

Zemin Liu

PHOTOGRAPH



CONTACT INFORMATION

Google Scholar: <https://scholar.google.com/citations?user=IxH01nkAAAAJ>

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RESEARCH INTERESTS

I'm interested in the research of graph representation learning, including graph embedding, graph neural networks, and heterogeneous information networks. In particular, I mainly focus on investigating the novel research problems such as meta-learning, few-shot learning, and imbalanced learning on graph.

EDUCATIONS

Visiting Scholar & Research Engineer November 2016 - September 2017
Advanced Digital Sciences Center (ADSC), Singapore

Advisor: Dr. Vincent W. Zheng¹

Ph.D. in Computer Science September 2012 - September 2018
College of Computer Science and Technology, Zhejiang University, P.R.China.

Advisor: Prof. Jing Ying

Bachelor in Software Engineering September 2008 - June 2012
School of Software, Shandong University, P.R.China.

PROFESSIONAL EXPERIENCE

Research Scientist April 2019 - Present
School of Computing and Information Systems, Singapore Management University, Singapore.

Work with: Assistant Prof. Yuan Fang² and Prof. Steven C.H. Hoi³

I'm responsible for conducting research in the field of graph representation learning, meta-learning and imbalanced learning, and contributing papers to top-tier conferences and journals.

ACADEMIC SERVICES

Program Committee Member or Reviewer for Conferences:
2019: ASONAM (subreviewer), AAAI (subreviewer), CIKM (subreviewer).
2020: ACML, EMNLP, IJCAI, NeurIPS, PAKDD.

¹<http://vincentz.cc/>

²<https://www.yfang.site/>

³<https://sites.google.com/view/stevenhoi/home>

2021: AAAI, ACL, ICML, IJCAI (**Senior PC**), NeurIPS, PAKDD, ACML, EMNLP, NAACL-HLT.
2022: ICLR.

Reviewer for Journals:

2018: TKDE (IEEE Transactions on Knowledge and Data Engineering).

2020: FCS (Frontiers of Computer Science), IPM (Information Processing and Management).

2021: FCS, Machine Learning.

SELECTED PUBLICATIONS

Zemin Liu, Vincent W. Zheng, Zhou Zhao, Fanwei Zhu, Kevin Chen-Chuan Chang, Minghui Wu, Jing Ying. *Semantic Proximity Search on Heterogeneous Graph by Proximity Embedding*, The 31st AAAI Conference on Artificial Intelligence (**AAAI'17**), full paper.

Jia Wang, Vincent W. Zheng, **Zemin Liu**, and Kevin C.-C. Chang. *Topological Recurrent Neural Network for Diffusion Prediction*, IEEE International Conference on Data Mining 2017 (**ICDM'17**), full paper.

Zemin Liu, Vincent W. Zheng, Zhou Zhao, Fanwei Zhu, Kevin Chen-Chuan Chang, Minghui Wu, Jing Ying. *Distance-aware DAG Embedding for Proximity Search on Heterogeneous Graphs*, The 32nd AAAI Conference on Artificial Intelligence (**AAAI'18**), full paper.

Zemin Liu, Vincent W. Zheng, Zhou Zhao, Hongxia Yang, Kevin C.-C. Chang, Minghui Wu and Jing Ying. *Subgraph-augmented Path Embedding for Semantic User Search on Heterogeneous Social Network*, The Web Conference 2018 (**WWW'18**), full paper.

Zemin Liu, Vincent W. Zheng, Zhou Zhao, Zhao Li, Hongxia Yang, Minghui Wu and Jing Ying. *Interactive Paths Embedding for Semantic Proximity Search on Heterogeneous Graphs*, The 24th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'18**), Research Track, full paper.

Wentao Zhang, Yuan Fang, **Zemin Liu**, Min Wu, Xinming Zhang. *mg2vec: Learning relationship-preserving heterogeneous graph representations via metagraph embedding*, IEEE Transactions on Knowledge and Data Engineering 2020 (**TKDE**), full paper.

Zemin Liu*, Wentao Zhang*, Yuan Fang, Xinming Zhang, Steven CH Hoi. *Towards locality-aware meta-learning of tail node embeddings on networks*, The 29th ACM International Conference on Information and Knowledge Management (**CIKM'20**), full paper. (* denotes co-first author)

Zemin Liu, Yuan Fang, Chenghao Liu, Steven CH Hoi. *Relative and Absolute Location Embedding for Few-Shot Node Classification on Graph*, The 35th AAAI Conference on Artificial Intelligence (**AAAI'21**), full paper.

Zemin Liu, Yuan Fang, Yong Liu, Vincent W. Zheng. *Neighbor-Anchoring Adversarial Graph Neural Networks*, IEEE Transactions on Knowledge and Data Engineering 2021 (**TKDE**), full paper.

Zhihao Wen, Yuan Fang, **Zemin Liu**. *Meta-Inductive Node Classification across Graphs*, The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR'21**), full paper.

Zemin Liu, Yuan Fang, Chenghao Liu, Steven CH Hoi. *Node-wise Localization of Graph Neural Networks*, The 30th International Joint Conference on Artificial Intelligence (**IJCAI'21**), full paper.

Zemin Liu, Kien Nguyen, Yuan Fang. *Tail-GNN: Tail-Node Graph Neural Networks*, The 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'21**), Research Track, full paper.

Ph.D THESIS	<i>Semantic Proximity Search on Heterogeneous Graphs by Embedding Methods.</i> June 2018
SELECTED AWARDS	<i>Outstanding Ph.D Candidate Scholarship</i> , College of Computer Science and Technology, Zhejiang University 2016
	<i>Outstanding Graduate Leader Award</i> , Zhejiang University 2016
	<i>Outstanding Postgraduates Graduated Scholarship</i> , College of Computer Science and Technology, Zhejiang University 2017
	<i>“Tianzhou Chen Fund” Scholarship</i> , College of Computer Science and Technology, Zhejiang University 2018