

JAEWOOK LEE

Curriculum Vitae

Personal Information

ADDRESS School of Electrical Engineering,
Korea Advanced Institute of Science and Technology,
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Education

CURRENT Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea
B.S., Electrical Engineering & Mathematical Sciences (*Double Major*)
GPA: 4.09 / 4.3 (*Current*)

FEB 2018 Sejong Science High School, Seoul, Republic of Korea

Research Interests

- Machine Learning / Deep Learning Theory
- Optimization Algorithms & Convergence Analysis
- Probability, Statistics, and Applications to Machine Learning
- Information Theory and Applications to Machine Learning
- Graphs and GNNs

Experiences

Optimization & Machine Learning and Intelligence Lab (OptiML Lab), KAIST GSAI JUN 2022 – CURRENT

Advisor: Prof. Chulhee Yun (Graduate School of AI, KAIST)

- Studying worst-case convergence lower bounds of gradient-based optimization algorithms

Machine Learning & Intelligence Lab (MLILAB), KAIST GSAI JUL 2021 – MAR 2022

Advisor: Prof. Eunho Yang (Graduate School of AI, KAIST)

- Studied video generation models based on 3D morphable face models and neural renderers
- Participated in the MLILAB weekly group paper study (*paper reading & implementing*)

Information Systems Lab (ISL), KAIST EE JAN 2021 – JUN 2021

Advisor: Prof. Changho Suh (School of EE, KAIST)

- Studied algorithms and theoretical limits for matrix completion problems with graph side information

Inference & Information for Data Science Lab (IIDS Lab), KAIST EE JUL 2020 – DEC 2020

Advisor: Prof. Hye Won Chung (School of EE, KAIST)

- Studied information-theoretical limits of vertex matching problems in noisy graph isomorphism problems
- Studied properties and theorems related to planted clique models and stochastic block models

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

Skills

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

Computer Languages: Python (PyTorch Libraries), MATLAB, L^AT_EX (*Proficient*)
C, C++, Verilog, ROS, HTML/CSS (*Intermediate*)

Extracurricular Activities

2018-2022	KAIST Orchestra First Violinist
2019	KAIST Orchestra Concertmaster
2018-2019, 2021	KAIST EDGE (<i>Table Tennis Club</i>) Member
2018-2019	KAIST FSC (<i>Freshman Student Council</i>)
2019-2020	KAIST Freshman Tutoring Program Tutor <i>General Physics I (2019 Spring), Calculus II (2020 Fall)</i>
2019-2020	KAIST FEEL (<i>EE Conference Camp</i>) Program Director
2020	KAIST 50 th Anniversary Conference “Pioneers: 2071” <i>Program Director, Scenario Author & Assistant MC</i>
2020	KAIST UA Bureau of Welfare & Bureau of International Affairs
2021	KAIST UA Executive Secretariat
2020-2022	KAIST CGC (<i>Communication Globalization Committee</i>), Translator