

Zifeng Wang

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EDUCATION BACKGROUND

University of Illinois, Urbana-Champaign

PhD student, Computer Science, [The Grainger College of Engineering](#)

Research Interest: AI for Healthcare; Advised by: [Prof. Jimeng Sun](#)

Illinois, US

Sept. 2021-Present

Tsinghua University

MS, Data Science, [Tsinghua-Berkeley Shenzhen Institute \(TBSI\)](#)

Thesis: [Information Bottleneck for Representation Learning: New Vision](#)

Co-advised by: [Prof. Shao-Lun Huang](#), TBSI and [Prof. Khalid M. Mosalam](#), UC-Berkeley

Shenzhen, China

Sept. 2018-Jun. 2021

Tongji University

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

Advised by: [Prof. Suzhen Li](#)

Shanghai, China

Sept. 2014-Jun. 2018

PAPERS

◇ Preprints:

- **Z Wang**, S Biswal, and J Sun. Save My Trial: Counterfactual Explanations for Clinical Trial Outcome Prediction.
- **Z Wang** and J Sun. [PromptEHR: Prompt-based Language Models for Multi-modal Electronic Healthcare Records Generation](#).
- **Z Wang** and J Sun. [Trial2Vec: Clinical Trial Similarity Search using Self-Supervised Siamese BERT model](#).
- **Z Wang** and J Sun. [SurvTRACE: Transformers for Survival Analysis with Competing Events](#).
- **Z Wang**, R Wen, X Chen, S-L Huang, N Zhang, and Y Zheng. [Finding Influential Instances for Distantly Supervised Relation Extraction](#).

◇ Conferences:

- **Z Wang**, S-L Huang, E. E. Kuruoglu, J Sun, X Chen, and Y Zheng. [PAC-Bayes Information Bottleneck](#). **ICLR'22 (Spotlight, 176/3391)**.
- **Z Wang**, Y Yang, R Wen, X Chen, S-L Huang, and Y Zheng. [Lifelong Learning Disease Diagnosis on Clinical Notes](#). **PAKDD'21 (Best Student Paper, 1/768)**. [\[video\]](#)
- **Z Wang**, R Wen, X Chen, S Cao, S-L Huang, B Qian, and Y Zheng. [Online Disease Self-diagnosis with Inductive Heterogeneous Graph Convolutional Networks](#). **WWW'21**. [\[video\]](#)
- **Z Wang**, X Chen, R Wen, S-L Huang, E. E. Kuruoglu, and Y Zheng. [Information Theoretic Counterfactual Learning from Missing-Not-At-Random Feedback](#). **NeurIPS'20**. [\[poster\]](#)
- **Z Wang**, H Zhu, Z Dong, X He, and S-L Huang. [Less Is Better: Unweighted Data Subsampling via Influence Function](#). **AAAI'20**. [\[poster\]](#)

◇ Journals:

- **Z Wang**, Y Zhang, K. M. Mosalam, Y Gao, and S-L Huang. [Deep Semantic Segmentation for Visual Understanding on Construction Sites](#). **Computer-Aided Civil And Infrastructure Engineering**, 2021.
- **Z Wang** and S Li. [Data-driven Risk Assessment on Urban Pipeline Network Based on a Cluster Model](#). **Reliability Engineering and System Safety**, 2020, 196: 106781.

PROFESSIONAL EXPERIENCE

Tencent Jarvis Lab, Research Intern

Topics: Information-theoretic DL; Lifelong Learning Diagnostic AI; Graph DL for Clinical Diagnosis

Supervisor: Yefeng Zheng

Dec. 2019-Jun. 2021

Noah's Ark Lab, Research Intern

Topics: Learning from Noisy Data; Unbiased Recommendation;

Supervisors: Zhenhua Dong, Xiuqiang He

Apr. 2019-Oct. 2019

PROFESSIONAL SERVICE

- PC Member for AAAI'22, IJCAI'22

- Reviewer for ICIP'21, ICASSP'21

TEACHING

- TA, [CS 598 Deep Learning for Healthcare](#), Prof. Jimeng Sun *Spring, 2022*
- TA, [Optimization Models and Applications](#), Prof. Laurent El Ghaoui *Summer, 2020*
- TA, [Bayesian Learning and Data Analysis](#), Prof. Ercan E. Kuruoglu *Spring, 2020*
- TA, [Learning from Data](#), Prof. Shao-Lun Huang and Prof. Yang Li *Fall, 2019*

AWARDS

- [Yunni & Maxine Pao Memorial Fellowship](#) *Feb 2022*
- Outstanding graduate student of Tsinghua University (2/168) *June 2021*
- Best Student Research Runner-up of 13rd PhD Student Symposium of Guangdong-HK-Macau Bay Area *June 2021*
- Best Student Paper Award of PAKDD'21 (1/768) *May 2021*
- National Graduate Student Scholarship at Tsinghua University (3/229) *Oct. 2020*
- Best Student Research Runner-up of 1st TBSI Workshop On 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*
- Meritorious winner (1st class prize, $\approx 7\%$) in USA Mathematical Contest in Modeling *Apr. 2017*

SKILLS & CERTIFICATION

- English: TOEFL (105), IELTS (7.0), CET-6 (615),
- IT: Linux, Python, C++ and Python packages including Pytorch, Tensorflow, Numpy, Scipy, Pandas, Sklearn, etc.
- Hobbies: Bamboo flute, Hulusi.

(Updated on February 24, 2022.)