

XUEFENG JIANG

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EDUCATION

Institute of Computing Technology, Chinese Academy of Sciences, Ph.D Student 09/2021 - Present
Major: Computer Science and Technology

Lab: Network Technology Research Center & State-Key Lab, supervised by [Prof.Liu](#) and [Associate Prof.Wang](#).

GPA: **3.82**/4.00

Key Course: Pattern Recognition & Machine Learning(3.8), Computer Network(4.0), Multi-Media(4.0), etc

Beijing University of Posts and Telecommunications, Bachelor's Degree 09/2017 - 07/2021
Major: Network Engineering, School of Computer Science

GPA: 3.69/4.00 (Rank top 3%)

Award: Enterprise Scholarship (Top 10 out of 600), Outstanding Graduate of Beijing, etc

Key Course: Operating System(92), Algorithm(94), Web Development(90), Software Engineering(96), etc

RESEARCH EXPERIENCE

Academic Research 8/2022

- Focus on the joint area of distributed MLsys (or Federated Learning, FL) and weakly-supervised learning.
- [My first work](#) got accepted at **ACM/CIKM '22** full paper track, which focuses on noisy labels in FL.
- This work is selected for **NSF student travel grant award**. The code is [opensourced](#) with 20 stars up now.
- Two co-authored works are submitted to IPDPS '23 about efficient training and non-IID issue in FL.

R&D Project with Huawei MindSpore Team towards FL 10/2020 - 10/2021

- Reviewed a certain amount of papers related to FL.
- Reproduced some baselines for client-edge-cloud FL system and Asynchronous FL Optimization.
- Contributed to develop a holistic FL framework for research incorporating various optimization mechanisms, security techniques and a customizable data partition module. Some codes are adopted by MindSpore project.
- Other information remains secret for related cooperation policy :) .

OTHER ACTIVITIES

- **Opensource Contribution:** Previously worked as an opensource community volunteer at [FedML](#), a start-up at UCLA. Currently contribute to a awesome paperlist opensource project [Awesome-FL](#) with 346 stars up now.
- **Development projects:** Image Manipulation Forensics(Pytorch), Web-crawler(Python), Hotel backend management system(Java), CPU function implement on a experimental chip(VHDL), C-Assembly Compiler(C/C++), Travelling Scheduling Router(Python/JavaScript), High-concurrency online shopping system(Golang), a interacting shell for human and embedded system(C), etc.

WORK EXPERIENCE

Algorithm Engineer Intern @Ai Startup Team from Tsinghua University 08/2020 - 11/2020

- Contributed to knowledge extraction from a large corpus of mathematics tests, and knowledge graph based knowledge management of mathematics concepts to serve for downstream tasks(eg. Auto inference and solution to mathematics problems).

Quality Assurance Intern @YuanFuDao Inc. 08/2019 - 10/2019

- Tested company's inner online management web frontend & backend functions.