



SEHYUN PARK

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PERSONAL INTERESTS

- Continuum & Soft Robots and Actuators
- Bio-inspired Robots
- Biomedical Robots

SCHOLARSHIP

Hyundai Motor Chung Mong-Koo Foundation Scholarship

Aug 2024

- Full tuition scholarship for undergraduate

Korea–U.S. Advanced Fields Youth Exchange Scholarship

Jan 2025

- Exchange student scholarship (\$18,000)

EDUCATION

Yonsei University

B.S. in Mechanical Engineering
Cumulative GPA: 4.0/4.5

Seoul, Korea
Mar 2021 – Jun 2027

University of California, San Diego

Exchange Student
Cumulative GPA: 4.28/4.5

San Diego, CA
Jan 2025 – Dec 2025

EXPERIENCE

Soft Materials and Biomechanics Lab

Undergraduate Research Assistant

Yonsei University
Jul 2021 – Mar 2022

- Participation in research on microparticle positioning techniques in microchannels using SSAW (Standing Surface Acoustic Waves)

Morimoto Lab

Undergraduate Research Assistant

UC San Diego
May 2025 – Present

- Responsible for fabrication optimization in a catheter-based HCR (Hybrid Continuum Robot) project aimed at reaching the cerebrovascular system
- Participation in pig model preclinical experiments using the HCR, in collaboration with Stanford Medical School
- Independent research on a Contraction Vine Robot (CVR) that achieves contact-aided steering through pressure stimuli

Human-centered AI Robotics Lab

Undergraduate Research Assistant

Yonsei University
Jan 2026 – Present

- Independent research on reducing unintended stiffness in a Layer Jamming Mechanism using porous polymer
- Ongoing independent research on CPG-based adaptive control for a soft quadruped robot

PUBLICATIONS

[Book] S. Park, *Eureka Moment: General Physics*, 2022.

[Book] S. Park, *Eureka Moment: Electromagnetics*, 2023.

[Paper] S. Park, K. Lavarias, S. Kim, and T. K. Morimoto, "Contraction Vine Robots for Contact-Aided Steering," in *Proceedings of the IEEE International Conference on Soft Robotics (RoboSoft)*, 2026.