Peiyan, Zhang

CONTACT INFORMATION	Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong Tel: 852-52602547 E-mail: pzhangao@connect.ust.hk	Personal Web LinkedIn Google Scholar	
RESEARCH INTERESTS	 Large Language Models and Multi-Agent Systems Multimodal Understanding Trustworthy AI: Robustness, Interpretability, Privacy, and Fairness Deep Learning on Graphs 		
EDUCATION	 The Hong Kong University of Science and Technology, Hong Ph.D., Computer Science and Engineering Supervisor: Prof. Yangqiu Song Beijing Institute of Technology, China 	Kong	08/2020 - 07/2025 09/2016 - 07/2020
	Bachelor of Science, Computer Science, GPA: 3.94/4.0, Ranking	g: 1/193	007,2010 077,2020
INTERSHIP Experience	University of Illinois Urbana-Champaign, USA Research Collaboration with Prof. Haohan Wang Microsoft Software Technology Center Asia, Beijing		08/2022 - Present 05/2024 - 05/2025
	Research Intern Beijing Academy of Artificial Intelligence, Beijing Research Intern		06/2023 - 12/2023
	Microsoft Research Asia, Beijing Research Intern		03/2022 - 04/2023
HONORS AND AWARDS	Excellence in Review Award by Future Generation Computer Systems (FCCS)		2025 2024 2023 a (Top 2023
			2023
	HKUST RedBird PhD Scholarship		2020
	• Graduate Excellence Award of Beijing (top 1%)		2020
	• National Scholarship for 2018-2019 Academic Year (top 0.2%)		2019
	National Scholarship for 2017-2018 Academic Year (top 0.2%)		2018
	 National Scholarship for 2016-2017 Academic Year (top 0.2%) 		2017
	Honorable Mention in Mathematical Contest in Modeling/Interdiscip	on in Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling	
	 First-class Scholarship (for six semesters) First Prize of Dots and Boxes Project in the 13th China Computer Game Championship 		2019
			2019
	• Third Place in the Simulation Game of the Medium Size Group in 2018 China Robot Competition		mpetition 2018

PUBLICATION

GoogleScholar:

https://scholar.google.com/citations?hl=en&user=A1_FpIcAAAAJ&view_op=list_works

• Impact: 600+citations, h-index: 13

Selected Preprints

- "Reasoning Can Hurt the Inductive Abilities of Large Language Models" Haibo Jin, **Peiyan Zhang**, Man Luo, Haohan Wang. 2025.
- "From Hallucinations to Jailbreaks: Rethinking the Vulnerability of Large Foundation Models" Haibo Jin, Peiyan Zhang, Peiran Wang, Man Luo, Haohan Wang. 2025.
- "RAGify: Understanding Graph Neural Networks with Retrieval-Augmented Generation for Enhanced Representation Learning on Graphs"
 Peiyan Zhang, et, al. 2025.
- "GuardVal: Dynamic Large Language Model Jailbreak Evaluation for Comprehensive Safety Testing"
 Peiyan Zhang, Haibo Jin, Liying Kang, Haohan Wang, 2024
- "Guard: Role-playing to generate natural-language jailbreakings to test guideline adherence of large language models"

Haibo Jin, Ruoxi Chen, Peiyan Zhang, Andy Zhou, Yang Zhang, Haohan Wang. 2023.

Journal Papers

- * indicates equal contribution
- "Advancing Session-Based Recommendations with Atten-Mixer+: Dynamic and Adaptive Multi-Level Intent Mining"

Juyong Jiang*, **Peiyan Zhang***, Yingtao Luo, Chaozhuo Li, Jae Boum Kim, Kai Zhang, Senzhang Wang, Sunghun Kim, Philip S. Yu.

IEEE Transactions on Knowledge and Data Engineering (**TKDE**), 2025.

"Improving Sequential Recommendations via Bidirectional Temporal Data Augmentation With Pre-Training"
 Peiyan Zhang, Jiayan Guo, Chaozhuo Li, Liying Kang, Jaeboum Kim, Jie Xu, Xi Zhang, Yan Zhang, Haohan Wang, Sunghun Kim.

ACM Transactions on Intelligent Systems and Technology (TIST), 2024.

Conference Papers

- * indicates equal contribution
- "Revolve: Optimizing AI Systems by Tracking Response Evolution in Textual Optimization"
 Peiyan Zhang, Haibo Jin, Leyang Hu, Xinnuo Li, Liying Kang, Man Luo, Yangqiu Song, Haohan Wang.

International Conference on Machine Learning (ICML), 2025.

- "Foundation Model-oriented Robustness: Robust Image Model Evaluation with Pretrained Models"
 Peiyan Zhang, Haoyang Liu, Chaozhuo Li, Xing Xie, Sunghun Kim, Haohan Wang.
 International Conference on Learning Representations (ICLR), 2024.
- "GPT4Rec: Graph Prompt Tuning for Streaming Recommendation"

Peiyan Zhang, Yuchen Yan, Chaozhuo Li, Liying Kang, Xi Zhang, Feiran Huang, Senzhang Wang, Sunghun Kim.

International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2024. [Oral]

 "TransGNN: Harnessing the Collaborative Power of Transformer and Graph Neural Network for Recommender Systems"

Peiyan Zhang, Yuchen Yan, Chaozhuo Li, Xi Zhang, Senzhang Wang, Feiran Huang, Xing Xie, Sunghun Kim.

International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2024. [Oral]

• "High-Frequency-aware Hierarchical Contrastive Selective Coding for Representation Learning on Text Attributed Graphs"

Peiyan Zhang, Chaozhuo Li, Liying Kang, Feiran Huang, Senzhang Wang, Xing Xie, Sunghun Kim. *International World Wide Web Conference* (WWW), 2024. [Oral]

• "Inductive Graph Alignment Prompt: Bridging the Gap between Graph Pre-training and Inductive Fine-tuning From Spectral Perspective"

Yuchen Yan*, **Peiyan Zhang***, Zheng Fang, QingQing Long. *International World Wide Web Conference* (WWW), 2024. [Oral]

- "A Comprehensive Study on Text-attributed Graphs: Benchmarking and Rethinking"
 J Hao Yan, Chaozhuo Li, Ruosong Long, Chao Yan, Jianan Zhao, Wenwen Zhuang, Jun Yin, Peiyan Zhang,
 Weihao Han, Hao Sun, Weiwei Deng, Qi Zhang, Lichao Sun, Xing Xie, Senzhang Wang.
 Advance in Neural Information Processing Systems (NeurIPS), 2023.
- "AdaMCT: Adaptive Mixture of CNN-Transformer for Sequential Recommendation" Juyong Jiang*, **Peiyan Zhang***, Yingtao Luo, Chaozhuo Li, Jaeboum Kim, Kai Zhang, Senzhang Wang, Xing Xie and Sunghun Kim.
- International Conference on Information and Knowledge Management (CIKM), 2023. [Oral]
 "Continual Learning on Dynamic Graphs via Parameter Isolation"

Peiyan Zhang*, Yuchen Yan*, Chaozhuo Li, Senzhang Wang, Xing Xie, Guojie Song, Sunghun Kim. International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2023. [Oral]

"Efficiently Leveraging Multi-level User Intent for Session-based Recommendation via Atten Mixer Network"
 Peiyan Zhang*, Jiayan Guo*, Chaozhuo Li, Yueqi Xie, Jaeboum Kim, Yan Zhang, Xing Xie, Haohan Wang, Sunghun Kim.

International Conference on Web Search and Data Mining (WSDM), 2023.

[Best Paper Honorable Mention (Top 2%) & Oral]

"Evolutionary Preference Learning via Graph Nested GRU ODE for Session-based Recommendation" Jiayan Guo*, Peiyan Zhang*, Chaozhuo Li, Xing Xie, Yan Zhang, Sunghun Kim.
 International Conference on Information and Knowledge Management (CIKM), 2022. [Oral]

TEACHING EXPERIENCE

· Teaching Assistant

- COMP3111 Software Engineering at HKUST

Fall 2022

- COMP4901U Computer Language Processing at HKUST

Fall 2021

- COMP1021 Introduction to Computer Science at HKUST

Spring 2021

SERVICES

Program Committee Member

- WSDM 2025
- SIGIR 2025
- AAAI 2025
- WWW 2024 Data-centric Artificial Intelligence Workshop
- KDD 2024 Ethical Artificial Intelligence Workshop

Reviewer

- Conference: NeurIPS, ICLR, ICML, KDD, WWW, SIGIR, CVPR, ACL, EMNLP, AAAI, IJCAI, PAKDD, AISTAT
- Journal: IEEE Transactions on Neural Networks and Learning Systems, Neurocomputing, Neural Networks, Information Fusion, Neural Computing & Applications, Future Generation Computer Systems, Computers in Biology and Medicine