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Aut inveniam viam aut faciam.
"I'll either find a way or make one."—Hannibal

Education

D-INFK, ETH ZürichZürich, Switzerland

DOCTORATE COMPUTER SCIENCE Sept. 2021 - Jul. 2027

• Thesis supervisor: Prof. Dr. Timothy Roscoe

D-INFK, ETH ZürichZürich, Switzerland

Sept. 2021 - Sept. 2023

Beijing, China Sept. 2017 - Jul. 2021

Beijing, China

Zürich, Switzerland

COMPUTER SCIENCE MSC

Part of the Direct Doctorate in Computer Science program

• Thesis supervisor: Prof. Dr. Torsten Hoefler

School of EECS, Peking University

B.Sc. Computer Science and Technology

"Summa cum laude"; Member of the Turing Class Honor Program
Thesis supervisor: Prof. Yun Liang

Academic Experiences

Scalable Parallel Computing Lab (SPCL) @ ETH Zürich Zürich, Switzerland

Master Thesis (with Prof. Dr. Torsten Hoefler)

Mar. 2023 - Sept. 2023

NetOS, Systems Group @ ETH Zürich Zürich, Switzerland

Semester Project (with Prof. Dr. Timothy Roscoe)

Oct. 2022 - Feb. 2023

Center for Energy-efficient Computing and Applications (CECA) @ PKU

Undergraduate Research (with Prof. Yun Liang)

Dec. 2017 - Jul. 2021

Parallel Systems Architecture Lab (PARSA) @ EPFL

Lausanne, Switzerland (remote)

RESEARCH INTERN (WITH PROF. BABAK FALSAFI)

Jul. 2020 - Jan. 2021

XG Lab @ Alibaba DAMO Academy

Beijing, China

ACADEMIC COLLABORATION (WITH PROF. CHENREN XU & Dr. PENGYU ZHANG)

Sept. 2020 - Jan. 2021

PKU Student Supercomputing Competition Team (PKUSC)

Beijing, China

 TEAM LEADER
 Nov. 2017 - Nov. 2020

Work Experiences

SenseTime Beijing, China

RESEARCH INTERN

Jun. 2019 - Dec. 2019

Teaching Experiences

Advanced Operating Systems, ETH Zürich

ASSISTENZ (TA) Mar. 2024 - Aug. 2024

Advanced Operating Systems, ETH Zürich		Zürich, Switzerland
HILFSASSIS	TENZ (HA)	Mar. 2022 - Aug. 2023
Comput	er Systems, ETH Zürich	Zürich, Switzerland
HILFSASSIS	TENZ (HA)	Sept. 2022 - Feb. 2023
Comput	er Networks (Honor Track), Peking University	Beijing, China
TEACHING /	Assistant (TA)	Sept. 2020 - Feb. 2021
Publi	ications	
Pengche	eng Xu. "Full-System Evaluation of the sPIN In-Network-Compute Architecture"	ETH Zurich
ETH LIBRA		Sept. 2023
Pengcheng Xu. "Enzian Firmware Resource Interface"		ETH Zurich
ETH LIBRA	RY	Feb. 2023
	n, Yuchen Gu, Zhewen Hao, Yueyang Pan, Pengcheng Xu , Yuxuan Yan, Fangyuan Yang,	
	Fu, Yun Liang. "Critique of 'MemXCT: Memory-Centric X-Ray CT Reconstruction With Parallelization' by SCC Team From Peking University"	Journal
	SACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS (TPDS)	Jan. 2022
Qingche	ng Xiao, Size Zheng, Bingzhe Wu, Pengcheng Xu , Xuehai Qian, Yun Liang. "HASCO:	Worldwide
Towards Agile HArdware and Software CO-design for Tensor Computation"		Wonawiae
INTERNATIO	DNAL SYMPOSIUM ON COMPUTER ARCHITECTURE (ISCA)	June 2021
	ieng, Zejia Fan, Jing Mai, Yifan Wu, Pengcheng Xu , Yuxuan Yan, Zhenxin Fu, Yun Liang.	
"Critique of 'Planetary Normal Mode Computation: Parallel Algorithms, Performance, and Reproducibility' by SCC Team From Peking University"		Journal
	SACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS (TPDS)	Jan. 2021
Pengcheng Xu , Yun Liang. "Automatic Code Generation for Rocket Chip RoCC Accelerators"		Virtual Workshop
Fourth W	ORKSHOP ON COMPUTER ARCHITECTURE RESEARCH WITH RISC-V (CARRV 2020), CO-LOCATED WITH ISCA 2020	May 2020
Hono	ors & Awards	
2020	Second Place, Virtual Student Cluster Competition at SC'20	Global Event
2020	 Worked as leader in charge of cloud cluster management and the mystery task Team ranked top on the CESM (Community Earth System Model) application 	Global Evelle
2019	First Prize, ASC Student Supercomputing Challenge 2019	Dalian, China
	• Worked as leader in charge of system install and administration, benchmarks, logistics, and the mystery task	•
2019	SenseTime Scholarship 2019	Beijing, China
2018	Award for Scientific Research, Peking University	Beijing, China
2018	Prize of Excellence, IBM OpenPOWER/CAPI and OpenCAPI Heterogeneous Computing Design Contest	Beijing, China
	Worked to build an FPGA accelerator for <i>BCrypt</i> (widely-used hashing algorithm) on Xilinx UltraScale+ FPGAs Developed on the OpenCAPLEPGA-host platform for high-performance, cloud-oriented acceleration.	

• Developed on the OpenCAPI FPGA-host platform for high-performance, cloud-oriented acceleration

Second Prize, Peking University Collegiate Programming Contest

Accepted & Passed, Google Summer of Code 2018 with Gentoo Foundation

2018

2018

Beijing, China Global Event