Zhuoning Guo 郭茁宁

Ph.D. Student | The Hong Kong University of Science and Technology (Guangzhou) | 2022-2026 (Expected)

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Date of Birth: April 17th, 2000 | Links: Personal Homepage; GitHub; Google Scholar

Research Interest: Information Retrieval, Multimodal Large Language Model, Graph Learning

EDUCATION

- **The Hong Kong University of Science and Technology (Guangzhou)**, China *(Ph.D.)*   2022.09-Now
    - ◼ Artificial Intelligence Thrust, Information Hub   *(Supervisors: Prof. Hao Liu & Prof. Qiang Yang)*
- **Harbin Institute of Technology**, Harbin, Heilongjiang, China *(B.E.)*   2018.08-2022.06
    - ◼ Software Engineering, Faculty of Computing   *GPA:3.6/4.0, rank7% (overall)*

INTERNSHIP

- **Alibaba Tongyi Lab (Research Intern)**   2025.03-Now
    - ● **Topics:** Post-training Qwen embedding for multimodal retrieval
- **Baidu Recommendation Architecture Department (Remote Research Intern)**   2024.05-2024.02
    - ● **Topics:** Information retrieval for industrial recommender system
- **Baidu Research & Talent Intelligence Center (Research Intern)**   2021.10-2022.08
    - ● **Topics:** Spatial-temporal modeling for business intelligence
- **Tencent AI Lab & HKUST (Remote Research Intern)**   2021.05-2021.10
    - ● **Topics:** Graph learning for social science
- **Microsoft Research Asia (MSRA), DKI Group (Research Intern)**   2020.11-2021.04
    - ● **Topics:** Computer vision and graphics for design intelligence

VISIT

- **The Hong Kong University of Science and Technology**, Hong Kong, China   2024.01-2024.08
    - ◼ Visiting Ph.D. student of Department of Computer Science and Engineering
- **University of Cambridge**, England   2020.01-2020.02
    - ● Visiting undergraduate of Fitz William College *(With scholarships from HIT)*

PUBLICATION

- **[SIGKDD 2025 (Under Review)]** **Zhuoning Guo**, et al. *"GPU-accelerated Multi-relational Parallel Graph Retrieval for Web-scale Recommendations."*
- **[SIGKDD 2025 (Under Review)]** **Zhuoning Guo**, et al. *"Against Multifaceted Graph Heterogeneity via Asymmetric Federated Prompt Learning."*
- **[SIGKDD 2024 (Oral)]** **Zhuoning Guo**, et al. *"HiFGL: A Hierarchical Framework for Cross-silo Cross-device Federated Graph Learning."*
- **[SIGKDD 2022 (Oral)]** **Zhuoning Guo**, et al. *"Talent Demand-Supply Joint Prediction with Dynamic Heterogeneous Graph Enhanced Meta-Learning."*
- **[PAKDD 2025 (Oral)]** **Zhuoning Guo**, et al. *"Labor Migration Modeling through Large-scale Job Query Data."*
- **[SIGKDD 2024 (Workshop)]** **Zhuoning Guo**, et al. *"Discrepant Homophily co-preserved Graph Convolutional Network for Labor Migration Forecasting."*
- **[Arxiv]** **Zhuoning Guo**, et al. *"Convergence-aware Clustered Federated Graph Learning Framework for Collaborative Inter-company Labor Market Forecasting."*

- **[AAAI 2024 (Oral)]** Wen Shuo Chao, Zhaopeng Qiu, Likang Wu, **Zhuoning Guo**, et al. *"A Cross-View Hierarchical Graph Learning Hypernetwork for Skill Demand-Supply Joint Prediction."*
- **[AAAI 2023]** Yang Liu, Yu Rong, **Zhuoning Guo**, et al. *"Human Mobility Modeling During the COVID-19 Pandemic via Deep Graph Diffusion Infomax."*
- **[TVCG]** Wenyuan Kong, Zhaoyun Jiang, Shizhao Sun, **Zhuoning Guo**, et al. *"Aesthetics++: Refining Graphic Designs by Exploring Design Principles and Human Preference."*

AWARD

-	**NOIP First Award (Twice, Top 20)** *(2018 HIT Independent Recruitment Admission)*	2013.11 & 2016.11
-	Mathematical Contest in Modeling (MCM) Finalist Top 1% *(International, Leader)*	2020.03
-	National IoT Competition Northeast Region Special Award Top 4 *(Leader)*	2020.08
-	Kaggle Competition: Machine Learning from Disaster 6%	2019.12-2020.01
-	Contemporary Undergraduate Mathematical Contest in Modeling First Award	2019.10

HONOR

-	President of HIT Chess Club	2019-2022
-	University Outstanding CLP Member	2019
-	University Outstanding Student Cadre	2020
-	Chairman of Massive Data Club	2020-2022
-	Captain of the Football Team of the Faculty of Computing	2020-2022

VOLUNTEER

-	**Volunteer of The Innovation & Entrepreneurship Education Alliance of China**	2019.10

- **Introduction:** Volunteer at the annual meeting of The Innovation and Entrepreneurship Education Alliance of China, undertaken by Harbin Institute of Technology.

-	**Teaching volunteer, Shangri-La, Yunnan, China**	2019.01-2019.02

- **Introduction:** Teaching students several subjects at a local suburban primary school.

SKILL

- English: IELTS 6.5(5.5) *(2021.08)*
- Programming Language: Python *(Recently)*, C/C++, Java, C#
- Frameworks: PyTorch(-Lightning), Transformers, Deepspeed, Pandas, DGL, PyG, NetworkX, …