

EDUCATION BACKGROUND

Tsinghua University

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

Major course: Machine learning, Computer vision, Information theory

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

Shenzhen, China

Sept. 2018-Present

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. 2014-Jun. 2018

PAPERS

- **Zifeng Wang**, Xi Chen, Rui Wen, Shao-Lun Huang and Ercan E. Kuruoglu. *Information Theoretic Counterfactual Learning from Missing Not At Random Feedback*. **In progress**.
- **Zifeng Wang**, Xi Chen, Rui Wen and Shao-Lun Huang. *Finding Influential Instances for Distantly Supervised Relation Extraction*. **In progress**.
- **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

Research intern in Machine learning and NLP

Shenzhen, China

Dec. 2019-Present

- Research about counterfactual learning from missing-not-at-random data for recommender system, based on information bottleneck theory.
- Research in instances selection in distant supervision via an influence subsampling paradigm.
- Research in heterogeneous GCN for automatic disease diagnosis.

Noah's Ark Lab, Huawei

Research intern in Recommender system

Shenzhen, China

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%).

TEACHING

- TA for Bayesian Learning and Data Analysis in TBSI, given by Ercan E. Kuruoglu
- TA for Machine Learning in TBSI, given by Shao-Lun Huang and Yang Li

Spring, 2020

Fall, 2019

PROJECTS

Smart Robot Development [[code](#)]

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

Shenzhen, China

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 & OTHERS

- Reviewer for 23rd IEEE International Conference on Intelligent Transportation Systems (ITSC) Apr. 2020
- 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: KKBBox 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.