YIWEI WANG

National University of Singapore, Singapore

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EDUCATION

Doctor of Philosophy in Computer Science Jul. 2019 - 2022 (Expected)
National University of Singapore

Master of Philosophy in Electronic and Computer Engineering Aug. 2017 - Jun. 2019
Hong Kong University of Science and Technology

Bachelor of Science in Information Engineering Aug. 2013 - Jun. 2017
Southeast University, **GPA: 3.92/4.0, Rank: 5/218 (Top 3%)**.

INTERNSHIPS AND EXCHANGES

Internship at Alibaba Co. Ltd., Hangzhou Oct, 2021 - Jan, 2022

· Work as a **research intern** to develop methods on Natural Language Processing.

Internship at Tiktok Co. Ltd., Singapore Mar, 2021 - Aug, 2021

· Work as a **research intern** to develop methods on Temporal Graph Learning and Recommendation.

Internship at Tencent Co. Ltd., Shenzhen Dec, 2018 - Jul, 2019

· Work as a **research intern** to develop methods on Computer Vision.

Exchange Program at Monash University, Melbourne Jan. 2017 - May. 2017

· Completed the final-year project on Data Mining and Natural Language Processing.

RESEARCH IN PROGRESS

[1] **Yiwei Wang**, Muhao Chen, Wenxuan Zhou, Yujun Cai, Yuxuan Liang, and Bryan Hooi. *GraphCache: Message Passing as Caching for Sentence-Level Relation Extraction*

[2] **Yiwei Wang**, Muhao Chen, Wenxuan Zhou, Yujun Cai, Yuxuan Liang, Dayiheng Liu, Baosong Yang, Juncheng Liu, and Bryan Hooi *Should We Rely on Entity Mentions for Relation Extraction? Debiasing Relation Extraction with Counterfactual Analysis*

[3] **Yiwei Wang**, Yujun Cai, Yuxuan Liang, Henghui Ding, Changhu Wang, and Bryan Hooi *Time-Aware Neighbor Sampling for Temporal Graph Networks*

RESEARCH PUBLICATION

[1] **Yiwei Wang**, Yujun Cai, Yuxuan Liang, Henghui Ding, Changhu Wang, Siddharth Bhatia, and Bryan Hooi. Adaptive Data Augmentation on Temporal Graphs, *Neural Information Processing Systems (NeurIPS) 2021.*

[2] **Yiwei Wang**, Wei Wang, Yuxuan Liang, Yujun Cai, and Bryan Hooi. Mixup for Node and Graph Classification, *The Web Conference (WWW) 2021.* (Acceptance Rate: 20.6%)

[3] **Yiwei Wang**, Wei Wang, Yuxuan Liang, Yujun Cai, and Bryan Hooi. CurGraph: Curriculum Learning for Graph Classification, *The Web Conference (WWW) 2021.* (Acceptance Rate: 20.6%)

[4] **Yiwei Wang**, Shenghua Liu, Minji Yoon, Hemank Lamba, Wei Wang, Christos Faloutsos, and Bryan Hooi. Provably Robust Node Classification via Low-Pass Message Passing, *IEEE International Conference on Data Mining (ICDM) 2020.* (Acceptance Rate: 9.8%)

[5] **Yiwei Wang**, Wei Wang, Yujun Cai, Bryan Hooi and Beng Chin Ooi. Detecting Implementation Bugs in Graph Convolutional Network based Node Classifiers, *International Symposium on Software Reliability Engineering (ISSRE) 2020.* (Acceptance Rate: 25.7%)

[6] **Yiwei Wang**, Wei Wang, Yuxuan Liang, Yujun Cai and Bryan Hooi. Progressive Supervision for Node Classification, *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2020.* (Acceptance Rate: 19.1%)

[7] **Yiwei Wang**, Wei Wang, Yuxuan Liang, Yujun Cai, Juncheng Liu and Bryan Hooi. NodeAug: Semi-Supervised Node Classification with Data Augmentation, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2020. (Acceptance Rate: 16.9%)

[8] **Yiwei Wang**, Mark James Carman, and Yuan-Fang Li. Using Knowledge Graphs to Explain Entity Co-occurrence in Twitter. *Proceedings of the 2017 ACM on Conference on Information and Knowledge Management (CIKM) 2017.*

[9] Juncheng Liu, Kenji Kawaguchi, Bryan Hooi, **Yiwei Wang**, Xiaokui Xiao. EIGNN: Efficient Infinite-Depth Graph Neural Networks, *Neural Information Processing Systems (NeurIPS) 2021.*

[10] Yujun Cai, **Yiwei Wang**, et al. A Unified 3D Human Motion Synthesis Model via Conditional Variational Auto-Encoder, *International Conference on Computer Vision (ICCV) 2021.*

[11] Yuxuan Liang, Kun Ouyang, Hanshu Yan, **Yiwei Wang**, Zekun Tong and Roger Zimmermann. Modeling Trajectories with Neural Ordinary Differential Equations. *International Joint Conference on Artificial Intelligence (IJCAI) 2021.* (Acceptance Rate: 13.9%)

[12] Yuxuan Liang, Kun Ouyang, Junkai Sun, **Yiwei Wang**, Junbo Zhang, Yu Zheng, David Rosenblum, and Roger Zimmermann. Fine-Grained Urban Flow Prediction. *The Web Conference (WWW) 2021.* (Acceptance Rate: 20.6%)

[13] Siddharth Bhatia, **Yiwei Wang**, Bryan Hooi, Tanmoy Chakraborty. GraphAnoGAN: Detecting Anomalous Snapshots from Attributed Graphs, *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2021.*

[14] Yujun Cai, Lin Huang, **Yiwei Wang**, et al. Learning Progressive Joint Propagation for Human Motion Prediction, *European Conference on Computer Vision (ECCV) 2020.*

[15] Yuxuan Liang, Kun Ouyang, **Yiwei Wang**, Ye Liu, Junbo Zhang, Yu Zheng, David S. Rosenblum. Revisiting Convolutional Neural Networks for Citywide Crowd Flow Analytics. *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2020.* (Acceptance Rate: 19.1%)

[16] Licheng Zhao, **Yiwei Wang**, Sandeep Kumar, and Daniel P. Palomar, Optimization Algorithms for Graph Laplacian Estimation via ADMM and MM. *IEEE Transactions on Signal Processing, 2019.*

HONORS AND AWARDS

SDSC Dissertation Research Fellowship (10 annual quotas for Singapore-based Ph.D. Students)	Mar. 2021
Research Achievement Award from School of Computing of National University of Singapore	Sep. 2020
Meritorious Winner of the Interdisciplinary Contest in Modeling (ICM) held by COMAP **(7%)**	Apr. 2016
National Scholarship from Southeast University of China **(3%)**	Oct. 2015

SERVICE AS REVIEWER

- The AAAI Conference on Artificial Intelligence (AAAI) 2021, 2022
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2021, 2022
- International Conference on Computer Vision (ICCV) 2021, 2022

- International Joint Conference on Artificial Intelligence (IJCAI-ECAI) 2022
- IEEE International Conference on Multimedia and Expo (ICME) 2022
- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2020
- Neurocomputing
- Pattern Recognition
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IET Image Processing

ABILITIES AND SKILLS

Languages: Chinese, English (IELTS: **8.0**).

Programming: Advanced with MATLAB, Python. Familiar with C/C++, JAVA.