

Xinyue Wang

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EDUCATION

Johns Hopkins University, Baltimore, United States

Master of Science in Engineering, Mechanical Engineering

August 2023 - Expected May 2025

Zhejiang University, Hangzhou, China

Bachelor of Engineering, Mechanical Engineering

September 2019 - June 2023

PROJECT EXPERIENCE

Johns Hopkins University, Department of Mechanical Engineering

Research Project Member

March 2024 - Present

Advisor: Dr. SJ Claire Hur

- Developing an automated multi-solution exchange system for microfluidic devices

Zhejiang University, School of Mechanical Engineering

Research Project Member

October 2022 – May 2023

Advisor: Dr. Yancheng Wang

- Proposed a method of surface acoustic-assisted photo-curing 3D printing.
- Built an acoustic-assisted 3D printing platform to fabricate fiber-reinforced honeycomb structures.

Publication:

Xin Li, **Xinyue Wang**, Deqing Mei, Chengyao Xu and Yancheng Wang. (2024). Acoustic-Assisted DLP 3D Printing Process for Carbon Nanofiber Reinforced Honeycomb Structures, *Journal of Manufacturing Processes*, 121, 374-381.

Xin Li, Hemin Pan, **Xinyue Wang**, Deqing Mei and Yancheng Wang. (2024). Phase-modulated pulsing coherent acoustic tweezers for dynamic adjustable spaced particle patterning, *Journal of Physics: Conference Series*, 2822, 012147.

Zhejiang University, International Design Institute

Research Program Intern

June - December 2022

Advisor: Dr. Guanyun Wang

- Developed a toolkit for augmenting orthoses with electronics.
- Tested the monitoring performance and mechanical behavior of augmented orthoses.

Publication: Yue Yang, Lei Ren, Chuang Chen, **Xinyue Wang**, Yitao Fan, Yilin Shao, Kuangqi Zhu, Jiaji Li, Qi Wang, Lingyun Sun, Ye Tao, and Guanyun Wang. (2023). E-Orthosis: Augmenting Off-the-Shelf Orthoses with Electronics. *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*, 625, 1–15.

SKILLS

Software: MATLAB, SolidWorks, AutoCAD, C, Python, Arduino, Microsoft Office, Adobe Illustrator

Language: Mandarin (Native), English (Fluent)