

TIANYU ZHANG

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EDUCATION

Tsinghua University, Beijing Master of Engineering, Department of Automation	<i>2021.9 - 2024.6</i> GPA: 3.72/4.0
The University of Hong Kong, Hong Kong Exchange Student, Department of Electrical Engineering	<i>2018.9 - 2018.12</i> GPA: 3.97/4.3
Tsinghua University, Beijing Bachelor of Economics (The Second Major), School of Economics and Management	<i>2017.9 - 2021.6</i> GPA: 3.68/4.0
Tsinghua University, Beijing Bachelor of Engineering, Department of Automation	<i>2016.9 - 2021.6</i> GPA: 3.65/4.0

RESEARCH INTERESTS

Graph Neural Networks, LLM-enhanced Graph Machine Learning, AI for Science, LLM Inference Acceleration

PUBLICATIONS

Label Informed Contrastive Pre-training for Node Importance Estimation on Knowledge Graphs
Tianyu Zhang, Chengbin Hou, Rui Jiang, Xuegong Zhang, Chenghu Zhou, Ke Tang and Hairong Lv
IEEE Transactions on Neural Networks and Learning Systems (TNNLS, IF=10.4)

CGCL: Collaborative Graph Contrastive Learning without Handcrafted Graph Data Augmentations
Tianyu Zhang*, Yuxiang Ren*, Wenzheng Feng, Weitao Du, Xuecang Zhang (*equal contribution)
International Conference on Database Systems for Advanced Applications (DASFAA 2024)

Molecular Graph Representation Learning Integrating Large Language Models with Domain-specific Small Models
Tianyu Zhang*, Yuxiang Ren*, Chengbin Hou, Hairong Lv, Xuegong Zhang
IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2024)

PREPRINTS

Node Importance Estimation Leveraging LLMs for Semantic Augmentation in Knowledge Graphs
Xinyu Lin*, **Tianyu Zhang***, Chengbin Hou, Jianye Xue, Jinbao Wang, Hairong Lv (*equal contribution)
ArXiv (Under review as a conference paper at ICDE 2025)

Parse Trees Guided LLM Prompt Compression
Wenhao Mao, Chengbin Hou, **Tianyu Zhang**, Xinyu Lin, Ke Tang, Hairong Lv
ArXiv (Under review as a journal paper at TPAMI)

TECHNICAL SKILLS

Programming Languages	Python, C#, R, Matlab, \LaTeX
Python Tools	PyTorch, DGL, PyG, Megatron, Huggingface
English Skills	TOEFL 101, GRE 323