Junyong Lee

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EDUCATION

University of California, San Diego Expected Graduation: June, 2026

B.S. in Bioengineering: Bioinformatics | GPA: 4.0/4.0

- **Relevant Coursework**: Linear Algebra, Vector Calculus, Genetics, Organic Chemistry Structural and Design Principles, Mathematics for Algorithms and Systems
- **Received Provost Honors**

SKILLS

Technical skills: Python, Pandas, Microsoft Excel, Java, *EcoPlate* preparation, Gel electrophoresis

Language: English - Native, Korean - Native, Japanese - Native

EXPERIENCE

Saitama University High-grade Global Education Program for Sciences Tokyo, Japan

Research Assistant September 2021 - March 2022

- Investigated the positive association between Branched-chain amino acids (BCAA) and tumor cell growth, and potential influence on cancer treatment.
- Examined that dietary intake of BCAA can elevate chance of pancreatic tumor development by 12%.
- Conducted a review article under the guidance of Professor Kore-eda.
- Awarded the Best Presentation Award from Saitama University professors among 25 selected research members.

PROJECTS

Introductory Biology Lab Presentation Project June 2023

- Designed an experiment for a project on the analysis of **EMG data** to analyze the influence of chemical substances on muscle reaction time.
- Promoted the experimental design via verbal presentation.

***S. cerevisiae* Bioethanol Tolerance Research Project** September 2021 – January 2022

- Developed a research project to investigate the bioethanol tolerance of *S. cerevisiae* to optimize the bioethanol production.
- Enhanced the fructose fermentation rate 36% and examined that *S. cerevisiae*'s bioethanol production peaks at 35.3% v/v.

Biodiesel Fuel Efficiency Optimization Project May 2021 – December 2021

- Designed an experiment to analyze and optimize the transesterification process of the biodiesel production to enhance fuel efficiency.
- Improved the heat energy produced by combustion by 30% while minimizing waste glycerol production.
- Composed a research paper that was published on school chemistry journal.

ACTIVITIES & AWARD

Korean–American Scientists and Engineers Association–Young Generation

Board Member November 2022 — present

- Designed and led the media team to create promotional posters and videos for fundraising and career events.
- Organized and engaged in development of a career fair and resume workshop, attaining approximately 50 participants.