

# Tianle Wang (Louis)

Updated November 25, 2023

**Email:** louiswong.cs@connect.hku.hk

**Phone:** (+86) 18991876691

**GitHub:** [Link](#)

**Google Scholar:** [Link](#)

**Website:** [Link](#)

**Citizenship:** China

## Research interests

Data Mining, Graph Neural Networks(GNNs)

## Education

### The University of Hong Kong

MPhil in the Department of Computer Science

Data Intelligence Lab@HKU

Mentors: Dr. Chao Huang.

Hong Kong, China

Sep. 2022 - present

### Beijing University of Posts and Telecommunications

B.Eng. in Computer Science

Ye Peida Elite Students' Class

School of Computer Science — Major: Network Engineering

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

Beijing, China

Sep. 2018 – Jul. 2022

### University of Cambridge

Research Assistant

Online Research Internship Programme in Artificial Intelligence

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

Cambridge, UK

Jan 2021 – Mar. 2021

### North Carolina State University

Research Assistant

GEARS 2021 Winter Online Program

Mentors: Prof. Edward F. Gehringer.

Raleigh, US

Jan 2021 – Feb. 2021

## 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<sup>†</sup>, Jingwei Qu<sup>†</sup>, **Tianle Wang**, Xiaoqing Lyu<sup>\*</sup>.

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

**Relation-Aware Keypoint Matching with Space-Spanned Feature**

J. Qu, H. Ling, X. Lyu<sup>\*</sup>, **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
	<b>School of Science, BUPT – Mentor: Prof. Sihai Wang</b>	
	Intelligent Code	Jun. 2020 – May 2021
	<b>School of Computer Science, BUPT – Mentor: Prof. Ke Xu</b>	
	A Characterized Food Recommendation Application ( <a href="#">Code</a> )	Oct. 2019 – Apr. 2020
Industry experience	<b>Beijing Knowledge Atlas Technology Co., Ltd</b>	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	<b>Programming</b>	
	Familiar with: PyTorch, TensorFlow, Python, $\text{\LaTeX}$ , Linux, MATLAB, C/C++, Java.	
	<b>Languages</b>	
	Chinese (native), English(fluent)	
	IELTS: <b>7.0</b> (L 7.5; R 7.5; W 6.5; S 5.5); Duolingo English Test: <b>105</b>	
Professional memberships	<b>China Computer Federation.</b>	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.