

JUYEONG HONG

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EDUCATION

- Seoul National University** 09/2022 - present
Integrated Ph.D. in Mechanical Engineering
- [Microfluids and Soft Matter Laboratory](#)
 - Advisor: Prof. Ho-Young Kim
- Gwangju Institute of Science and Technology (GIST)** 03/2018 - 08/2022
B.S. in Mechanical Engineering

RESEARCH INTERESTS

Soft matter physics, Visco-elasticity, Soft robotics

EDUCATION AND TEACHING EXPERIENCE

- Visiting Student**, University of Oxford 02/2025
- Advisor: Prof. Dominic Vella
- Teaching Assistant**, Undergraduate Research Opportunities Program in SNU 07/2024 - 12/2024
- Tutee: Minsoo Park
 - Subject: Indentation of thin shell (analysis, experiment and simulation)
- Teaching Assistant**, Fluid Mechanics in SNU 09/2023 - 12/2023
- Summer Session**, UC Berkeley 06/2019 - 08/2019

CONFERENCE PRESENTATIONS

- [1] Changho Yun, Juyeong Hong, and Ho-Young Kim, Gripping stacked thin flexible objects. In: 2024 KSME Annual Meeting, oral presentation (11/2024)
- [2] [Juyeong Hong*](#), Sungyoon Cho, Youn Hwa Nho, and Ho-Young Kim, Indentation response of skin-like thin viscoelastic multilayer materials. In: The 26th International Congress of Theoretical and Applied Mechanics, poster (08/2024)

SEMINARS

- [1] University of Oxford, Mathematical Institute Student Seminar, *Rolling in dough: Deformation of dough at constant width*, (02/2025).
- [2] University of Oxford, Mathematical Institute Journal Club, *Rolling in dough: Deformation of dough at constant width*, (02/2025).

PATENTS

- [1] Sungyoon Cho, [Juyeong Hong](#) and Ho-Young Kim, Skin viscoelasticity measuring apparatus and skin viscoelasticity measuring method. 10-2023-0088515 KOREA (2023)

RESEARCH PROJECTS

- Research center for metamorphing mechanical systems 03/2024 - present
- Awarding body: National Research Foundation of Korea
- Development of skin elasticity-meter 09/2022 - 10/2024
- Awarding body: COSMAX Inc.

HONORS AND AWARDS

The 3rd Future Home Tech. Challenge Silver Prize KSME-LG	11/2024
Academic Scholarship Seoul National University	02/2022
Academic Scholarship Gwangju Institute of Science and Technology	2019 - 2022
National Science and Technology Scholarship Korea Student Aid Foundation	03/2018

SKILLS AND HOBBIES

Programming Languages	Python, MATLAB
Numerical Simulation Tools	Abaqus, COMSOL
3D Modeling Tools	Fusion 360
Hobbies	Travel, Fitness, Gymnastics