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 WSDM'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, <u>Chongming Gao</u>, 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, <u>Chongming Gao</u>, 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, <u>Chongming Gao</u>, 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**.
<u>Chongming Gao</u>, 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**.
<u>Chongming Gao</u>, Hao Wang, Junliang Yu, Yong Cao, Zaiqing Nie, Hongzhi Yin
Submitted to *ACM International Conference on Web Search and Data Mining* (**WSDM'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.