# Weiwen LIU

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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 App Store**

Investigating an App Store data set. Designing and evaluating CTR prediction algorithms for App recommendation. Avoiding the overfitting problem in existing 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**

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)

## Awards

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

2015 Huawei Scholarship (one of the 12 winners at SCUT)

2014 National Scholarship (highest national-wide scholarship)

## Programming Skills

Python, C++, Java, MySQL, MatLab