# Weiwen LIU

(852) 56486571
☎ (86) 14715022731
✉ wwliu@cse.cuhk.edu.hk
https://liuweiwen1995.github.io/

## Education

2016–Present **PhD, Computer Science**, *The Chinese University of Hong Kong*, Hong Kong.
Supervised by Prof. Shengyu Zhang.
Research interests include machine learning algorithms and recommender systems

2013–2016 **BS, Computer Science**, *South China University of Technology*, Guangzhou.
GPA – 3.87/4.00 (rank 3rd in All-English-Teaching Union Class)

## Publications

**Weiwen Liu**, Ruiming Tang, Jiajin Li, Jinkai Yu, Huifeng Guo, Xiuqiang He, and Shengyu Zhang, *Field-aware Probabilistic Embedding Neural Network for CTR Prediction*, Proceedings of the 12th ACM Conference on Recommender Systems (pp. 412-416). ACM.

**Weiwen Liu**, and Robin Burke, *Personalizing Fairness-aware Re-ranking*, 2nd FATREC Workshop on Responsible Recommendation.

**Weiwen Liu**, Shuai Li, and Shengyu Zhang, *Contextual Dependent Click Bandit Algorithm for Web Recommendation*, International Computing and Combinatorics Conference, Springer, Cham, 2018.

Patrick P. K. Chan, **Weiwen Liu**, Danni Chen, Daniel S. Yeung, Fei Zhang, Xizhao Wang, and Chien-Chang Hsu, *Face liveness detection using a flash against 2D spoofing attack*, IEEE Transactions on Information Forensics and Security 13, no. 2 (2018): 521-534.

## Projects

2016–2018 **Personalized Recommendation for Huawei App Store**

Huawei Noah's Ark Lab

Investigating the Huawei App Store data set. Designing and evaluating CTR prediction algorithms for Huawei App Store. Avoiding the overfitting problem in recommendation algorithms. Algorithms are implemented in Tensorflow.

5/18–8/18 **Fairness in Multi-stakeholder Recommender Systems**

Prof. Robin Burke, School of Computing, DePaul University

Discussing the fairness issue in Multi-stakeholder Recommender Systems. Designing re-ranking algorithms to balance between recommendation accuracy and fairness. Algorithms are implemented on the basis of LibRec (a Java library).

12/18–2/19 **Fairness-aware Recommendation with Reinforcement Learning**

Tencent Quantum Lab, Huawei Noah's Ark Lab

Designing a reinforcement learning framework to learn dynamic interactions and at the same time to maintain a long-term fair and effective recommendation. Algorithms are implemented in Tensorflow.

## Conferences, Workshops and Summer Schools Attended

RecSys, 2018 (Poster and Workshop (Oral))

NIPS, 2017

International Summer School on Deep Learning, 2017

ICMLC & ICWAPR 2013-2016 (Oral)

## Professional Services

Sub-reviewer for IJCAI 2018

Reviewer for TKDE

## Awards

2015 Top 10 Outstanding Students at SCUT (*rank 1st*, highest award for students at SCUT)

2014 National Scholarship (highest national-wide scholarship)

## Programming Skills

Python, C++, Java, MySQL, MatLab