

Tianle Wang (Louis)

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GitHub: [Link](#)

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Citizenship: China

Research interests

Recommendation, Data Mining, Graph Neural Networks(GNNs)

Education

The University of Hong Kong

Hong Kong, China

MPhil in 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, Chao Huang*, Lianghao Xia.

International Joint Conference on Artificial Intelligence (IJCAI), 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.