

# Yijun Yang, Ph.D. Candidate

✉ yjyang@cse.cuhk.edu.hk    ✉ yangyj16@tsinghua.org.cn  
🏠 Yijun's Homepage    🐙 Github  
🔍 Google Scholar    📄 Research Gate  
📞 +86 18613370368    📞 +852 59862685



## Short Bio

- 📌 I am a final-year Ph.D. candidate at the [CUhk RELIable Laboratory \(CURE\)](#), part of the Department of Computer Science and Engineering at [The Chinese University of Hong Kong](#), under the guidance of [Prof. Qiang Xu](#). Our laboratory primarily concentrates on tasks related to AI security and robustness. Prior to this, I earned my M.Phil in Electrical Engineering, with a focus on hardware security chip design, from [Tsinghua University](#) in 2019. Currently, my research interests are concentrated in the realms of AI Safety. This includes working on designing robust LLM and diffusion models and developing adversarial attacks on diffusion-based Text-to-Image models.

## Education

- 📌 **Ph.D., The Chinese University of Hong Kong**, Hong Kong S.A.R.  
*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*

## Research intern

- 📌 July 2023 - Nov. 2023, AIGC group, [Wenge-YaYi Large Model](#), Beijing, China
- 📌 Mar. 2022 - June 2023, Foundation Model, Megvii, Beijing, China
- 📌 Mar. 2020 - June 2020, 2012 Lab, Huawei, Shenzhen, China

## Selected Research Publications

- 1 **Yijun Yang**, Ruiyuan Gao, Xiaosen Wang, Tsung-Yi Ho, Nan Xu, & Qiang Xu. (2023). Mma-diffusion: Multimodal attack on diffusion models. *Submit to IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR 2024 under review)*. Retrieved from [🔗 https://arxiv.org/abs/2311.17516](https://arxiv.org/abs/2311.17516)
- 2 **Yijun Yang**, Xiangyu Wen, Ruiyuan Gao, Xiangyu Zhang, & Qiang Xu. (2023). Defending object detectors against adversarial hiding attacks with semantic input validation. *On going*.
- 3 Zhiyuan He\*, **Yijun Yang\***, Pin-yu Chen, Qiang Xu, & Tsung-Yi Ho. (2023). Be your own neighborhood: Detecting adversarial example by the neighborhood relations built on self-supervised learning. *Submit to International Conference on Learning Representations (ICLR 2024 under review)* \* co-first author.
- 4 **Yijun Yang**, Ruiyuan Gao, & Qiang Xu. (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](https://arxiv.org/abs/2208.00446)
- 5 **Yijun Yang**, Ruiyuan Gao, Yu Li, Qixia Lai, & Qiang Xu. (2022). What you see is not what the network infers: Detecting adversarial examples based on semantic contradiction. *Network and Distributed Systems Security (NDSS 2022)*.
- 6 **Yijun Yang**, Ruiyuan Gao, Yu Li, Qixia Lai, & Qiang Xu. (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](https://sites.google.com/usc.edu/spsl/home)

## Services

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- I am invited as a reviewer of academic conferences: **ICASSP, NeurIPS, ICLR, CVPR**

## Selected Award and Honors

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- **International Algorithm Case Competition 2023** - Adversarial Defence Competition, *2<sup>nd</sup>* 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%).