

# MinJae Kim

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## Education

### Korea Advanced Institute of Science and Technology(KAIST)

Daejeon, Korea

UNDERGRADUATE, DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

Feb. 2019 - Present

- KAIST Presidential Fellowship(2021 - Present), Honor Student(Mar. 2021 - Present)
- Total GPA of 4.23/4.3 (99.22/100), Total credits: 114/136
- Served Korean military duty(Mar. 2021 - Sep. 2022)

## Research Experience

### Next-Generation Optoelectronic Nanomaterials Lab., KAIST

Daejeon, Korea

UNDERGRADUATE RESEARCHER(ADVISOR: PROF. HIMCHAN CHO)

Jul. 2022 - Present

- Project title: Development of highly luminescent and stable quasi-2D perovskites based on multi-functional asymmetric spacers
- Devised and validated the 3rd-generation geometrically and electronically asymmetric spacer for Dion-Jacobson phase quasi-2D perovskite

### PLatforms Utilizing nano-Structures Lab., KAIST

Daejeon, Korea

UNDERGRADUATE RESEARCHER(ADVISOR: PROF. JIHYEON YEOM)

Dec. 2020 - Feb. 2021

- Project title: Facile synthesis of chiroptical magnetite nanoparticle using mandelic acid
- Designed synthesis of novel chiral magnetite nanoparticles using enantiomeric mandelic acids and glutamic acid, eventually showed  $\alpha$ -hydroxy acid plays a significant role in binding
- Performed circular dichroism(CD) measurements and analyzed the relative strength of interaction between chiral molecules and nanoparticles via deconvolution

## Presentation

### Stockholm International Youth Science Seminar

On-line

NATIONAL DELEGATE OF SOUTH KOREA, NOBEL CEREMONY GUEST

Dec. 2020

- Title: Application of PEDOT:PSS Thin Film Fabricated via Hot-casting as Hole Transport Layer of Perovskite Solar Cell(oral, on-line)[Abstract][Presentation]

## Honors & Awards(Selected)

### SCHOLARSHIPS

2023	<b>Department Top 3 Scholarship</b> , KAIST	Daejeon, Korea
2023	<b>Woonhae Scholarship</b> , Woonhae Foundation	Changwon, Korea
2022	<b>Dream Supporter Scholarship</b> , Global Hansang Dream Foundation	Ulsan, Korea
2021	<b>KAIST Presidential Fellowship</b> , KAIST	Daejeon, Korea
2020	<b>Department Top Honor Scholarship</b> , KAIST	Daejeon, Korea
2019	<b>National Presidential Science Scholarship</b> , Korea Student Aid Foundation	Seoul, Korea

### HONORS

2023	<b>Young Future Energy Leader</b> , Khalifa University	Abu Dhabi, UAE
2023	<b>Representative of KAIST</b> , Young Engineers Honor Society, National Academy of Engineering of Korea	Seoul, Korea
2022	<b>National Delegate</b> , Asian Students' Venture Forum	Seoul, Korea
2020	<b>National Delegate and Nobel Ceremony Guest</b> , Stockholm International Youth Science Seminar(SIYSS)	On-line
2020	<b>Cadet of Research Officer for National Defense</b> , Ministry of Science and ICT	Seoul, Korea
2020	<b>Young Engineers Honor Society</b> , National Academy of Engineering of Korea	Seoul, Korea

### AWARDS

2023	<b>Global Leadership Award</b> , KAIST	Daejeon, Korea
2022	<b>Dean's List(2022 Fall)</b> , College of Engineering, KAIST	Daejeon, Korea
2022	<b>Bronze Award</b> , Asian Students' Venture Forum	Seoul, Korea
2021	<b>Talent Award of Korea</b> , Ministry of Education	Seoul, Korea

2021 **Youth Hero Prize**, Korea Scout Association  
 2020 **Dean's List(2020 Spring, 2020 Fall)**, College of Engineering, KAIST  
 2020 **Excellence in Mentorship Award**, Samsung Welfare Foundation  
 2019 **Dean's List(2019 Fall)**, School of Freshmen, KAIST

*Seoul, Korea*  
*Daejeon, Korea*  
*Ansan, Korea*  
*Daejeon, Korea*

## Extracurricular Activity

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### KAIST Center for Excellence in Learning and Teaching

*Daejeon, Korea*

SPECIAL LECTURER

*Nov. 2022*

- Presented tips for undergraduate and graduate freshmen(KAIST Tip Talk program)
- [Lecture Video]

### Young Engineers Honor Society, National Academy of Engineering of Korea

*Seoul, Korea*

REPRESENTATIVE OF KAIST, FULL MEMBER(REGISTRATION NO. Y34-14)

*Sep. 2020 – Present*

- Served the representative of KAIST(Jan. 2023 - Present)
- Outreached for high school students for special lectures on college admission and majoring
- Developed educational contents for outreach

### Board of Audit and Inspection, KAIST Undergraduate Association

*Daejeon, Korea*

INSPECTION COMMISSIONER

*Apr. 2019 – May 2020*

- Served as President, Oct. 2019 – May 2020
- Enacted inspection forms, revised manual, legislated rules for field audit
- Composed audit reports of organizations, reported to undergraduate student assembly