Yunzhe Tian

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RESEARCH INTERESTS

AI security including adversarial examples, robust reinforcement learning and robust graph neural network.

EDUCATION

Beijing Jiaotong University

Beijing Key Laboratory of Security and Privacy in Intelligent Transportation

Master in Electronic information (Artificial Intelligence)

Sep 2

Sep 2020 - Jun 2022 (expected)

Advisor: Prof. Wenjia Niu

Beijing Information Science & Technology University

Beijing, China

Bachelor in Information System & Information Management GPA: 4.02

Sep 2016 - Jun 2020

INTERN AND RESEARCH EXPERIENCE

Beijing Jiaotong University

Research Intern

Mar. 2021 - Present

- Develop a Professional Domain Knowledge Graph System used for information mining, including semantic-based retrieval, knowledge-based Q&A, etc.
- Advisor: Prof. Wenjia Niu

Knowledge Engineering Group, Tsinghua University

Research Intern

Sep, 2019 - Jun, 2020

- Researching on named entity open relation extraction algorithm for Beijing Travel Knowledge Graph.
- Advisor: Prof. Juanzi Li

Knowledge Engineering Group, Tsinghua University

Research Intern

Sep, 2018 - Jun, 2019

- Based on the data of Aminer System, making prediction on the research lifespan of scholars via machine learning and deep learning
- Advisor: Dr. Peng Zhang

Publications

Yunzhe Tian, Yike Li, Yingxiao Xiang, Wenjia Niu, Endong Tong, and Jiqiang Liu. Curricular Reinforcement Learning for Robust Policy in Unmanned CarRacing Game. In *NDSS 2021, Workshop on Automotive and Autonomous Vehicle Security (AutoSec)*.

Yunzhe Tian, Jiqiang Liu, Endong Tong, Wenjia Niu, Liang Chang, Qi Alfred Chen, Gang Li, and Wei Wang. Towards Revealing Parallel Adversarial Attack on Politician Socialnet of Graph Structure. In Security and Communication Networks (SCN), 2021.

Endong Tong, Wenjia Niu, **Yunzhe Tian**, Jiqiang Liu, Thar Baker, Sandeep Verma, and Zheli Liu. A Hierarchical Energy-efficient Service Selection Approach with Qos Constraints for Internet of Things. In *IEEE Transactions on Green Communications and Networking (TGCN)*, 2021.

Yalun Wu, Minglu Song, Yike Li, **Yunzhe Tian**, Endong Tong, Wenjia Niu, Bowei Jia, Haixiang Huang, Qiong Li and Jiqiang Liu. Improving Convolutional Neural Network-based Webshell Detection through Reinforcement Learning. In *The 23rd International Conference on Information and Communications Security (ICICS 2021), 2021.*

Tong Chen, Yingxiao Xiang, Yike Li, **Yunzhe Tian**, Endong Tong, Wenjia Niu, Jiqiang Liu, Li Gang and Qi Alfred Chen. Protecting Reward Function of Reinforcement Learning via Minimal and Non-catastrophic Adversarial Trajectory. In *The 40th International Symposium on Reliable Distributed Systems (SRDS 2021)*, 2021.

王硕汝, 牛温佳, 童恩栋, 陈彤, 李赫, **田蕴哲**, 刘吉强, 韩臻, 李浥东. 强化学习离线策略评估研究综述. 计算机学报, 2021.

Yunzhe Tian, Yingdi Wang, Endong Tong, Wenjia Niu, Liang Chang, Qi Alfred Chen, Gang Li, and Jiqiang Liu. Exploring Data Correlation between Feature Pairs for Generating Constraint-based Adversarial Examples. In *IEEE 26th International Conference on Parallel and Distributed Systems (ICPADS 2020), 2020.*

Xinyu Huang, **Yunzhe Tian**, Yifei He, Endong Tong, Wenjia Niu, Chenyang Li, Jiqiang Liu, and Liang Chang. Exposing Spoofing Attack on Flocking-based Unmanned Aerial Vehicle Cluster: A Threat to Swarm Intelligence. In *Security and Communication Networks (SCN)*, 2020.

Bowei Jia, **Yunzhe Tian**, Di Zhao, Xiaojin Wang, Chenyang Li, Wenjia Niu, Endong Tong, and Jiqiang Liu. Bidirectional Rnn-based Few-shot Training for Detecting Multi-stage Attack. In *The 16th International Conference on Information Security and Cryptology (INSCRYPT 2020)*, 2020.

Qinghua Wen, **Yunzhe Tian**, Xiaohui Zhang, Ruoyun Hu, Jinsong Wang, Lei Hou, and Juanzi Li. Type-aware Open Information Extraction via Graph Augmentation Model. In *China Conference on Knowledge Graph and Semantic Computing (CCKS 2020), 2020.*

ACADEMIC EXPERIENCE

Oral Presentation in AutoSec Workshop @ NDSS'21 (remote presentation)

Oral Presentation in Inscrypt 2020, Guangzhou, China

Oral Presentation in ICPADS 2020, Hong Kong, China (remote presentation)

Selected Awards

	Excellent Undergraduate of Beijing City	2020	
	Excellent Undergraduate Thesis of Beijing City	2020	
	Excellent Undergraduate of Beijing Information Science & Technology University	2020	
	Excellent Undergraduate Thesis of Beijing Information Science & Technology University		
		2020	
	National Scholarship of China	2019	
	President Scholarship of Beijing Information Science & Technology University	2019	
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TECHNICAL STRENGTHS

Deep Learning Software Stacks: Pytorch, Tensorflow

Programming Languages: Proficient with Python, Java