

TIMOTHY(TIANXIANG) ZHAO

Pennsylvania State University, University Park
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EDUCATION

University of Science and Technology of China
Class of the Gifted Young, School of the Gifted Young
Bachelor in Computer Science

Sep 2013 - June 2017

University of Science and Technology of China
Software Engineering, School of the Software

Sep 2017 - June 2019

Pennsylvania State University
College of Information Science and Technology
Advisor: Suhang Wang, Xiang Zhang

June 2019 - present

RESEARCH BACKGROUNDS

Graph Neural Network, Transfer Learning, Natural Language Processing

RESEARCH EXPERIENCE

NEC Labs
Research Intern in NLP

May 2022 - Aug 2022
Princeton, US

- Mentor: Wenchao Yu
- Focusing on imitation learning with latent skill discovery.
- Research interests: Reinforcement Learning, Imitation Learning, Positive-unlabeled learning

NEC Labs
Research Intern in NLP

May 2021 - Aug 2021
Princeton, US

- Mentor: Wenchao Yu
- Focusing on interpreting RL agents with causality theory.
- Research interests: Causal Discovery, Reinforcement Learning, Imitation Learning

Tencent AI Lab
Research Intern in NLP

Jan 2019 - June 2019
Shenzhen, China

- Mentor: Lemao Liu
- Focusing on applying reinforcement learning to machine translation.
- Research interests: Neural Machine Translation, Reinforcement Learning

SenseTime
Research Intern in Computer Vision

July 2018 - Jan 2019
Beijing, China

- Mentor: Xu Jia, Jing Shao
- Focusing on designing efficient networks to be run on mobile devices.
- Research interests: Domain Adaptation, Knowledge Distillation, Network Architecture

- Supervisor: Guiquan Liu
- Learning basics in convex optimization and machine learning.
- Research interests: Transfer Learning, Domain Adaptation, Zero-shot Learning.

PROJECT EXPERIENCE

Semantic segmentation for remote sensing images

Sep 2017 - Nov 2017

- Responsible for design and implement of the algorithm
- Used FCN structure

PUBLICATIONS

- **Tianxiang Zhao**, Dongsheng Luo, Xiang Zhang, Suhang Wang. "TopoImb: Toward Topology-level Imbalance in Learning from Graphs." Accepted by LOG23.
- **Tianxiang Zhao**, Dongsheng Luo, Xiang Zhang, Suhang Wang. "Towards Faithful and Consistent Explanations for Graph Neural Networks." Accepted by WSDM2023.
- **Tianxiang Zhao**, Xiang ZHANG, Suhang Wang. "Exploring Edge Disentanglement for Node Classification." Accepted by WWW2022.
- **Tianxiang Zhao**, Enyan Dai, Kai Shu, Suhang Wang. "Towards Fair Classifiers Without Sensitive Attributes: Exploring Biases in Related Features." Accepted by WSDM2022.
- **Tianxiang Zhao**, Xiang Zhang, Suhang Wang. "GraphSMOTE: Imbalanced Node Classification on Graphs with Graph Neural Networks." Accepted by WSDM2021.
- **Tianxiang Zhao**, Xianfeng Tang, Xiang Zhang, Suhang Wang. "Semi-Supervised Graph-to-Graph Translation." Accepted by CIKM2020.
- **Tianxiang Zhao**, Lemao Liu, Huayang Li, Guoping Huang, Enhong Chen, Guiquan Liu, Shuming Shi. "Balancing Quality and Human Involvement: An Effective Approach to Interactive Neural Machine Translation." Accepted by AAAI2020.
- **Tianxiang Zhao**, Guiquan Liu, Le Wu, Chao Ma, Enhong Chen. "Energy Based Model for Zero Shot Learning." regular paper. International conference on Data Mining(**ICDM**),2018.
- Xiaoying Ren, Linli Xu, **Tianxiang Zhao**(second student author), Chen Zhu, Junliang Guo, Enhong Chen. "Tracking and Forecasting Dynamics in Crowdfunding: A Basis-Synthesis Approach." short paper, International conference on Data Mining(**ICDM**),2018.