

# Jiaxing Xu (徐家兴)

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## 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**<sup>#</sup>, 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 Honourable Mention Award**
- **Jiaxing Xu**<sup>#</sup>, 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<sup>#</sup>, 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**<sup>#</sup>, 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**<sup>\*\*</sup>, Aihu Zhang<sup>\*</sup>, 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**<sup>\*\*</sup>, Yunhan Yang<sup>\*</sup>, David Tse Jung Huang<sup>\*</sup>, Sophi Shilpa Gururajapathy<sup>\*</sup>, 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<sup>#</sup>, 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<sup>#</sup>, 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<sup>#</sup>, **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)*. **Oral**
- Xinhang Li, Xiangyu Zhao<sup>#</sup>, **Jiaxing Xu**, Yong Zhang<sup>#</sup>, Chunxiao Xing.  
IMF: Interactive Multimodal Fusion Model for Link Prediction.  
In *Proceedings of the ACM Web Conference (WWW'23)*.

### Under Review Papers

- **Jiaxing Xu**<sup>#</sup>, 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 38th Conference on Neural Information Processing Systems (NeurIPS'24)* (Under Review).
- Miao Qiao, Yunhan Yang, **Jiaxing Xu**<sup>#</sup>, Yiping Ke, Jing Sun.  
On Data-driven Brain Network Analysis: Is the Spatial Information Important?  
In *Proceedings of the 38th Conference on Neural Information Processing Systems (NeurIPS'24)* (Under Review).
- Kai He, **Jiaxing Xu**, Qika Lin, Jialun Wu, Zeyu Gao, Mengling Feng<sup>#</sup>.  
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<sup>#</sup>, **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<sup>#</sup>, **Jiaxing Xu**, Xia Dong, Yiping Ke.  
Divergent Paths: Separating Homophilic and Heterophilic Learning for Enhanced Graph-level Representations. In *Proceedings of the IEEE International Conference on Data Mining (ICDM'24)* (Under Review).

## TEACHING EXPERIENCE

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

## PROFESSIONAL EXPERIENCE

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

## CONFERENCE/JOURNAL REFEREE

- International Conference on Learning Representations (ICLR), 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