Jiaxing Xu (徐家兴)

+65-94366748 | jiaxing003@e.ntu.edu.sg | https://angusmonroe.cn

Nanyang Technological University, 50 Nanyang Ave, 639798, Singapore

EDUCATION

Nanyang Technological University (NTU)	**Singapore**
PhD Candidate in Computer Science, advised by Yiping Ke	Aug 2021 – Dec 2024 (Expected)
Research interests: Graph Representation Learning, Brain Network Analysis, Medical Image Analysis	
University of Auckland	**Auckland, New Zealand**
Visiting Student in School of Computer Science, advised by Miao Qiao	Jul 2024 – Aug 2024
Beihang University (BUAA)	**Beijing, China**
BS in Software Engineering	Sep 2016 - Jun 2020
Nanyang Technological University (NTU)	**Singapore**
Visiting Student in School of Computer Science and Engineering, advised by Yiping Ke	Jul 2019 - Sep 2019

PUBLICATION (* denotes equally contribution, # denotes the corresponding author)

Journal Papers

- **Jiaxing Xu**[#], Qingtian Bian, Xinhang Li, Aihu Zhang, Yiping Ke, Miao Qiao, Wei Zhang, Wei Khang Jeremy Sim, and Balázs Gulyás.
  Contrastive Graph Pooling for Explainable Classification of Brain Networks.
  In *IEEE Transactions on Medical Imaging (TMI'24)* (IF: 11.0). **PREMIA Best Student Paper Award**

- **Jiaxing Xu**[#], Jinjie Ni, Yiping Ke.
  A Class-Aware Representation Refinement Framework for Graph Classification.
  In *Information Sciences* (IF: 8.2).

- Tieying Li, Lingdu Kong, Xiaochun Yang[#], Bin Wang, **Jiaxing Xu**.
  Bridging Modalities: A Survey of Cross-Modal Image-Text Retrieval.
  In *Chinese Journal of Information Fusion*, 2024.

Conference Papers

- **Jiaxing Xu**[#], Kai He, Mengcheng Lan, Qingtian Bian, Wei Li, Tieying Li, Yiping Ke, Miao Qiao.
  Contrasformer: A Brain Network Contrastive Transformer for Neurodegenerative Condition Identification.
  In *Proceedings of the 33rd ACM International Conference on Information and Knowledge Management (CIKM'24)*.

- **Jiaxing Xu**[*#], Aihu Zhang*, Qingtian Bian, Vijay Prakash Dwivedi and Yiping Ke.
  Union Subgraph Neural Networks.
  In *Proceedings of the 38th Annual AAAI Conference on Artificial Intelligence (AAAI'24)*.

- **Jiaxing Xu**[*#], Yunhan Yang*, David Tse Jung Huang*, Sophi Shilpa Gururajapathy*, Yiping Ke, Miao Qiao, Alan Wang, Haribalan Kumar, Josh McGeown, and Eryn Kwon.
  Data-Driven Network Neuroscience: On Data Collection and Benchmark.
  In *Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS'23)*.

- Tieying Li, Xiaochun Yang[#], Yiping Ke, Bin Wang, Yinan Liu, **Jiaxing Xu**.
  Alleviating the Inconsistency of Multimodal Data in Cross-Modal Retrieval.
  In *Proceeding of the IEEE International Conference of Data Engineering* (ICDE'24).

- Mengcheng Lan[#], Xinjiang Wang, Yiping Ke, **Jiaxing Xu**, Litong Feng, and Wayne Zhang.
  SmooSeg: Smoothness Prior for Unsupervised Semantic Segmentation.
  In *Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS'23)*.

- Qingtian Bian[#], **Jiaxing Xu**, Hui Fang, Yiping Ke.
  CPMR: Context-Aware Incremental Sequential Recommendation with Pseudo-Multi-Task Learning. In *Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (CIKM'23)*.

- Xinhang Li, Xiangyu Zhao[#], **Jiaxing Xu**, Yong Zhang[#], Chunxiao Xing.
  IMF: Interactive Multimodal Fusion Model for Link Prediction.
  In *Proceedings of the ACM Web Conference (WWW'23)*.

Under Review Papers

- **Jiaxing Xu**[#], Mengcheng Lan, Xia Dong, Kai He, Wei Zhang, Qingtian Bian, Yiping Ke.
  Multi-Atlas Brain Network Classification through Consistency Distillation and Complementary Information Fusion.

In *Proceedings of the 13th International Conference on Learning Representations (ICLR'25)* (Under Review).

- **Jiaxing Xu**[#], Yongqiang Chen, Xia Dong, Mengcheng Lan, Tiancheng Huang, Qingtian Bian, James Cheng, Yiping Ke
  BrainOOD: Out-of-distribution Generalizable Brain Network Analysis.
  In *Proceedings of the 13th International Conference on Learning Representations (ICLR'25)* (Under Review).
- Kai He, **Jiaxing Xu**, Qika Lin, Jialun Wu, Zeyu Gao, Mengling Feng[#].
  END-RAG: Enriching and Distilling in Retrieval-Augmented Medical Question Answering via Weak Supervision.
  In *Proceedings of the 39th Annual AAAI Conference on Artificial Intelligence (AAAI'25)* (Under Review).
- Wei Li[#], **Jiaxing Xu**, Xia Dong, Yiping Ke.
  Bridge Breaking for Graph Neural Networks.
  In *Proceedings of the 31st ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD'25)* (Under Review).
- Han Lei[#], **Jiaxing Xu**, Jinjie Ni, Yiping Ke.
  Rethinking the Message Passing for Graph-Level Representation Learning in a Category-Based View.
  In *Engineering Applications of Artificial Intelligence (EAAI'24)* (Under Review).

TEACHING EXPERIENCE

School of Computer Science and Engineering, Nanyang Technological University	**Singapore**
Teaching Assistant of *Undergraduate Final Year Project*	Aug 2021 - Present
School of Software, Beihang University	**Beijing, China**
Teaching Assistant of *Practice of Programming*	Aug 2018 - Sep 2018

PROFESSIONAL EXPERIENCE

Automatic Drive Group, SenseTime Group Limited.	**Beijing, China**
Research Intern	Sep 2020 – Jan 2021
Knowledge Computing Group, Microsoft Research Asia (MSRA)	**Beijing, China**
Research Intern, advised by Börje Karlsson	Dec 2019 - Jun 2020
Knowledge Engineering Group (KEG), Tsinghua University	**Beijing, China**
Research Assistant, advised by Jie Tang	Jun 2018 - Jul 2020
Compute Intelligence Lab, Nanyang Technological University	**Singapore**
Research Assistant, advised by Yiping Ke	Jul 2019 - Sep 2019
Big Data Mining Team, Microsoft Research Asia (MSRA)	**Beijing, China**
Research Intern, advised by Börje Karlsson	Mar 2019 - Jun 2019

CONFERENCE/JOURNAL REFEREE

- International Conference on Learning Representations (ICLR), 2025
- International Conference on Artificial Intelligence and Statistics (AISTATS), 2025
- Conference on Neural Information Processing Systems (NeurIPS), 2024
- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2025
- AAAI Conference on Artificial Intelligence (AAAI), 2024, 2025
- International Conference on Medical Imaging and Computer-Aided Diagnosis (MICAD), 2024
- Learning on Graphs Conference (LOG), 2024
- Neural Networks, 2023, 2024
- Engineering Applications of Artificial Intelligence (EAAI), 2022, 2024
- Memetic Computing (MEME), 2021

HONORS & AWARDS

- PREMIA Best Student Paper Honourable Mention Award	2024
- Software College Innovation and Entrepreneurship Scholarship	2019
- Software College Excellent Student Leader Award	2019
- Yuanhang Undergraduate Summer Overseas Research Scholarship	2019
- 3rd Prize of the 29th Feng Ru Cup Science and Technology Competition	2019
- Software College Innovation and Entrepreneurship Scholarship	2018
- 3rd Prize of the 28th Feng Ru Cup Science and Technology Competition	2018
- Software College Excellent Student Leader Award	2017