

# JAEWOOK LEE

## Curriculum Vitae

### Personal Information

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ADDRESS School of Electrical Engineering,  
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### Education

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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

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**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

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FALL 2021 KAIST MAS, PoW (Math Problem of the Week): 3<sup>rd</sup> 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

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

**Computer Languages:** Python (PyTorch Libraries), MATLAB, L<sup>A</sup>T<sub>E</sub>X (*Proficient*)  
C, C++, Verilog, ROS, HTML/CSS (*Intermediate*)

## Extracurricular Activities

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2018-2022	<b>KAIST Orchestra</b> , First Violinist
2019	<b>KAIST Orchestra</b> , Concertmaster
2018-2019, 2021	<b>KAIST EDGE</b> ( <i>Table Tennis Club</i> ) Member
2018-2019	<b>KAIST FSC</b> ( <i>Freshman Student Council</i> )
2019-2020	<b>KAIST Freshman Tutoring Program</b> , Tutor <i>General Physics I (2019 Spring), Calculus II (2020 Fall)</i>
2019-2020	<b>KAIST FEEL</b> , EE Conference Program Director
2020	<b>KAIST 50th Anniversary Conference</b> , <a href="#">[Pioneers: 2071]</a> <i>Program Director, Scenario Author &amp; Assistant MC</i>
2020	<b>KAIST UA</b> , Bureau of Welfare & Bureau of International Affairs
2021	<b>KAIST UA</b> , Executive Secretariat
2020-2022	<b>KAIST CGC</b> ( <i>Communication Globalization Committee</i> ), 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 Chemistry I	A+	3
CH102	General Chemistry Lab I	A0	1
BS120	General Biology	A+	3
—	<i>English: Waiver (Mock TOEFL)</i>	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 ( <i>Graduate Course</i> )	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 ( <i>Graduate Course</i> )	S	3
AI505	Optimization for AI ( <i>Graduate Course</i> )	S	3
EE495-EF	Individual Study ( <i>Prof. Hyewon Jung</i> )	S	2
EE495-DS	Individual Study ( <i>Prof. Changho Suh</i> )	S	2
CS495-CV	Individual Study ( <i>Prof. Eunho Yang</i> )	S	2
TOTAL GPA & CREDIT		4.09	139