

Chongming Gao

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Research Interests

Data Mining and Machine Learning, with a focus on leveraging graph analysis techniques and embedding techniques, to a wide range of questions including spatio-temporal data analysis, recommender system, dialogue system, and so on.

Experiences

- After 2020 **The University of Queensland, Australia.**
Ph.D. in School of Information Technology and Electrical Engineering (ITEE)
Supervisor: [Hongzhi Yin](#).
Research topics: Recommendation and dialogue systems.
- 2019.03–2019.09 **Alibaba DAMO Academy AI Labs.**
Research intern under the supervision of [Hao Wang](#) and [Zaiqing Nie](#).
Internship achievement: Submitted a paper to WWW'20 (still under review).
- 2016.09–2019.06 **University of Electronic Science and Technology of China.**
M.Eng. in Department of Computer Science and Technology.
Supervisor: [Junming Shao](#).
Thesis: Synchronization-inspired Co-clustering and Its Application to Gene Expression Data.
- 2012.09–2016.06 **University of Electronic Science and Technology of China.**
B.Eng. in *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.

Research Publications (The work marked with * will be described in the last section)

- Accepted ***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),
(CORE2018 Rank B, CCF B, Rating: 3.0)
- Accepted ***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 Rank Q1, H Index: 82, ERA2010 Rating: 5.0)
- Accepted ***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),
(CORE2018 Rank: A*, Rating: 5.0, CCF B).
- Accepted **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),
(CORE2018 Rank B, Rating: 3.0, CCF B)

- Accepted **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),
(CORE2018 Rank: A*, Rating: 5.0, CCF B).
- Accepted **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),
(CORE2018 Rank: A*, Rating: 5.0, CCF B).
- Accepted **SemiSync: Semi-supervised Clustering by Synchronization.**
Zhong Zhang, DiDi Kang, Chongming Gao, Junming Shao
International Conference on Database Systems for Advanced Applications (DASFAA'19),
(CORE2018 Rank B, CCF B, Rating: 3.0, CCF B)
- Under Review **Semantic Trajectory Representation and Retrieval via Hierarchical Embedding.**
Chongming Gao, Chen Huang, Zhong Zhang, Qinli Yang, Junming Shao
Submitted to *Information Sciences*, still under review
(SJR Q1, H index: 154).
- Under Review ***Item Recommendation on Shared Accounts through User Identification.**
Chongming Gao, Hao Wang, Junliang Yu, Yong Cao, Zaiqing Nie, Hongzhi Yin
Submitted to *ACM International Conference on Web Search and Data Mining (WWW'20)*
(CORE2018 Rank A*, CCF B), still under review.

Awards

- 2019 One of our papers won the **Best Paper Award** of DASFAA'19 (CORE2018 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, Jogging, Diving, Climbing, Photography, Drawing.