#), [Tat-Seng Chua](#)
AI Open. Vol. 2. (2021) 100-126.

- IS'20 **Semantic Trajectory Representation and Retrieval via Hierarchical Embedding.**
Chongming Gao, Chen Huang, Zhong Zhang, Qinli Yang, Junming Shao
Information Sciences (IS'20)
(SJR Q1, H index: 154, CiteScore: 6.90, Impact Factor: 5.524).
- EMNLP'20 **Revisiting Representation Degeneration Problem in Language Modeling.**
Zhong Zhang, Chongming Gao, Cong Xu, Rui Miao, Qinli Yang, Junming Shao
Findings of EMNLP, 2020.
(CORE2020 Rank: A, CCF B).
- DASFAA'19 **Towards Robust Arbitrarily Oriented Subspace Clustering** Best Paper Award.
Zhong Zhang, Chongming Gao, Chongzhi Liu, Qinli Yang, Junming Shao
International Conference on Database Systems for Advanced Applications (DASFAA'19),
(CORE2020 Rank B, CCF B)
- DASFAA'19 **BLOMA: Explain Collaborative Filtering via Boosted Local Rank-One Matrix Approximation.**
Chongming Gao, Shuai Yuan, Zhong Zhang, Hongzhi Yin, Junming Shao
International Conference on Database Systems for Advanced Applications (DASFAA'19),
(CORE2020 Rank B, CCF B)
- KBS'19 **Semantic Trajectory Compression via Multi-resolution Synchronization-based Clustering.**
Chongming Gao, Yi Zhao, Ruizhi Wu, Qinli Yang, Junming Shao
Knowledge-Based Systems (KBS'19),
(SJR Q1, H Index: 94, CiteScore: 7.01, Impact Factor: 5.101)
- ICDM'19 **Online Budgeted Least Squares with Unlabeled Data.**
Chen Huang, Peiyan Li, Chongming Gao, Qinli Yang, Junming Shao
IEEE International Conference on Data Mining (ICDM'19),
(CORE2020 Rank: A*, CCF B).
- ICDM'19 **Generating Reliable Friends via Adversarial Training to Improve Social Recommendation.**
Junliang Yu, Min Gao, Hongzhi Yin, Jundong Li, Chongming Gao, Qinyong Wang
IEEE International Conference on Data Mining (ICDM'19),
(CORE2020 Rank: A*, CCF B).
- DASFAA'19 **SemiSync: Semi-supervised Clustering by Synchronization.**
Zhong Zhang, DiDi Kang, Chongming Gao, Junming Shao
International Conference on Database Systems for Advanced Applications (DASFAA'19),
(CORE2020 Rank B, CCF B)
- ICDM'17 **Synchronization-inspired Co-clustering and Its Application to Gene Expression Data.**
Junming Shao, Chongming Gao, Wei Zeng, Jingkuan Song, Qinli Yang
IEEE International Conference on Data Mining (ICDM'17),
(CORE2020 Rank: A*, CCF B).

Awards

- 2019 One of our papers won the **Best Paper Award** of DASFAA'19 (CORE2020 Rank B, CCF B).
- 2019 *Outstanding Master's Thesis Award* of UESTC. (86/3744)
- 2019 *Outstanding Graduate Student Award* of UESTC.
- 2016 **Rank No.1** in Undergraduate Thesis Defense of UESTC. *Outstanding Undergraduation Thesis.*
- 2016 *Outstanding Undergraduate Student Award* of UESTC. Top 10 in Yingcai Honors College.
- 2014 *Meritorious Winner* for CSIAM's China Undergraduate Mathematical Contest in Modeling.
- 2013 *First Prize* in Sichuan Contest District in China Undergraduate Mathematical Contest in Modeling.
- 2012 *Tang Lixin Scholarship* of UESTC. Top 60 out of over 25,000 undergraduate and graduate students.

2012 **Rank No.1** in entering UESTC from Yunnan Province (Score: 614).

Computer Skills

Programming Python, MATLAB, JAVA, C/C++, \LaTeX , HTML5+CSS3+Javascript
Prototyping Adobe Illustrator, Adobe Photoshop

Interests

Reading, Badminton, Jogging, Diving, Climbing, Photography.