

JU EUN YIM

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RESEARCH INTERESTS

- ✚ **Materials & Inorganic Chemistry:** synthesis of solid-state heterogeneous catalyst and semiconductors, atomic-scale surface characterization, understanding kinetics, and thermodynamics of energy conversion and storage mechanisms
- ✚ Other energy & environmental issues: developing robust and environmentally benign polymers, maximizing solar-to-electrical and solar-to-heat conversion efficiency, securing stable, cheap, and clean water

EDUCATION

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| Mar. 2019 – Present | EWHA WOMANS UNIVERSITY
<i>MSc student</i>
• Majored in Inorganic Chemistry (Mar. 2019-Aug. 2019), Dept. of Chemistry & Nano Science
• Relevant Coursework: Electrochemistry, Solid State Chemistry (Current total GPA of 4.30 out of 4.30)
• Taking a temporary break for research at KIST (Sep. 2019 – Present) | Seoul, Korea |
| Mar. 2015 – Feb. 2019 | EWHA WOMANS UNIVERSITY
<i>Bachelor of Science & Bachelor of Arts</i>
• Graduated with a GPA of 4.23 out of 4.30 (<i>SUMMA CUM LAUDE</i>)
• Specializations in Chemistry & Nano Science and Digital Humanities (self-designed double major in Scranton Honors Program, took courses from psychology, economics, and programming majors and science-related discussion courses in English)

• Awarded Scholarships for seven out of eight semesters
• Awarded 3 rd Prize, Ewha 130 th Anniversary Promotion Idea Contest (For colorful decagram emblem presenting ever-growing spirit, designed using Adobe Illustrator)

• Relevant Coursework: General Chemistry I, II, and Laboratory Work I, Organic Chemistry I, II and Laboratory I, II, General Physics, Physical Chemistry I, II and Physical Methods in Chemistry I (Laboratory), Mathematics II, Engineering Mathematics, Inorganic Chemistry I, II, Biochemistry I, Polymer Chemistry I, Instrumental Analysis (Analytical Chemistry) | Seoul, Korea |
| Feb. 2017 – Jul. 2017 | UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA
• Study abroad program, Engineering department | Wels, Austria |

THESIS & JOURNAL ARTICLE

Effect of NH₃ gas treatment temperature on the morphology and oxygen reduction electrocatalytic performance of TiO_{1-x}N_x nanosheets

- Graduation Thesis for Chemistry & Nano Science, Feb. 2019

A Comparison Study on Competitiveness of Bioplastic Categories, ATE, v.9 (2019), 149-176

- Double major thesis selected for publication in journal of Scranton Honors Program, *Alpha-Tau-Epsilon*, Feb. 2019

RESEARCH & LEADERSHIP EXPERIENCE

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| Sep. 2019 – Present | KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY (KIST)
<i>Research Assistant, Center of Water Resources Cycle Research</i>
• Participated in VKIST project: Vietnam-KIST joint research project on water management and application in Mekong delta region, Vietnam
• Synthesizing inorganic-polymer membranes to improve efficiency of membrane distillation
• Learned electrospraying, contact angle measurement, and diffuse reflectance spectrometer | Seoul, Korea |
| Dec. 2018 – Jun. 2019 | EWHA WOMANS UNIVERSITY
<i>MSc student, Advanced Nanomaterials Laboratory 21</i>
• Developed low-cost Hydrogen Evolution Reaction catalysts by synthesizing platinum nanoparticles anchored on TiO _{1-x} N _x 2D nanosheets
• Learned various characterization tools: SEM, powder X-ray diffraction, RRDE-3A, Zeta-potential, UV-Vis spectrometer, and EDX | Seoul, Korea |

Jul. 2018 – Aug. 2018	EWHA WOMANS UNIVERSITY <i>Summer Undergraduate Research Intern, Advanced Nanomaterials Laboratory 21</i> <ul style="list-style-type: none"> Collaborated with Dr. Seung Mi Oh to probe relationship between temperature of NH₃ gas treatment and morphology of TiO_{1-x}N_x nanosheets and tested Oxygen Reduction Reaction catalytic performance with RRDE-3A Characterized nanosheets with SEM, TEM, and powder XRD 	Seoul, Korea
Aug. 1-5, 2016	12th International Conference for the Integration of Science, Technology, and Society Korea Advanced Institute of Science and Technology (KAIST) <i>Team Leader</i> of five students from KAIST, UNIST, Korea University, USA, and Ghana <ul style="list-style-type: none"> Poster Presentation: ‘Increase Connection, Decrease Depression by MeetIn,’ - Mobile platform App to connect emotionally depressed high school students with undergraduates majoring psychology department 	Daejeon, Korea
Jul. 2016 – Dec. 2016	EWHA Entrepreneurship Center <i>Startup Reporter, Team Leader</i> <ul style="list-style-type: none"> Interviewed three startup CEOs, wrote seven blog articles, and one magazine article Participated in publishing startup magazine “Fear Cracker” 2nd Ed. 	Seoul, Korea
Sep. 2015 – Feb. 2016	EWHA Career Development Center <i>Supporting staff, Team Leader</i> <ul style="list-style-type: none"> Led ‘Career Consulting/ Clinic’ team of four members to survey undergraduates and make constructive suggestions 	Seoul, Korea
Apr. 2015 – Jun. 2016	Debate Association of EWHA <i>English Debater</i> <ul style="list-style-type: none"> Asian Debate Institute at Joongang University, Korea (Feb. 2016) Kyushu University Debate Workshop, Japan (Jul. 2015) Spring Korea National Championship, Sungkyunkwan University, Korea (May 2015) <i>Adjudicator</i> <ul style="list-style-type: none"> Osan National Student Debate Competition, Osan, Gyeonggi-do, Korea (Aug. 2016) 	Seoul, Korea

TEACHING & VOLUNTEER ACTIVITIES

Jan. 2018 – Jun. 2018	Korea Neungyule Education Institute <i>English & math tutor, part-time job</i> <ul style="list-style-type: none"> Taught two junior high school students for six hours a week 	Seoul, Korea
Dec. 2015 – May. 2016	Human in Love Youth Mentoring Group <i>English mentor, volunteer work</i> <ul style="list-style-type: none"> Taught two underprivileged high school students for three hours a week 	Seoul, Korea
Sep. 2015 – Jun. 2016	Ewha Support Center for Student with disabilities <i>Class Assistant, volunteer work</i> <ul style="list-style-type: none"> Helped students find classroom, get important notifications, and take notes for class One student for one semester each, three hours a week; received National Work-Study Program Scholarship 	Seoul, Korea
Mar. 2015 – May. 2015	Ewha Language Center <i>Korean Student Language Assistant, volunteer work</i> <ul style="list-style-type: none"> Helped Ecuadorian student to adjust at Ewha and learn Korean easily for three hours a week 	Seoul, Korea

SKILLS

Language & Computer	<ul style="list-style-type: none"> Fluent in English (IBT TOEFL: 98, Sep. 2019), Native in Korean, and Basic in Japanese Good at Origin, Sigma Plot, Search-Match, Unitcell, Adobe Illustrator, and Microsoft office Basic in Matlab, Google App Inventor 2
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OTHERS

- Missionary volunteer work to Mongolia and participated in volunteering club at high school
- Monthly donations to NGOs for senior citizens and famine relief
- Doing yoga, baking, calligraphy, and reading books of future trends, psychology, physics, and traveling