

# Tianle Wang (Louis)

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

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

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

**Citizenship:** China

## Research interests

Data Mining, Recommender Systems, Large Language Models

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

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

**Semantic Alignment Learning Based on Triple Sampling Method**

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

*Patent for Invention (Patent Application Number: 202110516741.5).*

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, Python, Linux, C/C++,  $\LaTeX$ .

**Languages**

Chinese (native), English(fluent)

IELTS: **7.0** (L 7.5; R 7.5; W 6.5; S 5.5); Duolingo English Test: **105**

**Honors and  
scholarships**

Beijing outstanding graduates

2022

“Intelligent Base” Pioneer Youth Award, School-level scholarship (BUPT)

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.