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 Biao Li and Peng Jiang. Researches topics: interactive and conversational recommender systems.
2023.03–Now Research Intern	**Alibaba DAMO Academy**. Research intern under the supervision of Ziqian Chen and Jinyang Gao. Research topics: AI for social sciences.
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 Ph.D.	**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*.

SIGIR '23   **Alleviating Matthew Effect of Offline Reinforcement Learning in Interactive Recommendation**.

Chongming Gao, Kexin Huang, Jiawei Chen, Yuan Zhang, Biao Li, Peng Jiang, Shiqi Wang, Zhong Zhang, Xiangnan He

ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR '23**)

(CCF A).

TOIS '23   **CIRS: Bursting Filter Bubbles by Counterfactual Interactive Recommender System**.

Chongming Gao, Wenqiang Lei, Jiawei Chen, Shiqi Wang, Xiangnan He, Shijun Li, Biao Li, Yuan Zhang, Peng Jiang

Transactions on Information Systems (**TOIS '23**)

(CCF A).

WWW '23   **On the Theories Behind Hard Negative Sampling for Recommendation**.

Wentao Shi, Jiawei Chen, Fuli Feng, Jizhi Zhang, Junkang Wu, Chongming Gao, Xiangnan He

International World Wide Web Conference, 2023 (**WWW '23**)

(CCF A).

CIKM '22 (Resource Paper)   **KuaiRand: An Unbiased Sequential Recommendation Dataset with Randomly Exposed Videos**.

Chongming Gao, Shijun Li, Yuan Zhang, Jiawei Chen, Biao Li, Xiangnan He, Wenqiang Lei, Peng Jiang

International Conference on Information and Knowledge Management, 2022 (**CIKM '22**)

(CCF B).

CIKM '22   **KuaiRec: A Fully-observed Dataset and Insights for Evaluating Recommender Systems**.

Chongming Gao, Shijun Li, Wenqiang Lei, Biao Li, Peng Jiang, Jiawei Chen, Xiangnan He, Jiaxin Mao, Tat-Seng Chua

International Conference on Information and Knowledge Management, 2022 (**CIKM '22**)

(CCF B).

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, <u>Chongming Gao</u>, 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, <u>Chongming Gao</u>, 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, <u>Chongming Gao</u>, 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, <u>Chongming Gao</u>, Wei Zeng, Jingkuan Song, Qinli Yang *IEEE International Conference on Data Mining* (**ICDM'17**), (CORE2020 Rank: A*, CCF B).

Awards

2023	*SIGIR Student Travel Award* (CCF A).
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++, HTML5+CSS3+Javascript
Prototyping	LaTeX, Adobe Illustrator, Adobe Photoshop

Interests

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