

YIWEI WANG

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WORK

Postdoc at UCLA

Sep. 2023 - Now

I do research on the Controllable Generation of Large Language Models advised by Prof. Kai-Wei Chang and Prof. Nanyun Peng.

Applied Scientist in Amazon

Sep. 2022 - Sep. 2023

I mainly developed two fraud detection solutions: 1) a graph learning model to detect ring of abuse sellers; 2) a transformer model to detect fraud sellers from the seller-wise historical events.

EDUCATION

Doctor of Philosophy in Computer Science

Jul. 2019 - Mar. 2023

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%)**

SELECTED RESEARCH PUBLICATION

Yiwei Wang, Yujun Cai, Muhao Chen, Yuxuan Liang, Bryan Hooi. Primacy Effect of ChatGPT, *The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP) 2023*.

Yiwei Wang, Bryan Hooi, Fei Wang, Yujun Cai, Yuxuan Liang, Wenxuan Zhou, Jing Tang, Manjuan Duan, Muhao Chen. How Fragile is Relation Extraction under Entity Replacements?, *The SIGNLL Conference on Computational Natural Language Learning (CONLL) 2023*.

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, *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2022*.

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*.

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%)

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%)

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%)

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*.

Baolong Bi, Shenghua Liu, **Yiwei Wang**, Lingrui Mei, Xueqi Cheng. LPNL: Scalable Link Prediction with Large Language Models, (*ACL*) 2024.

Juncheng Liu, Bryan Hooi, Kenji Kawaguchi, **Yiwei Wang**, Chaosheng Dong, Xiaokui Xiao. Scalable and Effective Implicit Graph Neural Networks on Large Graphs, *ICLR* 2024.

Xu Liu, Yutong Xia, Yuxuan Liang, Junfeng Hu, **Yiwei Wang**, Lei Bai, Chao Huang, Zhengguang Liu, Bryan Hooi, Roger Zimmermann. LargeST: A Benchmark Dataset for Large-Scale Traffic Forecasting, *Neural Information Processing Systems (NeurIPS)* 2023.

Yuxuan Liang, Yutong Xia, Songyu Ke, **Yiwei Wang**, Qingsong Wen, Junbo Zhang, Yu Zheng, and Roger Zimmermann. AirFormer: Predicting Nationwide Air Quality in China with Transformers, *The Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)* 2023.

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

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.

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%)

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%)

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

HONORS AND AWARDS

Dean's Graduate Research Excellence Award (Highest honor of PhD students at NUS with 3 to 4 recipients per year) Jul. 2022

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

ABILITIES AND SKILLS

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

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