Tianle Wang (Louis)

Email: louiswong.cs@connect.hku.hk **GitHub**: Link **Website**: Link

Phone: (+86) 18991876691 **Google Scholar**: Link **Citizenship**: China

Research interests   Data Mining, Graph Neural Networks(GNNs)

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, Under Review.

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-Feet 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.