Peishen Yan

Email: peishenyan@sjtu.edu.cn | Tel: (+86) 18821201696
Wechat: zillionkkk | Github Page: github.com/KoalaYan

Education

Shanghai Jiao Tong University   2022/09 – 2027/06 (Expected)
Ph.D Candidate in Computer Science and Technology, GPA 3.75/4   Shanghai, China
Courses: Computer Networks, Advanced Computer Architecture, Statistical Learning, etc.

Shanghai Jiao Tong University   2018/09 – 2022/06
B. Eng in Computer Science and Technology   Shanghai, China
- GPA 89.65/100, Rank 28/154, Zhiyuan Honor Degree of Bachelor of Engineering
- A/A+ Courses: Algorithm and Complexity, Data Structure (Honor), Operating Systems, and 27 others

Publications and Preprints

SkyMask: Attack-Agnostic Robust Federated Learning with Fine-Grained Learnable Masks
Peishen Yan, Hao Wang, Tao Song, Yang Hua, Ruhui Ma, Ningxin Hu, Mohammad R. Haghighat, Haibing Guan.
European Conference on Computer Vision (ECCV). 2024: 291-308.

FedCod: An Efficient Communication Protocol for Cross-Silo Federated Learning with Coding
Peishen Yan, Jun Li, Hao Wang, Tao Song, Yang Hua, Lu Peng, Haihui Zhou, Haibing Guan.
arXiv preprint arXiv:2501.00216, 2024.

OFL-W3: A One-shot Federated Learning System on Web 3.0
Linshan Jiang, Moming Duan, Bingsheng He, Yulin Sun, Peishen Yan, Yang Hua, Tao Song.
Proceedings of the VLDB Endowment, 2024, 17(12): 4461-4464.

Stealthy Backdoor Attack in Federated Learning via Adaptive Layer-wise Gradient Alignment
Qingqian Yang, Peishen Yan, Xiaoyu Wu, Jiaru Zhang, Tao Song, Yang Hua, Hao Wang, Liangliang Wang, Haibing Guan.
International Conference on Computer Vision (ICCV). 2025.

Professional Services

- Journal reviewer: IEEE Transactions on Parallel and Distributed Systems (TPDS)
- Conference reviewer: ICCV 2025, AAAI 2026

Internship

Intel Corporation, Shanghai, PRC   2023/10 – Now
- OnnxRuntime WebNN Execution Provider development
- LLM Modeling for WebNN

Awards

- [2019/12] Tung OOCL Scholarship
- [2021/12] Zhiyuan Honors Scholarship
- [2022/06] Graduate with honor of Shanghai
- [2025/06] KunPeng & Ascend Research and Innovation Outstanding Young Contributor

Teaching experience

- Mathematical Analysis. Teaching Assistant (Fall 2020, Fall 2021)
- Discrete Mathematics. Teaching Assistant (Fall 2022, Fall 2023)