

JAEWOOK LEE

Personal Information

ADDRESS	Kim Jaechul Graduate School of AI, Korea Advanced Institute of Science and Technology, 85 Hoegi-ro, Dongdaemun-gu, Seoul, South Korea	PHONE	+82-10-3539-1857
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Education

CURRENT	Korea Advanced Institute of Science and Technology M.S. in Artificial Intelligence GPA: 4.25 / 4.3 (<i>Current</i>)	Seoul, South Korea
FEB 2023	Korea Advanced Institute of Science and Technology B.S. in Electrical Engineering & Mathematical Sciences (<i>Double Major</i>) GPA: 4.07 / 4.3, SUMMA CUM LAUDE <i>Graduated with Excellence in Leadership and Volunteer Activity</i>	Daejeon, South Korea
FEB 2018	Sejong Science High School	Seoul, South Korea

Research Interests

- Optimization
 - Convex & Minimax Optimization
 - (Block) Coordinate Descent Algorithms
 - Wasserstein Gradient Flows & Algorithms
- ML/DL Theory
 - Generalization Bounds of Learning Algorithms
 - Implicit Bias & Dynamics of Deep Learning Optimizers

Publications

- [1] **Jaewook Lee***, Hanseul Cho*, Chulhee Yun. Fundamental Benefit of Alternating Updates in Minimax Optimization. *Proceedings of the 41st International Conference on Machine Learning (ICML)*, 2024. **Spotlight**.
- [2] Jaeyoung Cha, **Jaewook Lee**, Chulhee Yun. Tighter Lower Bounds for Shuffling SGD: Random Permutations and Beyond. *Proceedings of the 40th International Conference on Machine Learning (ICML)*, 2023. **Oral**.

*Equal Contribution.

Awards & Honors

FALL 2021	KAIST MAS, PoW (Math Problem of the Week) - 3 rd Prize
SPRING 2021	KAIST EE, Dean's List Award
FALL 2020	KAIST, Honor Student
FALL 2020	KAIST EE, Academic Excellence Scholarship
FALL 2020	KAIST EE, Dean's List Award
FALL 2019	KAIST EE, Dean's List Award
FALL 2018	KAIST, Freshman Dean's List Award

Professional Services

Reviewer. NeurIPS 2024, JMLR 2024

Teaching Experience

KAIST Freshman Tutoring Program. General Physics I (2019 Spring), Calculus II (2020 Fall)

Skills

Languages: English (*Highly Proficient, TOEIC 985/990*), Korean (*Native*)

Computer Languages: Python (PyTorch Libraries), MATLAB, \LaTeX

Extracurricular Activities

2018-2022 **KAIST Orchestra** First Violinist
2019 **KAIST Orchestra** Concertmaster
2018-2021 **KAIST EDGE** (*Table Tennis Club*) Member
2018-2019 **KAIST FSC** (*Freshman Student Council*)
2019-2020 **KAIST FEEL** (*EE Conference Camp*) Program Director
2020 **KAIST 50th Anniversary Conference “Pioneers: 2071”**
Program Director, Scenario Author & Assistant MC
2020 **KAIST UA** Bureau of Welfare & Bureau of International Affairs
2021 **KAIST UA** Executive Secretariat
2020-2022 **KAIST CGC** (*Communication Globalization Committee*), Translator