Zifeng Wang

⌂ Home Page | 🎓 Google Scholar | GitHub | ✉ zifengw2@illinois.edu

EDUCATION BACKGROUND

University of Illinois, Urbana-Champaign **Illinois, US**
 PhD student, Computer Science, The Grainger College of Engineering Sept. 2021-Present
Research Interest: AI for Healthcare; Advised by: Prof. Jimeng Sun

Tsinghua University **Shenzhen, China**
 MS, Data Science, Tsinghua-Berkeley Shenzhen Institute (TBSI) Sept. 2018-Jun. 2021
Thesis: Information Bottleneck for Representation Learning: New Vision
Co-advised by: Prof. Shao-Lun Huang, TBSI and Prof. Khalid M. Mosalam, UC-Berkeley

Tongji University **Shanghai, China**
 B.Eng., Structural Engineering, School of Civil Engineering Sept. 2014-Jun. 2018
Advised by: Prof. Suzhen Li

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 Dec. 2019-Jun. 2021
Topics: Information-theoretic DL; Lifelong Learning Diagnostic AI; Graph DL for Clinical Diagnosis
Supervisor: Yefeng Zheng

Noah's Ark Lab, Research Intern Apr. 2019-Oct. 2019
Topics: Learning from Noisy Data; Unbiased Recommendation;
Supervisors: Zhenhua Dong, Xiuqiang He

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

- 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.