

Zhifeng Jiang | Curriculum Vitae

Department of CSE, The Hong Kong University of Science and Technology
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I am currently a PhD candidate from Department of Computer Science and Engineering, The Hong Kong University of Science and Technology, Hong Kong SAR, advised by Prof. Wei Wang. My current research interests lie in efficient system design and implementation for privacy-preserving machine learning*.

Education

- **Dept. of CSE, The Hong Kong University of Science and Technology** **Hong Kong SAR**
Ph.D. Candidate, CGA: 4.0/4.2 9.2019–
Advisor: Prof. Wei Wang.
Field: Privacy-Preserving Machine Learning.
- **Dept. of CS, Zhejiang University** **Hangzhou, China**
B.Eng., GPA: 3.9/4.0 9.2015–7.2019
Selected courses: Computer Organization, Operating System, Embedded System, Cryptography.

Experience

- **Huawei Technologies Co., Ltd.** **Hangzhou, China**
Engineering Intern, advised by Mr. Qing Wen 2.2019–5.2019
Engineered on a serverless infrasture with Go, Docker and Kubernetes.
- **University of California, San Diego** **La Jolla, USA**
Research Intern, advised by Prof. Dean Tullsen 7.2018–9.2018
Devised defense against Return-Oriented Programming with Context-Sensitive Decoding techniques.

Publications

1. **Pisces: Efficient Federated Learning via Guided Asynchronous Training** 11.2022
Zhifeng Jiang, Wei Wang, Baochun Li, Bo Li
In the proceedings of ACM Symposium on Cloud Computing (SoCC), 2022.
Towards Efficient Synchronous Federated Training: A Survey on System
2. **Optimization Strategies** 10.2022
Zhifeng Jiang, Wei Wang, Bo Li, Qiang Yang
To appear in IEEE Transactions on Big Data (TBD), 2022.
Gillis: Serving Large Neural Networks in Serverless Functions with Auto-
3. **matic Model Partitioning** 7.2021
Minchen Yu, Zhifeng Jiang, Hok Chun Ng, Wei Wang, Ruichuan Chen, Bo Li
In the 41st IEEE International Conference on Distributed Computing Systems (ICDCS), 2021.
Best Paper Award Finalist

*Last updated in Mar. 2023.

Talks and Presentations

1. **Taming Client Dropout and Improving Efficiency for Distributed Differential Privacy in Federated Learning**
Internal Seminar 2023, Google LLC 02.2023
2. **Pisces: Efficient Federated Learning via Guided Asynchronous Training**
2022 ACM Symposium on Cloud Computing, San Francisco, CA, US 11.2022

Services

- **Journal Reviewer:** IEEE Transactions on Mobile Computing
- **Shadow Program Committee:** ACM EuroSys 2023
- **Artifact Evaluation Committee:** ACM SOSP 2021, USENIX OSDI 2022, USENIX ATC 2022
- **Journal Sub-Reviewer:** IEEE Transactions on Network Science and Engineering, IEEE Transactions on Dependable and Secure Computing, IEEE Transactions on Big Data
- **Conference Sub-Reviewer:** IEEE INFOCOM 2020-2023, IEEE ICDCS 2023 and 2021, IEEE/ACM IWQoS 2020-2021, IEEE WoWMoM 2021, IEEE ICNP 2020

Honors and Awards

- **Research Travel Grant,** UGC, Hong Kong, 2023
- **Student Travel Scholarship,** ACM SoCC, 2022
- **Best Paper Runner-Up Award,** IEEE ICDCS, 2022
- **Outstanding Graduate,** Department of Education, Zhejiang Province, 2019
- **Annual Outstanding Student,** Department of Computer Science, Zhejiang University, 2017
- **National Scholarship,** Ministry of Education, China, 2017

Teaching

- **Teaching Assistant,** COMP3511: Operating System, HKUST, Fall 2022, Fall 2020
- **Teaching Assistant,** COMP4651: Cloud Computing, HKUST, Fall 2021
- **Teaching Assistant,** COMP4521: Mobile Application Development, HKUST, Spring 2020
- **Teaching Assistant,** Operating System (Educational Reform Class), ZJU, Fall 2018