JAEWOOK LEE
Curriculum Vitae

Personal Information

ADDRESS   School of Electrical Engineering,
Korea Advanced Institute of Science and Technology,
291 Daehak-ro, Yuseong-gu, Daejeon, Korea

PHONE   +82-10-3539-1857
EMAIL   99rma37 (at) kaist.ac.kr
WEBSITE   id8198.github.io

Education

AUG 2022   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*) [GRADE REPORT]

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

Research 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)**: 3rd 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, LaTeX (*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** (*Table Tennis Club*) Member
2018-2019	**KAIST FSC** (*Freshman Student Council*)
2019-2020	**KAIST Freshman Tutoring Program,** Tutor
	General Physics I (*2019 Spring*), *Calculus II* (*2020 Fall*)
2019-2020	**KAIST FEEL,** EE Conference 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

Grade Report

B.S. in EE & MAS, KAIST

CODE	SUBJECT	GRADE	CREDIT
MAS101	Calculus I (AP)	S	3
MAS102	Calculus II	A+	3
MAS109	Introduction To Linear Algebra	A+	3
MAS201	Differential Equations and Applications	A+	3
MAS250	Probability and Statistics	A+	3
PH141	General Physics I	A+	3
PH142	General Physics II	A+	3
PH151	General Physics Lab I	A+	1
CS101	Introduction to Programming	B+	3
CH101	General Chemisty I	A+	3
CH102	General Chemisty Lab I	A0	1
BS120	General Biology	A+	3
—	*English: Waiver (Mock TOEFL)*	S	4
HSS001	Logical Writing	A+	3
HSS186	Understanding Music & Music History	A+	3
HSS190	Freshman Seminar	S	1
HSS295	Contemporary Social Theory	A+	3
HSS375	20th Century East Asian Art	A-	3
EE201	Circuit Theory	A+	3
EE202	Signals and Systems	A0	3
EE204	Electromagnetics I	A+	3
EE209	Programming Structure for Electrical Engineering	B+	3
EE210	Probability and Introductory Random Processes	A+	3
EE303	Digital System Design	A0	3
EE305	Introduction to Electronics Design Lab	A+	3
EE321	Communication Engineering	A+	3
EE326	Introduction to Information Theory and Coding	A-	3
EE405	Electronics Design Lab:		
	<BUILDING AI-EMPOWERED AUTONOMOUS CARS>	A+	3
EE424	Introduction to Optimization Techniques	A+	3
EE432	Digital Signal Processing	A0	3
EE485	Special Topics in Electronic Engineering: <MY EE I>	A0	1
EE485	Special Topics in Electronic Engineering: <MY EE II>	A+	1
EE488	Special Topics in Electronic Engineering:		
	<MACHINE LEARNING BASICS AND PRACTICES>	A+	3
EE623	Information Theory (*Graduate Course*)	A0	3
MAS210	Introduction to Number Theory	A-	3
MAS212	Linear Algebra	A+	3
MAS241	Analysis I	A0	4
MAS242	Analysis II	A-	4
MAS311	Modern Algebra I	A0	4
MAS350	Elementary Probability Theory	A+	3
MAS355	Mathematical Statistics	A+	3
MAS365	Introduction to Numerical Analysis	A+	4
MAS441	Lebesgue Integral Theory	B0	3
MAS477	Introduction to Graph Theory	S	3
AI501	Machine Learning for AI (*Graduate Course*)	S	3
AI505	Optimization for AI (*Graduate Course*)	S	3
EE495-EF	Individual Study (*Prof. Hyewon Jung*)	S	2
EE495-DS	Individual Study (*Prof. Changho Suh*)	S	2
CS495-CV	Individual Study (*Prof. Eunho Yang*)	S	2
	TOTAL GPA & CREDIT	4.09	139