

# Tianle Wang (Louis)

Updated November 25, 2023

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**Citizenship:** China

**Research interests** Data Mining, Recommender System, Graph Learning

## Education

**The University of Hong Kong** Hong Kong, China  
PhD 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<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

**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.