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RESEARCH INTEREST

My research focuses on analyzing noisy data using techniques such as weak supervision and adversarial training. I am interested in natural language processing and point process.

EDUCATION

2019 - present	Georgia Institute of Technology Ph.D. in Machine Learning
2015 - 2019	The University of Texas at Austin
	B.S. in Computer Science (with Highest Honors)
	B.S. in Mathematics (with Highest Honors)

PUBLICATIONS

• Self-Training as Stackelberg Game: An End-to-End Differentiable Approach Simiao Zuo*, Yue Yu*, Chen Liang, Haoming Jiang, Siawpeng Er, Chao Zhang, Tuo Zhao and Hongyuan Zha

Submitted to Knowledge Discovery and Data Mining (KDD), 2021

 Context-Aware Query Rewriting for Improving Users' Search Experience on E-commerce Websites

Simiao Zuo, Qingyu Yin, Yiwei Song, Bing Yin, Chao Zhang and Tuo Zhao Submitted to *Knowledge Discovery and Data Mining (KDD)*, 2021

• Super Tickets in Pre-Trained Language Models: From Model Compression to Improving Generalization

Chen Liang, **Simiao Zuo**, Minshuo Chen, Haoming Jiang, Xiaodong Liu, Pengcheng He, Tuo Zhao and Weizhu Chen

Submitted to Association for Computational Linguistics (ACL), 2021

Adversarial Training as Stackelberg Game: An Unrolled Optimization Approach
 Simiao Zuo, Chen Liang, Haoming Jiang, Xiaodong Liu, Pengcheng He, Jianfeng Gao, Weizhu Chen and Tuo Zhao

Submitted to North American Chapter of the Association for Computational Linguistics (NAACL), 2021

• Fine-Tuning Pre-trained Language Model with Weak Supervision: A Contrastive-Regularized Self-Training Approach

Yue Yu*, **Simiao Zuo***, Haoming Jiang, Wendi Ren, Tuo Zhao and Chao Zhang Submitted to *North American Chapter of the Association for Computational Linguistics (NAACL)*, 2021

- A Hypergradient Approach to Robust Regression without Correspondence Yujia Xie*, Yixiu Mao*, Simiao Zuo, Hongteng Xu, Xiaojie Ye, Tuo Zhao and Hongyuan Zha International Conference on Learning Representations (ICLR), 2020
- Transformer Hawkes Process

Simiao Zuo, Haoming Jiang, Zichong Li, Tuo Zhao and Hongyuan Zha *International Conference on Machine Learning (ICML)*, 2020

• Tensor maps for synchronizing heterogeneous shape collections Qixing Huang, Zhenxiao Liang, Haoyun Wang, Simiao Zuo and Chandrajit Bajaj ACM Transactions on Graphics (TOG), 2019

PROFESSIONAL EXPERIENCES

2021.5 - 2021.8	Data scientist intern, Microsoft
2020.9 - 2020.12	Applied scientist intern, Amazon
2020.6 - 2020.8	Research intern, Microsoft

TEACHING EXPERIENCES

Teaching Assistantship:

• Basic Statistical Methods (ISyE 3030), Fall 2019/Spring 2020

REFERENCES

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