

Tianle Wang (Louis)

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GitHub: [Link](#)

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Citizenship: China

Research interests

Data Mining, Graph Neural Networks(GNNs), Recommendation

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

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	<p>Programming</p> <p>Familiar with: PyTorch, TensorFlow, Python, \LaTeX, Linux, MATLAB, C/C++, Java.</p> <p>Languages</p> <p>Chinese (native), English(fluent)</p> <p>IELTS: 7.0 (L 7.5; R 7.5; W 6.5; S 5.5); Duolingo English Test: 105</p>	
Professional memberships	<p>China Computer Federation.</p> <p>CCF membership</p>	Jan. 2021 – Jan. 2022
Honors and scholarships	<p>Beijing outstanding graduates</p> <p>“Intelligent Base” Pioneer Youth Award, School-level scholarship (BUPT)</p> <p>Excellent Innovative Achievement Award of Ye Peida Elite Students’ Class in Innovation and Entrepreneurship (BUPT)</p> <p>2nd Class of School’s Scholarship (BUPT)</p> <p>Merit Student (BUPT)</p> <p>1st Prize of the College Students’ Innovative Entrepreneurial Training Plan Program (BUPT)</p> <p>1st Prize of the “Challenge Cup” Capital Undergraduate Curricular Academic Science and Technology Works by Race (Beijing)</p> <p>2020 Exemplary Vanguard- Science and Innovation Vanguard Award (BUPT)</p> <p>Huawei Scholarship (selected from the School’s 1st-class Scholarship winners) (BUPT)</p> <p>2nd Prize of the 10th Beijing College Mechanical Innovation Competition (Beijing)</p> <p>3rd Prize of the 5th China College Students’ ‘Internet Plus’ Innovation and Entrepreneurship Competition (Beijing)</p> <p>1st Prize of the College Students’ Chuyan Program (BUPT)</p> <p>2nd Prize of the E-Commerce Competition (BUPT)</p>	<p>2022</p> <p>2021</p> <p>2021</p> <p>2021 & 2019</p> <p>2021 & 2020</p> <p>2021</p> <p>2021</p> <p>2020</p> <p>2020</p> <p>2020</p> <p>2020</p> <p>2020</p> <p>2020</p>
Other interests	Basketball, fitness, music, movie, etc.	