



## Woongbi Cho

Postdoctoral Scholar, Mechanical Engineering

### Bio

---

#### BIO

Woongbi Cho is a postdoctoral scholar in the Department of Mechanical Engineering at Stanford University. He received his B.S. in Polymer Science and Engineering from Inha University in February 2019, and his Ph.D. in Organic and Nano Engineering from Hanyang University in February 2025. His doctoral research focused on developing next-generation polymer composites, emphasizing processing-structure-property-performance (PSPP) relationships in liquid crystalline and sulfur-rich polymers. Currently, Woongbi's research interests center on adaptive materials, electromagnetically (EM)-driven soft robotics, polymer assembly mechanisms, and active metamaterials for applications in soft robotics, optoelectronics, and energy harvesting.

#### HONORS AND AWARDS

- Prof. Choi Sam Kwon Ph.D. Dissertation Award, Polymer Society of Korea (PSK) (2025)
- Ph.D. Dissertation Award, Hanyang University (2025)
- Ph.D. Dissertation Award, The Research Institute of Industrial Science, Hanyang University (2025)
- Excellent Student Oral Presentation Award, The 7th International Conference on Active Materials and Soft Mechatronics (2024 AMSM) (2024)
- Excellent Oral Presentation Award, Polymer Society of Korea (PSK) (2024)
- Outstanding Discussant Award, The 24th Korea Liquid Crystal Conference (2024)
- Excellent Oral Presentation Award, The 23rd Korea Liquid Crystal Conference (2023)

#### PROFESSIONAL EDUCATION

- Ph.D., Hanyang University, Organic and Nano Engineering (2025)
- B.S., Inha University, Polymer Science and Engineering (2019)

#### STANFORD ADVISORS

- Renee Zhao, Postdoctoral Faculty Sponsor

#### LINKS

- LinkedIn: <https://www.linkedin.com/in/woongbi-cho-2461a8254>
- Google Scholar: <https://scholar.google.com/citations?user=oCeRWgoAAAAJ&hl=ko>

## Publications

---

### PUBLICATIONS

- **Physically Intelligent Liquid Crystalline Polymers for Soft Robotics and Shape-Reconfigurable Devices** *ACS APPLIED OPTICAL MATERIALS*  
Hahm, M., Cho, W., Jeon, J., Yang, K., Wie, J.  
2026
- **Light-Fueled In-Operando Shape Reconfiguration, Fixation, and Recovery of Magnetically Actuated Microtextured Covalent Adaptable Networks** *ADVANCED MATERIALS*  
Yoon, Y., Moon, H., Cho, W., Lee, D., Jeong, S., Wie, J., Kim, C.  
2025; 37 (39): e2503161