

JIAWEI LIU

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EDUCATION

Tongji University, Shanghai, China
B.Eng. in Computer Science

Sept. 2017 - Jul. 2021

University of Illinois at Urbana-Champaign, IL, US
Ph.D. in Computer Science

Aug. 2021 (expected)
Advisor: [Lingming Zhang](#)

RESEARCH EXPERIENCES

Research Assistant at [PL-FM-SE Group](#), UIUC
Advisors: [Prof. Lingming Zhang](#)

Apr. 2021 - Present
Topic: *Compiler Fuzzing*

Research Assistant at NYU Systems Group
Advisors: [Prof. Jinyang Li](#) (Remote)

Jul. 2020 - Mar. 2021
Topic: *Video Analytic Systems*

Research Assistant at [Hyperplane Lab](#), [CFCS](#), Peking Univ.
Advisors: [Prof. Hao Dong](#) (Peking Univ.), [Prof. Luo Mai](#) (the Univ. of Edinburgh)

Jan. 2020 - Aug. 2020
Topic: *Pose Estimation Systems*

WORK EXPERIENCES

Research Intern at DAMO Academy, Alibaba-Inc
Advised by: [Dr. Yuanwei \(Kevin\) Fang](#), [Prof. Yuan Xie](#)

Mar. 2021 - Aug. 2021
Topic: *Distributed Systems*

Intern at AI Lab, ByteDance Inc.
Advised by: Guanzhe Huang, Yuchu Luo, [Dr. Chuanxiong Guo](#)

Feb. 2020 - Jul. 2020
Topic: *Inference Serving*

Teaching Assistant, Computer Graphics, Tongji Univ.
Lecturer: [Prof. Junqiao Zhao](#), Course link: <http://cs1.tongji.edu.cn/courses/CS100433/>

Sept. 2019 - Jan. 2020

NOTABLE ACHIEVEMENTS

Qidi Innovation Scholarship of Tongji University (Top 1%)

Oct. 2020

Selected Entrant for 2020 [Google](#) Machine Learning Winter Camp[†]

Dec. 2019

Winner of International Data Science Hackathon (Chinese Region), [Covestro](#)[†] [\[news\]](#)

Nov. 2019

National *2nd* Prize and Prince-level *1st* Prize in RoboMaster, [DJI Inc.](#)

Aug. 2019

National *3rd* Prize of Chinese Collegiate Computing Competition[†]

Jul. 2019

Honorable Prize of COMAP's Mathematical Modeling Contest (MCM/ICM)[†]

Feb. 2019

2nd Prize of Outstanding Student Scholarship, Tongji Univ.

Nov. 2018

National *2nd* Prize (0.75~3.84%) and Province-level *1st* Prize of Chinese Modeling Contest[†]

Nov. 2018

†: Served as the team leader.

OPEN-SOURCE PROJECTS

Systems: [HyperPose](#) (1k stars), [ThreadPools](#), [JustRelaxFileSystem](#), [TorchFlow](#) (ML snapshot manager)

Computer Vision: [MagicFilter](#) (human matting), [Action Recognition on DVS](#), [Robot Armor Detector](#)

Others: [Bimulator](#) (simulation, ray tracing, and OpenGL pipeline), [Research Reading](#), [Computer Science Notes](#)

I also contributed to open-source ML systems like [TensorFlow](#) and [TVM](#). Please check my [GitHub Profile](#) for details.

SKILL STACK

Proficient in software optimization/engineering, parallel programming, hacking ML systems and ML.

Common: C++ (expert), Python, Go, Rust, Docker, Shell, Git, SQL, \LaTeX , Grafana, LLVM, GDB, Valgrind

High-Perf. Computing: CUDA, C++ Thread Library, Protobuf, gRPC, Kafka, Protobuf, Thrift, OpenMP

Machine Learning Systems: PyTorch, TensorRT, TensorFlow, TVM, ONNX, OpenCV