

# Danniell Hu

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## EDUCATION

### University of Michigan, Rackham Graduate School

PhD, Computer Science, GPA 4.0/4.0

Ann Arbor, MI

Expected Apr. 2028

- KLA Fellowship Recipient, \$45,000

### University of Michigan, College of Engineering

B.S.E. Computer Science, Cum Laude

Ann Arbor, MI

May 2023

## LEADERSHIP & SERVICE

### University of Michigan, CSE Graduate Student Organization (CSEG)

Social Chair

Ann Arbor, MI

August 2025 – Present

- Planned and executed recurring department-wide social events (e.g., weekly Tea Time, seasonal mixers, game nights, and off-campus outings) to strengthen graduate student community and faculty engagement, support student connection, and build meaningful relationships.
- Built ongoing feedback mechanisms with CSEG members and used qualitative and quantitative input to refine programming, improve responsiveness to student needs, and strengthen engagement.
- Advocated for and led the redesign of CSEG website to improve accessibility of resources and initiatives.

## RESEARCH EXPERIENCE

### University of Michigan

Ph.D. Researcher

Ann Arbor, MI

2024 – Present

- Lead research in the field of AI for Social Impact to improve alignment between AI systems and real-world users using methods from requirements engineering and human-centered AI system design.
- Design and execute IRB-approved human-subjects studies to evaluate AI interventions, generating empirical evidence on what improves human-centered AI development practices.
- Develop and apply mixed-methods evaluation frameworks to assess AI systems in real-world settings.
- Translate empirical findings into actionable design insights and methodological contributions that inform human-centered and participatory AI development.

## INDUSTRY EXPERIENCE

### Stryker Corporation – Medical Division, Acute Care

R&D Embedded Software Design Engineer

Kalamazoo, MI

July 2023 – Aug 2024

- Designed embedded software and PCBA hardware for Stryker medical devices, including hospital beds and support surfaces, using ColdFire and Renesas microcontrollers.
- Collaborated seamlessly with cross-functional teams including test lab, quality assurance, hardware, electrical, software, marketing, and leadership, fostering effective communication and project cohesion.
- Actively participated in business trips for customer visits, contributing insights and strengthening client relationships through direct engagement, which led to multi-million dollar sales opportunities.

## SELECTED PUBLICATIONS

- **Hu, Danniell**, Westley Weimer, Elizabeth Bondi-Kelly. "Must Have, Could Have... What? Systems Requirements Factors That Improve Stakeholder-System Fit in AI Development" *In submission to FaccT*
- **Hu, Danniell**, Diana Acosta Navas, Susanne Gaube, et al. "Human at the Center: A Framework for Human-Driven AI Development" *AAAI AI Magazine*, 2025
- **Hu, Danniell**, Priscila Santiesteban, Madeline Endres, et al. "Towards a Cognitive Model of Dynamic Debugging: Does Identifier Construction Matter?" *IEEE Transactions on Software Engineering*, 2024