

Monisola Jayeoba

Ph.D. Candidate — Human-Computer Interaction

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Professional Summary

Human-Centred Design Researcher and Ph.D. Candidate at Northwestern University specializing in **HCI-AI**, UX research, and digital health innovation. Experienced in mixed-methods research to uncover user needs and translate insights into inclusive, data-informed design decisions. Passionate about building products that enhance understanding and trust between people and technology.

Education

- Sept 2022– June 2027 **Ph.D. in Human Computer Interaction**, Northwestern University, Evanston, USA
Expected Graduation Date: June 2027
Advisor: Dr. Maia Jacobs.
GPA: 3.89
- Sept 2021– Aug 2022 **M.Sc. in Design Informatics**, The University of Edinburgh, UK
MasterCard Foundation Scholarship
Dissertation (Distinction): Co-design of a trustworthy medical crowdfunding platform.
- Jan 2014– Mar 2019 **B.Eng. in Computer Engineering**, Federal University Oye-Ekiti, Nigeria
GPA: 4.03/5.00

Publications

- Under Review **Jayeoba, M.** et al. Designing for Autonomous Motivation: A Qualitative Interview Study of Cancer Survivors' Pre-enrollment Preferences for Digital Health Behavior Change Programs. *JMIR*.
- Under Review **Jayeoba, M.** et al. From Clicks to Community: Understanding Stage-Based Engagement in an Online Health Community. *JMIR*.
- 2025 **Jayeoba, M.**, Scherr, C.L., Jacobs, M., et al. Low Burden EHR Strategies for Engaging Oncologists in Digital Health Behavior Change Interventions: Qualitative Interview Study. *JMIR (2025)*. DOI: 10.2196/65975
- 2025 Kerstiens, S., Scherr, C.L., Jacobs, M., Carroll, A. J., Daly, E. R., **Jayeoba, M.**, et al. Speaking of Survival: Oncologists' Approaches to Risk Behavior Conversations with Cancer Survivors. *J Cancer Surviv (2025)*. DOI: 10.1007/s11764-025-01798-1
- 2024 Spring, B., Garcia, S.F., Daly, E., Jacobs, M., **Jayeoba, M.**, et al. Scalable Telehealth Cancer Care: integrated healthy lifestyle program to live well after cancer treatment. *JNCI Monographs*.

Research Experience

- Sept 2022– Pres. **Graduate Researcher, PATH Lab, Northwestern University**, Evanston, IL
DECIDE: Explainable AI for Mental Health
- Led the design of an AI explainability dashboard for pediatricians, translating ML predictions into actionable insights through co-design with 18+ clinicians.
 - Developed bias detection and mitigation features including counterfactual explanations and real-time fairness alerts.

STELLAR: Telehealth for Cancer Survivors

- Conducted semi-structured interviews with 18 oncologists to inform EMR-integrated telemedicine designs.
- Led qualitative study on autonomous motivation, applying Self-Determination Theory to supportive telehealth systems.

AHA Online Support Network Community

- Designed mixed-methods studies ($N = 147$ surveys, $N = 19$ interviews) to explore engagement patterns in the American Heart Association's online community.

Teaching Experience

- Sept 2025–
Dec 2025. **Graduate Teaching Assistant, CS 330: Human-Computer Interaction**, Northwestern
- Co-facilitated interactive labs for 203 students on user research and low-fidelity prototyping.
 - Delivered actionable feedback at design critiques and office hours, co-developed curriculum bridging UX theory with product practice.
- Nov 2021–
Jul 2022 **Data Coach (Part-Time), Students As Change Agents**, The University of Edinburgh
- Mentored 128 students in applying data-for-action and design thinking methodologies to address complex societal challenges.
 - Developed comprehensive curricula, instructional materials, and assessment frameworks for data-centric training courses.
 - Facilitated cross-sector collaborations with partner organizations to apply design thinking to public health challenges:
 - **Chest, Heart, and Stroke Scotland:** Developed strategies for respiratory health and patient self-management.
 - **Data for Children Collaborative:** Explored data-driven interventions to improve pediatric mental health outcomes.
 - **Architected the data foundation for problem-solving sessions:** Sourced, cleaned, and curated complex datasets, presenting strategic justifications to program partners to establish the empirical basis for design thinking interventions.

Professional Experience

- Jun 2019–
July 2021 **UX Researcher & Product Manager, eHealth4everyone**, Abuja, NG
- Led 15-member team to build an immunization record system, reducing vaccine waste by 78%.
 - Managed product roadmap for Smartacare EMR; delivered MVP within 3 months.
 - Co-developed Ddistance (DHIS2 server hosting), onboarding 57 customers within 2 months.
- April 2017–
Sept 2017 **Technical Program Intern, Center4Tech**, Lagos, NG
- Designed user interfaces for blockchain-based financial tools focusing on accessibility and ease of use.
 - Successfully led a new-found STEM Discovery department to train over 100 children (aged 5-7) in STEM
 - Created and deployed successful strategies to recruit over 100 paying customers (parents) and end-customers (children aged 5-7) across 18 pre-schools in Lagos and Abuja, Nigeria.
 - Provided work leadership and in-depth training to 4 other STEM instructors
 - Co-designed comprehensive and pupil-centered instructional manuals and training materials to optimize pupil' education and experience.
 - Fostered pupils' curiosity and interest through creative hands-on activities and leveraged human-centred design approach to gather feedback and improve instructional strategies.
 - Tracked and reported program progress and success metrics.

Leadership and Service

- March 2025–
Pres. **Chair-Elect — National GradSWE Affinity Group**
- Leading strategic initiatives and nationwide engagement programs for women in engineering.

- 2024–2025 **President — Graduate Society of Women Engineers**, *Northwestern*
 - Led a 19-member board and managed a \$17.5K budget for 500+ members.
 - Organized 45+ professional development and outreach programs.
- Sept 2024–**Graduate Resident Assistant — Residential Services**, *Northwestern*
 - Pres. ○ Fostering community for 560+ residents through monthly social and wellness programs.
 - Collaborated with Residential Services to mediate concerns and ensure safety.
- 2023–Pres. **Vice President — African Graduate Student Association**, *Northwestern*
 - Drove a 25% increase in membership engagement; secured \$2K in funding for events.
- 2023–2024. **Vice President — Graduate Society of Women Engineers**, *Northwestern*
 - Supported the president and other board members in planning and executing various events and STEM projects.
- 2016–2017. **Financial Secretary — National Association of Computer Engineering Students**, *Federal University Oye-Ekiti*

Honors & Awards

- 2025–26 SWE/ANSYS Graduate Scholarship, *Society of Women Engineers*
- 2024–25 International Doctoral Fellowship, *American Association of University Women*
- 2023–24 Segal Design Cluster Fellowship, *Northwestern University*
- 2022–23 MasterCard Foundation Scholarship, *University of Edinburgh*
- 2024 Agile Product Management Certification, *ProductSide*
- 2023 Google UX Design Professional Certificate, *Google*
- 2019 Best Graduating Female Student, Faculty of Engineering, *Federal University Oye-Ekiti*

Workshops, Posters, Presentations & Conferences

- April 2025 **CRA-WP Grad Cohort for IDEALS**, *Denver, CO*
Accepted Applicant
- Oct 2024 **Society of Women Engineers Conference (WE24)**, *Chicago, IL*
Attendee: Themed “Together We Rise.”
- April 2024 **CRA-WP Grad Cohort for IDEALS**, *Minneapolis, MN*
Presenter: Improving Patient-Physician Communication in Digitally-led MHBC Intervention: A Qualitative Study in Cancer Survivorship Care.
- Oct 2023 **Society of Women Engineers Conference (WE23)**, *Los Angeles, CA*
Attendee: Themed “Live Without Limits.”
- Oct 2022 **Lambert Conference on the Future of Human Computer Interaction + Design**, *Evanston, IL*
Attendee

Skills Summary

- Languages Python, HTML, CSS, JavaScript
- Research Survey Design, Interviews, Focus Groups, Content Analysis, Ethnography, A/B Testing, Concept Validation, Diary Studies
- Analysis MaxQDA, NVivo, Quirkos, Dedoose, Tableau, Power BI, Jupyter Notebook
- Design Figma, FigJam, Miro, Mural, Canva, Adobe XD
- Management Smartsheet, Jira, Monday, ClickUp, GitHub, Google Cloud Platform