Sun Changsheng (孙常晟)

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Education

2022 -	***Doctor of Philosophy*** *(Computer Science)* School of Computing, National University of Singapore, Singapore
2020 - 2021	***Master of Computing*** *(Artificial Intelligence)* School of Computing, National University of Singapore, Singapore
2015-2019	***Bachelor of Engineering*** *(Computer Science)* School of Computer Science and Technology, Xidian University, Xi'an, Shaanxi, China

Publications

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

Research Experiences

June. – Dec. 2021   **Research Assistant**
NUS School of Computing
"Evaluating the Trustworthiness of Deep Learning Systems"
- Advised by Prof. DONG Jin Song
- Funded by the Singapore National Research Foundation (NRF) under the National Satellite of Excellence on Trustworthy Software Systems (NSoE-TSS).
- This project will develop new techniques for determining the trustworthiness of DL systems, with an emphasis on uncovering and accounting for the underlying uncertainties.

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

Mar.-June.   ***Research Intern & Algorithm Engineer***
2018   JD Intelligent Cities Business Unit & JD Intelligent Cities Research, Beijing, China
- Advised by Prof. Yu Zheng
- [Link to icity.jd.com]

Language Skills
- Mandarin Chinese
- English

Honors & Awards
2022   NUS Research Scholarship
2018   The First Prize Scholarship, Xidian University
2016   Special Scholarship, Symphony Orchestra and Chorus of Xidian University
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2017   Finalist, "Beauty of Programming", Microsoft Research Asia