

Qiuling Xu

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I am a 4th-year PhD student. I am looking for research opportunities regarding CV/NLP/ML and their practical applications. I am experienced with hands-on deep learning, math proof, and programming. I am particularly experienced in adversarial learning. I am open to all interesting opportunities.

Education

Purdue University

PhD in **Computer Science**, West Lafayette, Indiana, USA

Aug. 2018 – May 2023 (expected)

Nanjing University

BS in **Computer Science**, Nanjing, Jiangsu, China

Aug. 2014 – May 2018

Experience

Adobe, Research Intern, California

May. 2021 – Aug 2021

- Improve the **Consistency Learning** in model development.

Microsoft Research, Research Intern, Beijing

Mar. 2018 – June 2018

- Designed hyper-parameter searching space representation for **user-friendly automatic machine learning**.

Purdue University, Research Assistant, Indiana

Aug. 2018 – Present

- Studied methods for defense, explanation, and analysis of adversarial attack in **adversarial learning**.

Nanjing University, Research Assistant, China

Aug. 2016 – June 2018

- Devised an end-to-end module to learn **logical reasoning** and **neural perception** simultaneously.

Awards

Top 1% in ACM-ICPC International Programming Contest China **Final** (16/1500)

2016, Shanghai, China

Publications (* represents equal contribution)

Backdoor Scanning for Deep Neural Networks through K-Arm Optimization

Guangyu, Yinqi, Guanhong, Shengwei, **Qiuling** and Xiangyu

ICML 2021

A Le Cam Type Bound for Adversarial Learning and Applications

Qiuling*, Kevin* and Jean

ISIT 2021

Towards Feature Space Adversarial Attack by Style Perturbation

Qiuling, Guanhong, Siyuan and Xiangyu

AAAI 2021

Trace Divergence Analysis and Embedding Regulation for Debugging Recurrent Neural Networks

Guanhong, Shiqing, Yingqi, **Qiuling** and Xiangyu

ICSE 2020

Bridging Machine Learning and Logical Reasoning by Abductive Learning

WangZhou*, **Qiuling***, Yang* and Zhihua

NeurIPS 2019

Deep Distribution Bound for Nature-looking Adversarial Attack

Qiuling, Guanhong and Xiangyu

Preprint

Reducing Accuracy Gap in Adversarial Training by Discriminating Adversarial Samples

Qiuling, Guanhong, Shengwei, Jean and Xiangyu

Preprint

Technical Skills

Experience: Reinforcement Learning, Optimization, Learning Theory, System, Programming Language, Algorithm, Computer Vision, Natural Language Processing

Languages: Python, C, C++, SQL **Frameworks:** Tensorflow, Pytorch