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Education

2020 - now ***Master of Computing*** *(Artificial Intelligence Specialisation)*
School of Computing,
National University of Singapore, Singapore

2015-2019 ***Bachelor of Engineering*** *Computer Science (Computer Vison & Graphics)*
School of Computer Science and Technology,
Xidian University, Xi'an, Shaanxi, China

Publication

2021 [1] *Self-Checking Deep Neural Networks in Deployment.*
Yan Xiao, Ivan Beschastnikh, David S. Rosenblum, Changsheng Sun, Sebastian Elbaum, Yun Lin, Jin Song Dong. (In proceedings of **ICSE 2021**) [Paper] [ICSE 2021]

2020 [2] *Digraph Inception Convolutional Networks.*
Zekun Tong, Yuxuan Liang, Changsheng Sun, David Rosenblum and Andrew Lim.
(In proceedings of **NeurIPS 2020**) [Paper, Poster]

2019 [3] *DISCO: Influence Maximization Meets Network Embedding and Deep Learning*.
Hui Li, Mengting Xu, Sourav S Bhowmick, Changsheng Sun, Zhongyuan Jiang, Jiangtao Cui.
(Revised Version Submitted to **KDD 2021**) [arXiv:1906.07378]

Research Experience

Jan. – Jul. 2020 ***Research Intern***
NUS School of Computing / NUS-Singtel Cyber Security R&D Lab
*"**Trustworthiness evaluation for deep learning systems**"*

- Advised by Prof. David S. Rosenblum
- This project is to design a white-box testing and uses the outputs of the intermediate layers in the deep neural networks to fit density distributions.
- Our work to be appear in ICSE 2021: *Self-Checking Deep Neural Networks in Deployment*.[Paper]

2019 ***Undergraduate Research Assistant,***
Data Engineering and Security Lab, Xidian Univ., Xi'an, China
"Influence Maximization Problem Meets Submodular Function Optimization"

- **Undergraduate thesis** Advised by Prof. Hui Li

- "Outstanding Undergraduate Thesis" in the School of Computer Science and Technology (Overall Score Ranked **1st/550**)

2018-2019 ***Undergraduate Research Assistant,***
Data Engineering and Security Lab, Xidian Univ., Xi'an, China
"DISCO: Influence Maximization Problem Using Deep Q-Learning and Graph Embedding"
- Advised by Prof. Hui Li
- A novel framework for IM problem that incorporates graph embedding and deep reinforcement learning techniques
- (Revised Version Submitted to **KDD 2021**) [arXiv:1906.07378]

Mar.-June. 2018 ***Research Intern & Algorithm Engineer***
JD Intelligent Cities Business Unit & JD Intelligent Cities Research, Beijing, China
"Distributed Reinforcement Learning System Research"
- Advised by Prof. Yu Zheng
- A study on distributed DQN implementation on spatiotemporal data, based on Ray execution framework.
- [Link to icity.jd.com]

2016-2019 ***Undergraduate Student Member***
Laboratory for Innovation, School of Computer Science and Technology, Xidian Univ.
- Advised by Dr. Yanguo Peng

Skills

Professional Skills
- Python (NumPy, TensorFlow, PyTorch, Matplotlib, etc.)
- Basic Linux
- LaTeX
- Spark

Language Skills
- Mandarin Chinese
- English

Honors & Awards

2017-2018 The **First Prize** Scholarship (10%; Xidian University)
2015-2016 **Special Scholarship**, Symphony Orchestra and Chorus of Xidian University
2015-2016 The **Third Prize** Scholarship (30%; Xidian University)
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2018 **Honorable Mention** MCM/ICM-The Mathematical Contest in Modeling (Top 20% Globally)
2017 **Third Prize** "Challenge Cup" the Science and Innovation Competition, Shaanxi, China
2017 **Finalist** "Beauty of Programming" Competition, Microsoft Research Asia
2016 **First Prize and Second Prize** "Spark Cup" , Xi'an, China
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2017 "Elegant Art into the Campus" Symphonic Chorus Concert Outstanding Individuals
2016 "Yellow River" Symphonic Chorus Concert Outstanding Contribution Award