Hanmin Li

ABOUT ME

PLACE AND DATE OF BIRTH: Anhui, China | 31 July 1999

ADDRESS: Exploration Avenue, KAUST, 23955, Thuwal, Saudi Arabia

EMAIL: hanmin.li AT kaust.edu.sa

EDUCATION

PRESENT Ph.D. student in Computer Science

King Abdullah University of Science and Technology, Thuwal, Saudi Arabia

Supervisor: Prof. Peter Richtárik

DECEMBER 2022 Master of Engineering in Computer Science

King Abdullah University of Science and Technology, Thuwal, Saudi Arabia

Major: Computer Science

Department: Computer, Electrical and Mathematical Sciences and Engineering

GPA: 3.86/4.00

JULY 2021 Bachelor of Engineering in Computer Science and Technology

University of Science and Technology of China (USTC), Hefei, Anhui, China

Major: Computer Science and Technology Department: School of Gifted Young

GPA: 3.64/4.30

AUGUST 2018 Summer School Student

University of Texas at Austin, Austin, Texas Major: Computer Science (Software Engineering)

PUBLICATIONS AND PREPRINTS

PREPRINT "On the Convergence of FedProx with Extrapolation and Inexact Prox"

Hanmin Li and Peter Richtárik.

arXiv preprint arXiv:2410.01410 OCT, 2024.

Conference "The Power of Extrapolation in Federated Learning"

Hanmin Li, Kirill Acharva, and Peter Richtárik.

Conference on Neural Information Processing Systems, 2024

PREPRINT "Variance Reduced Distributed Non-Convex Optimization Using Matrix Stepsizes"

Hanmin Li, Avetik Karagulyan, and Peter Richtárik.

arXiv preprint arXiv:2310.04614 Oct, 2023.

CONFERENCE "Det-CGD: Compressed Gradient Descent with Matrix Stepsizes for Non-Convex

Optimization"

Hanmin Li, Avetik Karagulyan, and Peter Richtárik.

International Conference on Learning Representations 2024.

JOURNAL "SD²: spatially resolved transcriptomics deconvolution through integration of

dropout and spatial information" Haoyang Li, Hanmin Li, Juexiao Zhou, Xin Gao.

Bioinformatics, 38(21), pp.4878-4884. SEPTEMBER, 2022.

INVITED TALKS

7 May 2024, Vienna, Austria International Conference on Learning Representations, Poster

"Det-CGD: Compressed Gradient Descent with Matrix Stepsizes

for Non-Convex Optimization".

26 June 2024, Lund, Sweden EURO working group on Continuous Optimization

"Compressed Gradient Descent with Matrix Stepsizes for

Non-Convex Optimization".

REVIEW SERVICES

Reviewer: NeurIPS 24', NeurIPS OPT 24', ICLR 25', IEEE Transactions on Signal Processing, Journal of Machine Learning Research.

WORK EXPERIENCE

JAN 2021 - JUNE 2021 | Research Intern at QULAB/USTC

Supervised by Prof. Kun Qu

SEPT 2019 - MARCH 2019 | Research Intern at USTC

Supervised by Prof. Yongkun Li

SCHOLARSHIPS AND CERTIFICATES

SEPT. 2024	Marked as "outstanding" in the Ph.D. student yearly evaluation
	by my advisor Prof. Peter Richtárik. KAUST

by my davisor from recei kientarik. Kvost

Sept. 2023 Marked as "outstanding" in the Ph.D. student yearly evaluation

by my advisor Prof. Peter Richtárik. KAUST

SEPT. 2019 Scholarship for outstanding students (top % 20 students)

School of Gifted Young, USTC

SEPT. 2018 Scholarship for outstanding students (top % 20 students)

School of Gifted Young, USTC

SEPT. 2017 Scholarship for Shitsan Pai class of talented students, (top % 10 students)

University of Science and Technology of China

SEPTEMBER 2019 TOEFL®: 110 (READING:30; LISTENING:30; SPEAKING:23; WRITING:27)

FEBRUARY 2018 GRE®: 333 (VERBAL:163; QUANTITATIVE:170; AW:3,5)

LANGUAGES

CHINESE: Mothertongue

ENGLISH: Fluent

COMPUTER SKILLS

Proficient C++, Python, PyTorch, R, Linux.