

HAOTIAN LI

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EDUCATION

The Hong Kong University of Science and Technology, Hong Kong, China <i>Ph.D in Computer Science and Engineering, supervised by Prof. Huamin Qu</i>	08/2020-Present
The Hong Kong University of Science and Technology, Hong Kong, China <i>B.Eng (First Class Honors) in Computer Engineering</i> <i>Minor in Business & Big Data Technology</i>	09/2015-05/2019 GPA: 3.737/4.300 (Top 10%)
Peking University, Beijing, China	07/2017
The University of British Columbia, Vancouver, Canada	01/2018-04/2018

RESEARCH AND PROJECT EXPERIENCE

Advanced Quantitative Trading System with Text Mining in Final Year Project	06/2018-05/2019
<ul style="list-style-type: none">Built models for training agents to perform automatic quantitative stock trading with news and price dataImplemented Deep Recurrent Q-Network with Text Mining model with TensorFlowAchieved satisfactory performance on cumulative profits and was highly appreciated by the supervisorSupervised by Prof. Dik-Lun LEE, Department of Computer Science and Engineering, HKUST	
Advanced Indoor Localization System with iBeacons for MTR	06/2018-01/2019
<ul style="list-style-type: none">Developed Android application used for collecting and processing dataFocused on data structure, data processing and several different localization algorithms on mobile platformsSupervised by Prof. Shueng-Han Gary CHAN, Department of Computer Science and Engineering, HKUST	
“PreserVis” of IEEE VAST Challenge 2017	05/2017-07/2017
<ul style="list-style-type: none">Developed a data visualization system for various types of dataAchieved Multi-Challenge Award for Compelling Synthesis of InformationPresented poster and gave a presentation on VAST Challenge 2017 Workshop, IEEE VIS 2017Supervised by Prof. Huamin QU, Department of Computer Science and Engineering, HKUST	

COMPETITION EXPERIENCE

Prediction of users’ purchase dates of China Big Data Algorithm Competition	06/2018
<ul style="list-style-type: none">Predicted users’ possibility and dates of purchase by actions and information of usersFinal result: Stage A: 33/739(Total teams), Stage B: 17/137(Total teams)Main libraries used: Numpy, Pandas, Scikit-learn, LightGBM, XGBoost	

WORKING AND INTERNSHIP EXPERIENCE

Research Assistant at VisLab HKUST, Hong Kong	08/2019-08/2020
<ul style="list-style-type: none">Research on advanced algorithm (e.g., GNN) in analysis of students’ performance on E-Learning platformsMain libraries used: Scikit-learn, DGL, PyTorch, Matplotlib, Numpy	
Application Developer at Wealth Management Cube Limited, Hong Kong	06/2019-08/2019
<ul style="list-style-type: none">Designed and developed internal production system with MongoDB, React.js and Spring BootDeveloped web-based platform offered to the wealth management industry with Spring and JSP	
Data Analyst at China Unicom Network Technology Research Institute, Beijing, China	05/2018-06/2018
<ul style="list-style-type: none">Applied advanced algorithms to find features for analyzing big data in telecom industryUsed distributed systems (e.g. Hadoop) for data storage	

PUBLICATIONS

- Haotian Li**, Huan Wei, Yong Wang, Yangqiu Song and Huamin Qu. Peer-inspired Student Performance Prediction in Interactive Online Question Pools with Graph Neural Network. To appear in the 29th ACM International Conference on Information and Knowledge Management (CIKM20).
- Zezheng Feng, **Haotian Li**, Wei Zeng, Shuang-Hua Yang and Huamin Qu. Topology Density Map for Urban Data Visualization and Analysis. To appear in IEEE Transactions on Visualization and Computer Graphics (VAST20).
- Huan Wei, **Haotian Li**, Meng Xia, Yong Wang and Huamin Qu. Predicting Student Performance in Interactive Online Question Pools Using Mouse Interaction Features. In the 10th International Learning Analytics & Knowledge Conference (LAK20).
- Ka Wing Tsang, **Haotian Li**, Fuk Ming Lam, Yifan Mu, Yong Wang, Huamin Qu. TradAO: A Visual Analytics System for Trading Algorithm Optimization. To appear in 2020 IEEE Conference on Visual Analytics Science and Technology (VAST20).

- Qiao Gu, Hang Yin, Lian Chen, **Haotian Li**, Chengzhong Liu, Xuanwu Yue and Huamin Qu. PreserVis, a Visual Analytic System for Traffic and Pollution Patterns - Multi-Challenge Award for Compelling Synthesis of Information. In 2017 IEEE Conference on Visual Analytics Science and Technology (VAST17).

VOLUNTEER & EXTRACURRICULAR EXPERIENCE

General Secretary at **Film Society, HKUSTSU, Hong Kong**

03/2016-03/2017

- Assisted the work of President and organized functions for more than 1000 members
- Improved time planning and communication skills with team members and officers

Team Guide at **57th International Mathematic Olympiad, Hong Kong**

07/2016

- Helped Organising Committee hold activities including exploring Hong Kong and closing ceremony
- Guided the Brazilian team and helped with daily affairs

TECHNICAL SKILLS

- **Programming Language:** Python (Pandas, Sci-kit Learn, NumPy, PyTorch), JavaScript (React.js, D3.js, SheetJS, Tabulator, jQuery, Node.js), Java (Android, Spring, Spring Boot), Spark, MATLAB, R, SQL
- **Other Software:** Tableau, Microsoft Office

AWARDS & SCHOLARSHIPS

- *Student Travel Grant, ACM SIGIR*, 2020
- *Young Talent Award, BOCHK Hackathon*, 2019
- *Dean's List* from **HKUST**, Fall, Spring, 2015-2016, Fall, Spring 2018-2019
- *University's Scholarship Scheme for Continuing Undergraduate Students* from **HKUST**, 2017, 2018, 2019
- *Overseas Learning Experience Scholarship* from **School of Engineering, HKUST**, 2018
- *Students' Academic Excellence* from **HKUST**, 2017
- *Multi-Challenge Award, IEEE VAST Challenge* from **VAST Challenge Committee**, 2017
- *University Scholarship* from **HKUST**, 2015
- *2nd Award in National Physics Olympics*, 2014