

Tianle Wang (Louis)

Updated July 26, 2024

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Citizenship: China

Research interests

Data Mining, Recommender System, Graph Learning

Education

The University of Hong Kong

Hong Kong, China

MPhil in the Department of Computer Science

Sep. 2022 - present

Data Intelligence Lab@HKU

Mentors: Dr. Chao Huang.

Beijing University of Posts and Telecommunications

Beijing, China

B.Eng. in Computer Science

Sep. 2018 – Jul. 2022

Ye Peida Elite Students' Class

School of Computer Science | Major: Network Engineering

GPA: **90.05/100** Rank:1/69

University of Cambridge

Cambridge, UK

Research Assistant

Jan 2021 – Mar. 2021

Online Research Internship Programme in Artificial Intelligence

Mentors: Prof. Pietro Lio'. *Grade: A (Excellent)*

North Carolina State University

Raleigh, US

Research Assistant

Jan 2021 – Feb. 2021

GEARS 2021 Winter Online Program

Mentors: Prof. Edward F. Gehringer.

Publications

Denoised Self-Augmented Learning for Social Recommendation

Tianle Wang, Lianghao Xia, Chao Huang*.

International Joint Conference on Artificial Intelligence (IJCAI), 2023.

SSLRec: A Self-Supervised Learning Library for Recommendation

Xubin Ren, Lianghao Xia, Yuhao Yang, Wei Wei, **Tianle Wang**, Xuheng Cai, Chao Huang*.

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

Modeling review helpfulness with augmented transformer neural networks

YunKai Xiao†, **Tianle Wang**†, Edward F. Gehringer*.

IEEE International Conference on Semantic Computing (ICSC), 2022.

Attention-enhanced Graph Cross-convolution for Protein-Ligand Binding Affinity Prediction

Xianbing Feng[†], Jingwei Qu[†], **Tianle Wang**, Xiaoqing Lyu^{*}.

IEEE International Conference on Bioinformatics and Biomedicine (BIBM), 2021.

Relation-Aware Keypoint Matching with Space-Spanned Feature

J. Qu, H. Ling, X. Lyu^{*}, **Tianle Wang**.

IEEE Transactions on Multimedia (TMM), Under Review.

Semantic Alignment Learning Based on Triple Sampling Method

Jingwei Qu, Xiaoqing Lyu, **Tianle Wang**.

Patent for Invention (Patent Application Number: 202110516741.5), Under Review.

Research experience

Wangxuan Institute of Computer Technology (WICT), Peking University | Academic Supervisor: **Assoc. Prof. Xiaoqing Lyu**

Hyper-edge Based Neural Network for Drug-Target-Disease Interaction Prediction May 2021 – Jul. 2021

Attention-enhanced Graph Cross-convolution for Protein-Ligand Binding Affinity Prediction May 2021 – Aug. 2021

Relation-Aware Keypoint Matching with Space-Spanned Feature Sep. 2020 – Nov. 2020

Semantic Alignment Learning Based on Triple Sampling Method Sep. 2020 – Dec. 2020

North Carolina State University | Academic Supervisor: **Prof. Edward F. Gehringer**

Effective Active Learning in Students' Educational Annotation Jan. 2021 – Jun. 2021

Modeling Review Helpfulness with Augmented Transformer Neural Networks Jan. 2021 – Sep. 2021

Tsinghua University | Academic Supervisor: **Prof. Jie Tang**

Research and Development for the Expert Recommendation Algorithm Apr. 2021 – May 2021

Graph Data Mining and Machine Learning Lab (GAMMA Lab), BUPT | Academic Supervisor: **Prof. Chuan Shi**

Generative Explanations for Graph Neural Networks Jul. 2021 – Oct. 2021

University of Cambridge | Academic Supervisor: **Prof. Pietro Lio**

Semi-supervised Learning for Graph Matching Apr. 2021 – Sep. 2021

School of Ye Peida, BUPT | Mentor: **Prof. Duanling Li**

	Design of the Intelligent Six-Foot Paratrooper Robot	Jun. 2020 – May 2021
	School of Science, BUPT Mentor: Prof. Sihai Wang	
	Intelligent Code	Jun. 2020 – May 2021
	School of Computer Science, BUPT Mentor: Prof. Ke Xu	
	A Characterized Food Recommendation Application (Code)	Oct. 2019 – Apr. 2020
Industry experience	Beijing Knowledge Atlas Technology Co., Ltd	Beijing, China
	Algorithm Engineer	Apr. 2021 – May 2021
	Finetuned the OAG-BERT and completed the ablation experiments on text information of title/abstract.	
	Designed the two-tower model to compute the similarity between the Expert and the Paper.	
Skills	Programming	
	Familiar with: PyTorch, TensorFlow, Python, \LaTeX , Linux, MATLAB, C/C++, Java.	
	Languages	
	Chinese (native), English(fluent)	
	IELTS: 7.0 (L 7.5; R 7.5; W 6.5; S 5.5); Duolingo English Test: 105	
Professional memberships	China Computer Federation.	Jan. 2021 – Jan. 2022
	CCF membership	
Honors and scholarships	Beijing outstanding graduates	2022
	“Intelligent Base” Pioneer Youth Award, School-level scholarship (BUPT)	2021
	Excellent Innovative Achievement Award of Ye Peida Elite Students’ Class in Innovation and Entrepreneurship (BUPT)	2021
	2nd Class of School’s Scholarship (BUPT)	2021 & 2019
	Merit Student (BUPT)	2021 & 2020
	1st Prize of the College Students’ Innovative Entrepreneurial Training Plan Program (BUPT)	2021
	1st Prize of the “Challenge Cup” Capital Undergraduate Curricular Academic Science and Technology Works by Race (Beijing)	2021
	2020 Exemplary Vanguard- Science and Innovation Vanguard Award (BUPT)	2020
	Huawei Scholarship (selected from the School’s 1st-class Scholarship winners) (BUPT)	2020
	2nd Prize of the 10th Beijing College Mechanical Innovation Competition (Beijing)	2020

3rd Prize of the 5th China College Students' 'Internet Plus' Innovation and Entrepreneurship Competition (Beijing)	2020
1st Prize of the College Students' Chuyan Program (BUPT)	2020
2nd Prize of the E-Commerce Competition (BUPT)	2020

Other interests

Basketball, fitness, music, movie, etc.