Zifeng Wang 王子丰

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EDUCATION BACKGROUND

Tsinghua University Shenzhen, China

M.S., Data Science, Tsinghua-Berkeley Shenzhen Institute (TBSI)

Major course: Machine learning, Computer vision, Information theory; TA: Machine learning, 19 Fall [code]

Co-advised by: Prof. Shao-Lun Huang, TBSI and Prof. Khalid M. Mosalam, UC-Berkeley

Tongji University

B.Eng., Structural Engineering, School of Civil Engineering

GPA: 4.4/5.0 (19/168); Advised by: Prof. Suzhen Li

Shanghai, China

Sept. 2018-Present

Sept. 2014-Jun. 2018

PAPERS

• **Zifeng Wang**, Xi Chen, Rui Wen and Shao-Lun Huang. *On the Fairness of Randomized Trials for Recommendation with* Heterogeneous Demographics and Beyond. **In progress**. [pdf]

- Zifeng Wang, Hong Zhu, Zhenhua Dong, Xiuqiang He and Shao-Lun Huang. Less Is Better: Unweighted Data Subsampling via Influence Function. AAAI 2020. [pdf][code]
- Zifeng Wang, Yuyang Zhang, Khalid M. Mosalam, Yuqing Gao and Shao-Lun Huang. Deep Fusion Network with RGB-Depth Image for Pixel-level Semantic Segmentation on Construction Sites. Automation in Construction. (under review)
- Zifeng Wang and Suzhen Li. Data-driven Risk Assessment on Urban Pipeline Network Based on a Cluster Model. Reliability Engineering and System Safety.

INDUSTRY EXPERIENCE

Jarvis Lab, Tencent Shenzhen, China

Research intern in Machine learning

- Research in using heterogeneous GNN for disease diagnosis.
- Research in missing-not-at-random data and unfairness of recommender system.
- Research in distant supervision with influence subsampling.

Noah's Ark Lab, Huawei

Research intern in Recommender system

Shenzhen, China

Dec. 2019-Present

Apr. 2019-Oct. 2019

- Join in counterfactual learning for improving ad-click rates by exploiting non-displayed events, and publish in CIKM 2019.
- Join in one class field-aware factorization machine for queries recommendation with implicit feedback, submit to JMLR.
- Lead research in guiding data subsampling for better model with less data, based on influence function and robust supervised learning theory, which is applicable for highly sparse data (> 10M dims), publish in AAAI 2020 (ML track, score 8,7,6; accept rate: 18%).

PROJECTS

Smart Robot Development [code]

Shenzhen, China

Work with Prof. Shao-Lun Huang and Prof. Lin Zhang, in TBSI Lab 2C

Feb. 2019- Aug. 2019

- Develop face recognition module on MTCNN and pretrained InceptionV1 for 1:N face verification.
- Develop indoor object detection module based on YOLO-V3, and object tracking module on Siamese FCN.

AWARDS & ACHIEVEMENTS

• Best Student Research Runner-up, in 2019 TBSI workshop in Data Science Dec. 2019

• Outstanding graduate student (4/40), graduate thesis (3/168) of Tongji University

Jun. 2018

• Merit student scholarship of Tongji University

2015/2016/2017

• Kaggle: KKBox Music Recommendation Challenge (151/1081,15%)

Dec. 2017

• Meritorious winner (1st class prize, $\approx 7\%$) in USA Mathematical Contest in Modeling

Apr. 2017

SKILLS & CERTIFICATION

- English: CET-6 (615), IELTS (7.0)
- IT: Linux, Python, C and Python packages including Pytorch, Tensorflow, Numpy, Scipy, pandas, Sklearn, keras, etc.