**Jiaxing Xu (徐家兴)**

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Nanyang Technological University, 50 Nanyang Ave, 639798, Singapore

**EDUCATION**

**Nanyang Technological University (NTU) Singapore**

PhD Candidate in Computer Science, advised by Yiping KeAug 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 QiaoJul 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 KeJul 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 Honourable Mention Award**

* **Jiaxing Xu#**, Jinjie Ni, Yiping Ke.

A Class-Aware Representation Refinement Framework for Graph Classification.

In *Information Sciences* (IF: 8.2).

* Tieyiing 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)*. **Oral**

* 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 38th Conference on Neural Information Processing Systems (NeurIPS'24)* (Under Review).

* Miao Qiao, Yunhan Yang, **Jiaxing Xu#**, 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#.

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**, 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**

**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
* 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