

Yingting Gao

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Research Interests: My research investigates how the distinctive properties of biomaterials can be translated into interactive experiences and participatory ecological practices. Using material-driven design, I combine material exploration, prototyping, and community-based studies to examine how people make, use, and live with responsive and growing materials. My future work explores AI-supported design tools that make biomaterial knowledge more accessible and enable broader participation in bio-fabrication.

EDUCATION

Georgia Institute of Technology (Atlanta, GA, USA)

Ph.D. Student, Human Centered Computing

08/2023 - Present

Tsinghua University (Beijing, China)

Master of Fine Arts, Information Art & Design

09/2020 - 06/2023

Central South University (Hunan, China)

Bachelor of Engineering, Metallurgical Engineering

09/2014 - 06/2018

PUBLICATION

- [1] **Yingting Gao**, Jing Xie, Fiona Bell, Alex Cabral, Josiah Hester, HyunJoo Oh. Designing Loofah Wearables For Embodied Ecological Reflection. *Proceedings of the Twentieth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '26)*
- [2] Lingqing Wang, **Yingting Gao**, Chidimma Lois Anyi, Ashok K. Goel. Futuring Social Assemblages: How Enmeshing AIs into Social Life Challenges the Individual and the Interpersonal. *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)* 🏆 **Best Paper Honorable Mention**
- [3] Jing Xie, **Yingting Gao**, Jin Yu, Tingyu Cheng, HyunJoo Oh. 3D Printing Soap: Exploring New Biodegradable Materials and Creative Possibilities. *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)* 🏆 **Special Recognition for Sustainable Practice, Runner-Up**
- [4] Jing Xie, **Yingting Gao**, Jin Yu, Tingyu Cheng, HyunJoo Oh. Interactive 3D-Printed Soap: Exploring Biodegradable and Ephemeral Material Interactions. *Proceedings of the Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems (CHI EA '26)*
- [5] Gaolin Ge, Haoran Lu, **Yingting Gao**, Qifeng Yang, Josiah Hester, Tingyu Cheng, Yiyue Luo. BIOGEM: A Fully Biodegradable Gelatin-Based McKibben Actuator with Embedded Sensing. *Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology (UIST '25)*
- [6] Tingyu Cheng, Zhihan Zhang, Han Huang, **Yingting Gao**, Wei Sun, Gregory D. Abowd, HyunJoo Oh, Josiah Hester. Recy-ctronics: Designing Fully Recyclable Electronics with Varied Form Factors. *arXiv preprint arXiv:2406.09611*. 2024.

[7] Cheng Xue, **Yingting Gao**, Ananda Robin, Jiachen Du, Qian Yao Xu, Xinyi Fu. Meta-home: Smart Home Digital Twin Design from the Perspective of Smart Metaverse. *Proceedings of the Eleventh International Symposium of Chinese CHI (Chinese CHI '23)*

[8] **Yingting Gao**, Yixin Hu, Qi Lu. Cooking Method Detection Based on Electronic Nose in Smart Kitchen. *Journal of Computer-Aided Design & Computer Graphics*, 35(2), 185–194. 2023.

RESEARCH EXPERIENCE

Georgia Institute of Technology

NSF Trainee, Research Assistant 08/2024 - 08/2025

Georgia Institute of Technology

Research Assistant
CodeCraft Group, Ka Moamoa Lab | Advisors: Prof. HyunJoo Oh, Prof. Josiah Hester 08/2023 - 05/2024

Tsinghua University

Research Assistant
Olfactory Computing Group, The Future Laboratory | Advisors: Qi Lu, Prof. Yingqing Xu 10/2020 - 06/2023

- Project I: Multimodal Interaction of Dietary Data
- Project II: Project leader in Smart Home Multimodal Diet Evaluation System
- Project III: Participate in Exploration of the Application of E-Nose in Smart Home Environment

TEACHING EXPERIENCE

Georgia Institute of Technology

- Teaching Assistant for Computing and Sustainability CS 8803 01/2026 - 05/2026
- Teaching Assistant for Health Sensing CS 4711 05/2026 - 08/2026
- Teaching Assistant for Prototyping Interactive Systems CS 6452 08/2024 - 12/2024
- Teaching Assistant for Intro UI Design CS 3751 05/2024 - 08/2024

AWARD AND EXHIBITION

Research Award

- 2026, 🏆 Best Paper Honorable Mention
- 2026, 🏆 Special Recognition for Sustainable Practice, Runner-Up
- 2025, 🏆 Best Poster Presentation Award, GT MSH Center × NSF SUSMED Joint Workshop

Academic Award

- 2025, NSF SUSMED (sustainable smart medical devices) Fellowship
- 2022, Outstanding Graduate Award, Tsinghua University [Top 2%]
- 2021, Graduate Excellence Scholarship, Tsinghua University [Top 10%]

Exhibition

- 2026, Crossing Grounds: Art, Design and Technology, Seoul

PROFESSIONAL SERVICE

Academy Service

- 2026, SUSMED X MOVE Joint Workshop Rapid Talk
- 2025, SUSMED Research Show and Tell session

Reviewer

- ACM DIS 2024, 2026
- ACM CHI2025, 2026
- ACM TEI 2026, 2027
- ACM UIST 2024
- ACM IMWUT 2026
- Design Research Society (DRS) 2026