

Yanqiao ZHU

📍 404 Westwood Plaza, Engineering VI, Los Angeles, CA 90095-1596

📞 (+86) 153 0171 6820 · 📧 yzhu@cs.ucla.edu · @ <https://SXXDZ.github.io>

🏛️ Academic Background

🎓 Doctor of Philosophy

Department of Computer Science, University of California at Los Angeles

(2022 – present)

California, United States

◇ Advisors: Professors [Wei Wang](#) and [Yizhou Sun](#)

🎓 Master of Engineering

Institute of Automation, Chinese Academy of Sciences

(2019 – 2022)

Beijing, China

◇ Advisors: Professors [Tieniu Tan](#) and [Shu Wu](#)

◇ Thesis title: *Self-Supervised Representation Learning on Graph-Structured Data*

◇ Committee: [Xilin Chen](#) (Chair), [Zhouchen Lin](#), [Ji-Rong Wen](#), [Jiwen Lu](#), [Peng Cui](#), and [Shiming Xiang](#)

🎓 Bachelor of Engineering

School of Software Engineering, Tongji University

(2015 – 2019)

Shanghai, China

◇ Graduated with honors

Overall GPA: 4.71/5.0 · Rank: 8/160 (5.0%)

☰ Research Experience

🎓 Visiting Student

Department of Computer Science, Emory University

(2021 – 2022)

Georgia, United States

◇ Worked on brain network analysis under supervision of Professor [Carl J. Yang](#)

📖 Selected Publications

▸ Citations: 1289

▸ h-index: 10

▸ i10-index: 10

Conference Papers

[c10] **Interpretable Graph Neural Networks for Connectome-Based Brain Disorder Analysis**

Hejie Cui, Wei Dai, [Yanqiao Zhu](#), Xiaoxiao Li, Lifang He, and Carl Yang

MICCAI 2022

[c9] **Data-Efficient Brain Connectome Analysis via Multi-Task Meta-Learning**

Yi Yang*, [Yanqiao Zhu](#)*, Hejie Cui, Xuan Kan, Lifang He, Ying Guo, and Carl Yang

KDD 2022 (Health Day)

[c8] **Joint Embedding of Structural and Functional Brain Networks with Graph Neural Networks for Mental Illness Diagnosis**

[Yanqiao Zhu](#), Hejie Cui, Lifang He, Lichao Sun, and Carl Yang

EMBC 2022

- [c7] **Structure-Enhanced Heterogeneous Graph Contrastive Learning**
Yanqiao Zhu*, Yichen Xu*, Hejie Cui, Carl Yang, Qiang Liu, and Shu Wu
SDM 2022
- [c6] **An Empirical Study of Graph Contrastive Learning**
Yanqiao Zhu, Yichen Xu, Qiang Liu, and Shu Wu
NeurIPS 2021 (Datasets and Benchmarks)
- [c5] **Disentangled Self-Attentive Neural Networks for Click-Through Rate Prediction**
Yichen Xu*, Yanqiao Zhu*, Feng Yu, Qiang Liu, and Shu Wu
CIKM 2021 (Short Paper)
- [c4] **Mining Latent Structures for Multimedia Recommendation**
Jinghao Zhang*, Yanqiao Zhu*, Qiang Liu, Shu Wu, Shuhui Wang, and Liang Wang
ACM Multimedia 2021 (Oral Presentation)
- [c3] **Graph Contrastive Learning with Adaptive Augmentation**
Yanqiao Zhu*, Yichen Xu*, Feng Yu, Qiang Liu, Shu Wu, and Liang Wang
WWW 2021
- [c2] **TAGNN: Target Attentive Graph Neural Networks for Session-based Recommendation**
Feng Yu*, Yanqiao Zhu*, Qiang Liu, Shu Wu, Liang Wang, and Tieniu Tan
SIGIR 2020 (Short Paper)
- [c1] **Session-based Recommendation with Graph Neural Networks**
Shu Wu, Yuyuan Tang, Yanqiao Zhu, Liang Wang, Xing Xie, and Tieniu Tan
AAAI 2019 (Oral Presentation)

Journal Papers

- [j2] **GraphAIR: Graph Representation Learning with Neighborhood Aggregation and Interaction**
Fenyu Hu*, Yanqiao Zhu*, Shu Wu, Weiran Huang, Liang Wang, and Tieniu Tan
Pattern Recognit. 112
- [j1] **Active Learning for Wireless IoT Intrusion Detection**
Kai Yang, Jie Ren, Yanqiao Zhu, and Weiyi Zhang
IEEE Wirel. Commun. 25(6)

Workshop Papers

- [w3] **Pre-training Graph Neural Networks for Molecular Representations: Retrospect and Prospect**
Jun Xia, Yanqiao Zhu, Yuanqi Du, and Stan Z. Li
AI4Science@ICML 2022
- [w2] **Featurizations Matter: A Multiview Contrastive Learning Approach to Molecular Pretraining**
Yanqiao Zhu*, Dingshuo Chen*, Yuanqi Du*, Yingze Wang, Qiang Liu, and Shu Wu
AI4Science@ICML 2022
- [w1] **Deep Graph Contrastive Representation Learning**
Yanqiao Zhu*, Yichen Xu*, Feng Yu, Qiang Liu, Shu Wu, and Liang Wang
GRL+@ICML 2020

Preprints

- [p5] **BrainGB: A Benchmark for Brain Network Analysis with Graph Neural Networks**
Hejie Cui, Wei Dai, [Yanqiao Zhu](#), Xuan Kan, Antonio Aodong Chen Gu, Joshua Lukemire, Liang Zhan, Lifang He, Ying Guo, and Carl Yang
arXiv: [2204.07054 \[q-bio.NC\]](#) (Under major revision of TMI)
- [p4] **A Survey on Deep Graph Generation: Methods and Applications**
[Yanqiao Zhu*](#), Yuanqi Du*, Yinkai Wang*, Yichen Xu, Jieyu Zhang, Qiang Liu, and Shu Wu
arXiv: [2203.06714 \[cs.LG\]](#)
- [p3] **Latent Structure Mining with Contrastive Modality Fusion for Multimedia Recommendation**
Jinghao Zhang, [Yanqiao Zhu](#), Qiang Liu, Mengqi Zhang, Shu Wu, and Liang Wang
arXiv: [2111.00678 \[cs.IR\]](#) (Under major revision of TKDE)
- [p2] **A Survey on Graph Structure Learning: Progress and Opportunities**
[Yanqiao Zhu](#), Weizhi Xu, Jinghao Zhang, Yuanqi Du, Jieyu Zhang, Qiang Liu, Carl Yang, and Shu Wu
arXiv: [2103.03036 \[cs.LG\]](#)
- [p1] **Unsupervised Graph Representation Learning with Cluster-Aware Self-Training and Refining**
[Yanqiao Zhu*](#), Yichen Xu*, Feng Yu, and Shu Wu
arXiv: [2009.01674 \[cs.LG\]](#) (Under major revision of TIST)

Academic Services

Conference Organizers

- Organizing Committee Member, Learning on Graphs Conference (LOG) 2022
- Session Chair, The Web Conference (WWW) 2022

Workshop Organizers

- The 1st International Workshop on (Deep) Neural Networks for Brain Connectome Analysis (BrainNN), in conjunction with IEEE BigData 2022 2022

Program Committee Members of Conferences

- Conference on Neural Information Processing Systems (NeurIPS) 2020~2022
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2022
- International Conference on Machine Learning (ICML) 2021, 2022
- International Conference on Learning Representations (ICLR) 2021, 2022
- The Web Conference (WWW) 2021
- AAAI Conference on Artificial Intelligence (AAAI) 2021, 2022
- European Conference on Machine Learning and Knowledge Discovery in Databases (ECML-PKDD) 2020, 2021

Reviewers of Journals

- IEEE Trans. Pattern Anal. Mach. Intell.
- IEEE Trans. Med. Imaging
- IEEE Trans. Neural Netw. Learn. Syst.
- IEEE Trans. Signal Inf. Process. Netw.
- Inf. Process. Manag.
- Int. J. Intell. Syst.
- Neural Process. Lett.

Selected Honors and Awards

- Graduate Dean's Scholar Award, University of California at Los Angeles 2022
- National Scholarship, The Ministry of Education of China 2017, 2021
- NeurIPS Outstanding Reviewer Award 2021
- SIGMM Student Travel Grant Award 2021
- SIGIR Student Travel Award 2021
- ICML Participation Grant 2021
- Outstanding Student of University of Chinese Academy of Sciences 2020, 2021
- Outstanding Undergraduate Thesis of Tongji University 2019
- Outstanding Graduates of Tongji University 2019
- AAAI Student Scholarship 2019
- Pacemaker to Outstanding Undergraduate Student of Tongji University 2018
- 1st Class of Tongji University Student Scholarship 2018

Mentorship

- [Mr. Liang Wang](#) (2022 – present)
 - Undergraduate student at Tongji University
 - Now Master student at Institute of Automation, Chinese Academy of Sciences
- [Mr. Dingshuo Chen](#) (2022 – present)
 - Undergraduate student at Shandong University
 - Now Master student at Institute of Automation, Chinese Academy of Sciences
- [Mr. Yichen Xu](#) (2020 – 2021)
 - Undergraduate at Beijing University of Posts and Telecommunications
 - Now PhD student at School of Computer and Communication Sciences, École Polytechnique Fédérale de Lausanne (EPFL)