

# TIANXIANG ZHAO

Pennsylvania State University, University Park  
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## EDUCATION

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**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(quit)

*Sep 2017 - June 2019*

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

*June 2019 - present*

## RESEARCH BACKGROUNDS

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Graph Neural Network, Transfer Learning, Natural Language Processing

## RESEARCH EXPERIENCE

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**Anhui Province Key Laboratory of Big Data Analysis and Application** May 2017 - Present  
- *USTC*

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

**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

## PROJECT EXPERIENCE

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**Semantic segmentation for remote sensing images**

Sep 2017 - Nov 2017

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

## PUBLICATIONS

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- **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.