

Jiongchi Yu

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EDUCATION

- Ph.D. Singapore Management University, Singapore**
Computer Science 2022 - Present
Advisor: Prof. Xiaofei Xie
- B.E. Zhejiang University, Hangzhou, China**
Polymer Material and Engineering 2017 - 2022
Advisor: Prof. Zhikang Xu
Prof. Fan Zhang

PUBLICATIONS

Conference Proceedings

- 2025 Ziming Zhao, Zhuoxue Song, Xiaofei Xie, Zhaoxuan Li, **Jiongchi Yu**, Fan Terry Zhang, and Tingting Li. “Towards Context-Aware Traffic Classification via Time-Wavelet Fusion Network.” In: *Proceedings of the 31st ACM SIGKDD Conference on Knowledge Discovery and Data Mining*. 2025
- 2024 **Jiongchi Yu**, Xiaofei Xie, Cen Zhang, Sen Chen, Yuekang Li, and Wenbo Shen. “Bugs in Pods: Understanding Bugs in Container Runtime Systems.” In: *Proceedings of the 33rd ACM SIGSOFT International Symposium on Software Testing and Analysis (Technical Track)*. 2024
- 2024 Ziming Zhao, Zhaoxuan Li, Tingting Li, **Jiongchi Yu**, Fan Zhang, and Rui Zhang. “Improving Model Robustness against Adversarial Examples with Redundant Fully Connected Layer.” In: *Companion Proceedings of the ACM on Web Conference 2024 (Short Paper)*. 2024, pp. 529–532
- 2024 Xi Ling, **Jiongchi Yu**, Ziming Zhao, Zhihao Zhou, Haitao Xu, Binbin Chen, and Fan Zhang. “DDoSMiner: An Automated Framework for DDoS Attack Characterization and Vulnerability Mining.” In: *International Conference on Applied Cryptography and Network Security*. 2024
- 2023 **Jiongchi Yu**, Yuechen Wu, Xiaofei Xie, Wei Le, Lei Ma, Yingfeng Chen, Yujing Hu, and Fan Zhang. “GameRTS: A Regression Testing Framework for Video Games.” In: *Proceedings of the 45th International Conference on Software Engineering (Technical Track)*. 2023

Journal Articles

- 2023 Ziming Zhao, Zhaoxuan Li, Xiaofei Xie, **Jiongchi Yu**, Fan Zhang, Rui Zhang, Binbin Chen, Xiangyang Luo, Ming Hu, and Wenrui Ma. “FOSS: Towards Fine-Grained Unknown Class Detection against the Open-Set Attack Spectrum with Variable Legitimate Traffic.” In: *IEEE/ACM Transactions On Networking* (2024)

- 2024 Ziming Zhao, Zhaoxuan Li, Zhihao Zhou, **Jiongchi Yu**, Zhuoxue Song, Xiaofei Xie, Fan Zhang, and Rui Zhang. "DDoS Family: A Novel Perspective for Massive Types of DDoS Attacks." In: *Computers & Security* (2023), p. 103663
- 2023 Ziming Zhao, Zhaoxuan Li, **Jiongchi Yu**, Fan Zhang, Xiaofei Xie, Haitao Xu, and Binbin Chen. "CMD: Co-analyzed IoT Malware Detection Beyond the Network Traffic Domain." In: *IEEE Transactions on Mobile Computing* (2023)
- 2022 Shangjin Yang, Zhiyuan Xu, Lingyun Zou, **Jiongchi Yu**, Jian Ji, and Zhikang Xu. "Porous Photo-Fenton Catalysts Rapidly Triggered by Levodopa-Based Mussel-Inspired Coatings for Enhanced Dye Degradation and Sterilization." In: *Langmuir* 38.31 (2022), pp. 9587–9596
- 2021 Renqiang Zhang, Xiangyu Jiang, **Jiongchi Yu**, Chong Zeng, Ming Gong, and Shun Xu. "Calculation and Optimization of Correlation Function in Distillation Method of Lattice Quantum Chromodynamics." In: *ACTA PHYSICA SINICA* 70.16 (2021)
- 2021 **Jiongchi Yu**, Mengqi Ma, Chengye Zhu, Dengfeng Hu, Jian Ji, and Zhikang Xu. "MoS₂ Membranes with Photothermal Conversion Property for Nanofiltration and Antibacterial Activity." In: *ACTA POLYMERICA SINICA* 52.5 (2021), pp. 504–512

AWARDS AND HONORS

- 2023 SMU Presidential Doctoral Fellowship
- 2022 Participate Certificate (ranked 5th), International Student Cluster Competition (ISC22)
- 2021 First Prize Award, Asia Student Supercomputer Challenge (ASC20-21)
- 2020 Bronze Award, The 8th "Intel Cup" Parallel Application Challenge (PAC20)
- 2019 Second Prize Award, The 12th National College Information Security Contest
- 2019 Second Prize Award, Asia Student Supercomputer Challenge (ASC19)

TEACHING

- 2024, 2025 **Senior Teaching Assistant** at Course "CS704 Information Security", Singapore Management University, **Instructor:** Prof. Robert H. Deng
- 2020, 2021 **Teaching Assistant** at Course "Introduction of High Performance Computing", Zhejiang University, **Instructor:** Prof. Jianhai Chen
- 2018 **Teaching Assistant** at Course "The Art of Violin", Zhejiang University, **Instructor:** Prof. Cong Zhou

PROFESSIONAL SERVICES

- Junior PC** MSR 2024-2025
- AEC Member** ICSE 2025, ISSTA 2024, CCS 2023, USENIX Security 2024-2025, EuroSys 2024
- Reviewer** JPDC, JNCA, JISA

¹Last Update: 1st December 2024