Yijun Yang, Ph.D. Candidate

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Short Bio

- I am a fourth-year Ph.D. student of CUhk REliable Laboratory (CURE), in the Department of Computer Science and Engineering, The Chinese University of Hong Kong, supervised by Prof. Qiang Xu. Our lab focuses on AI security and AI robustness related tasks. Before that, I received my M.Phil in EE from Tsinghua University in 2019. My current research interests span the fields of AI security and Deep Learning, including Adversarial Example defense, Out-of-distribution detection, Deep Generative Models, and self-supervised learning.

Education

- **Ph.D., The Chinese University of Hong Kong**, Hong Kong S.A.R.
  CUhk REliable Computing Laboratory (CURE),
  Department of Computer Science and Engineering. GPA: 3.7/4.0
- **M.Phil., Tsinghua University**, Beijing, China.
  Department of Integrated Circuit Engineering. GPA: 3.7/4.0, Ranking: 3/45
- **B.Eng, Central South University**, Changsha, China.
  Department of Automation. GPA: 3.7/4.0

Experiences

Research intern	Mar. 2022 - Present, Foundation Model, Megvii, Beijing, China
	Mar. 2020 - June. 2020, 2012 Lab, Huawei, Shenzhen, China

Selected Research Publications

1. **Yijun, Yang**, Ruiyuan, G., & Qiang, X. (2022). Out-of-distribution detection with semantic mismatch under masking. *European Conference on Computer Vision* (***ECCV 2022***). Retrieved from https://arxiv.org/abs/2208.00446
2. **Yijun, Yang**, Ruiyuan, G., Yu, L., Qiuxia, L., & Qiang, X. (2022). What you see is not what the network infers: Detecting adversarial examples based on semantic contradiction. *Network and Distributed Systems Security* (***NDSS 2022***). Retrieved from http://arxiv.org/abs/2201.09650
3. Zhiyuan, He*, **Yijun, Yang***, Pin-yu, C., Qiang, X., & Tsung, H. (2022). Be your own neighborhood: Detecting adversarial example by the neighborhood relations built on self-supervised learning. *European Conference on Computer Vision Workshop* (***ECCV 2022 AWOR***) ** co-first author.*
4. **Yijun, Yang**, Ruiyuan, G., Yu, L., Qiuxia, L., & Qiang, X. (2021). Mixdefense: A defense-in-depth framework for adversarial example detection. *The International Symposium on Computer Architecture* (***ISCA 2021***) *Workshop*. Retrieved from https://sites.google.com/usc.edu/spsl/home
5. **Yijun, Yang**, Liji, W., Ye, Y., & Xiangmin, Z. (2019). A general hardware trojan technique targeted on lightweight cryptography with bit-serial structure. *EAI International Conference on Security and Privacy in New Computing Environments* (***SPNCE 2019***).
6. **Yijun, Yang**, Ye, Y., Liji, W., & Xiangmin, Z. (2017). A novel hardware trojan detection with chipid based on relative time delay. *IEEE International Conference on Anticounterfeiting Security and Identification* (***ASID 2017***).

Selected Award and Honors

- **International Algorithm Case Competition 2022** - Adversarial Defence Competition, 2_{nd} place.
- **Full Postgraduate Studentship**, The Chinese University of Hong Kong.
- **Outstanding Master Graduate**, Tsinghua University (Top 2%).
- **Outstanding Thesis Award**, Tsinghua University (Top 3%).
- **Scholarship for Advancement in Academic Work**, Tsinghua University (Top 5%).
- **Scholarship for Advancement in Academic Work**, Tsinghua University (Top 5%).
- **Outstanding Bachelor Graduate**, Central South University (Top 3%).
- **Outstanding Thesis Award**, Central South University (Top 5%).