

Lisa Orii

Seattle, WA 98102 | lisaorii@cs.washington.edu | +1781.666.7120 | lisaorii.github.io

SUMMARY

Computer science PhD candidate researching digital health and other digital services in developing countries. Major strengths in applying human-centered methodologies to technology and app design, development, and evaluation in real-world contexts. Leads multidisciplinary and multicultural projects, from obtaining ethics approval to writing manuscripts and presenting at international conferences. Experienced in designing and executing qualitative and quantitative research.

EDUCATION

University of Washington, Seattle, WA, USA

Ph.D. in Computer Science & Engineering

Graduate Certificate in Global Health of Women, Adolescents, and Children

Advisor: Richard Anderson

Sept 2021 – June 2026 (Expected)

Wellesley College, Wellesley, MA, USA

B.A. in Computer Science and Philosophy

Magna Cum Laude, Phi Beta Kappa, Sigma Xi

Advisor: Orit Shaer

Sept 2017 – June 2021

University of Oxford Worcester College, Oxford, UK

Visiting student in Computer Science and Philosophy

Sept 2019 – Dec 2019

PEER-REVIEWED PUBLICATIONS

1. **Lisa Orii**, Elizabeth K. Harrington, Serah Gitome, Nelson Kiprotich Cheruiyot, Elizabeth Anne Bukusi, Sandy Cheng, Ariel Fu, Khushi Khandelwal, Shrimayee Narasimhan, and Richard Anderson. Supporting Contraceptive Decision-Making in the Intermediated Pharmacy Setting in Kenya. Recently accepted to *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25)*.
2. **Lisa Orii**, Kate S. Wilson, Jacqueline Huwa, Christine Kiruthu-Kamamia, Odala Sande, Agness Thawani, Astrid Berner-Rodoreda, Evelyn Viola, Hannock Tweya, Petros Tembo, Wapu Masambuka, Richard Anderson, & Caryl Feldacker. "They gave us the right to choose." A qualitative study of preferences for differentiated service delivery location among recipients of antiretroviral therapy at Lighthouse Trust in Lilongwe Malawi. In *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0296531>
3. Shaan Chopra, **Lisa Orii**, Katherine Juarez, Nussara Tieanklin, James Fogarty, and Sean A. Munson. 2024. Menopause Legacies: Designing to Record and Share Experiences of Menopause Across Generations. In *Proc. ACM Hum.-Comput. Interact (CSCW '24)*. <https://dl.acm.org/doi/10.1145/3686975>
4. **Lisa Orii**, Caryl Feldacker, Jacqueline Madalitso Huwa, Agness Thawani, Evelyn Viola, Christine Kiruthu-Kamamia, Odala Sande, Hannock Tweya, and Richard Anderson. 2024. HIV Client Perspectives on Digital Health in Malawi. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24)*. **Best Paper Honorable Mention (top 5%)** <https://dl.acm.org/doi/full/10.1145/3613904.3642245>
5. **Lisa Orii**, Caryl Feldacker, Hannock Tweya, Richard Anderson. eHealth Data Security and Privacy: Perspectives from Diverse Stakeholders in Malawi. In *Proc. ACM Hum.-Comput. Interact (CSCW '24)*. <https://dl.acm.org/doi/10.1145/3637323>
6. **Lisa Orii**, Nami Ogawa, Yuji Hatada, and Takuji Narumi. 2022. Designing for Speech Practice Systems: How Do User-Controlled Voice Manipulation and Model Speakers Impact Self-Perceptions of Voice? In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. <https://doi.org/10.1145/3491102.3502093>
7. **Lisa Orii**, Diana Tosca, Andrew L Kun, and Orit Shaer. 2021. Perceptions of Trucking Automation: Insights from the r/Truckers Community. In *13th International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI '21)*. <https://doi.org/10.1145/3409118.3475154>
8. **Lisa Orii**, Diana Tosca, Andrew L Kun, and Orit Shaer. 2021. Perceptions on the Future of Automation in r/Truckers. In *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA '21)*. <https://doi.org/10.1145/3411763.3451637>
9. **Lisa Orii**, Luis Alonso, Kent Larson. 2020. Methodology for Establishing Well-Being Urban Indicators at the District Level to be Used on the CityScope Platform. In *Sustainability*. <https://doi.org/10.3390/su12229458>

Di Jin, Zhijing Jin, Joey Tianyi Zhou, **Lisa Orie**, and Peter Szolovits. Hooks in the Headline: Learning to Generate Headlines with Controlled Styles. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)*. <https://doi.org/10.18653/v1/2020.acl-main.456>

EXPERIENCE

UNIVERSITY OF WASHINGTON, Seattle, WA, USA

Sept 2021 – Present

Graduate Teaching Assistant

Jan 2024 – Present

Provided teaching support for graduate- and undergraduate-level courses in computer science.

- Led lecture review sections for 25 undergrads and created assignments/exercises for Data Programming, Introductory Python.
- Mentored and graded course projects: Computing for Social Good (30 grads); Capstone Software Design to Empower Underserved Populations (30 undergrads); Human-Computer Interaction (35 undergrads).

Graduate Research Assistant

Sept 2021 – Present

Led digital health and digital finance projects in Malawi, Kenya, and Nigeria in collaboration with local researchers, incorporating stakeholder experiences into technical improvements and policy recommendations.

- Planned and conducted qualitative studies with 75 stakeholders of Malawi's HIV care program to investigate security gaps and opportunities for a mobile medical record system.
- Managed 5 software engineers for 1 year to develop an Android app for Kenyan pharmacies that supports contraceptive decision-making for young women; planned/facilitated 4 human-centered design workshops to gather app feedback from 45 participants in Kenya; analyzed 100 user sessions from a 3-month app pilot in pharmacies.
- Conducted statistical analysis of transaction failure rates of 49,000 USSD-based financial transactions from a 1-month deployment in Nigeria; generated data visualizations using Python and R.

PARASAIYO, Tokyo, Japan; Naic, The Philippines

May 2015 – Present

Member

Member of a Japanese volunteer group that makes annual visits to the Philippines to support higher education of orphaned children.

- Developed a cultural exchange program for high school students in the orphanage.
- Mentored 2 interns to develop a high school curriculum that included personal assessments to identify future career opportunities.
- Mentored 6 high school students to conduct research and propose solutions for socio-economic challenges in the Philippines.

PATH, Seattle, WA, USA

Apr 2024 – Sept 2024

Intern

Made recommendations for digital information systems that integrate human milk banking and lactation support in developing countries.

- Defined data dictionary to track human milk donations from donor to recipient and track adverse events.
- Conducted literature review on integrating human milk banking and lactation support in developing countries; compared business processes and workflows between human milk banking and blood banking to identify data requirements; conducted gap analysis of human milk banks; defined generic personas per the WHO Digital Adaptation Kit to identify stakeholders in human milk banking and lactation support.
- Contributed to writing a concept note and presentation materials.

UNIVERSITY OF TOKYO, Tokyo, Japan

Apr 2020 – May 2022

Undergraduate Research Intern

Led investigation on the impact of listening to speech role models and voice manipulation on the self-perception of voice.

- Designed and executed user study with 18 participants using mixed methods.

MIT MEDIA LAB, Cambridge, MA, USA

Feb 2019 – June 2021

Undergraduate Research Assistant

Assisted projects in the City Science and Space Enabled Groups.

- City Science Group: Developed an index of 5 urban indicators to describe urban attributes that enhance well-being.
- Space Enabled Group: Designed and engineered a sensor kit using Arduino to monitor the health ecosystem in Benin with low-cost sensors, wireless data transmission, and rechargeable solar battery; mapped vegetation growth of an invasive plant species in Benin to predict future growth using Geographic Information System mapping.

WELLESLEY COLLEGE, Wellesley, MA, USA

Sept 2020 – Sept 2021

Undergraduate Research Assistant

Led investigation on truck drivers' perceptions on automation.

- Scraped 109 posts from the r/Truckers subreddit to conduct thematic analysis on 3000 comments.
- Visualized frequency of keywords by time.

SKILLS

Languages	English (native), Japanese (native)
Programming Languages	Python (advanced), R (advanced), Dart (intermediate), Java (intermediate), HTML/CSS/JavaScript (intermediate)
Computer Tools	Microsoft Office (advanced), ATLAS.ti (advanced), Figma (intermediate), Flutter (intermediate), ArcGIS (intermediate)
Research Methods & Analysis	Android app development, Human-centered design, Wireframing, Storyboarding, Prototyping, Co-design, Speculative design, User study, Usability testing, Key informant interviews, Focus group discussions, Survey design, Experimental design, Qualitative analysis, Quantitative analysis, Mixed-methods

HONORS & AWARDS

ACM CHI 2024 Best Paper Honorable Mention (top 5%)	2024
Wellesley College Horton-Hallowell Fellowship	2024
University of Washington Global Innovation Fund Tier 2 Research Award	2022
Quad Fellowship	2020
MIT Technology Review's Innovators Under 35 Japan	2020
Funai Overseas Scholarship	2020
Grace Hopper Celebration 2020 Scholarship	2020
Japan Student Services Organization (JASSO) Undergraduate Scholarship	2017
Grew Bancroft Foundation Scholarship	2017
Kanazawa Iwao Memorial Foundation Scholarship	2017

ACADEMIC SERVICE

Reviewing	
ACM CHI Conference on Human Factors in Computing Systems (CHI)	2023 – Present
Proceedings of the ACM on Human-Computer Interaction (PACM HCI), CSCW	2023 – Present
Organization	
UW Change Seminar Co-Organizer	2022 – 2024
UW ICTD Seminar Co-Organizer	2022 – 2024
UW CSE Prospective Student Committee Co-Chair	2023 – 2024
UW Pre-Application Mentorship Service Volunteer	2021 – 2024
Conference Volunteering	
ICTD 2022 Student Volunteer Chair	2022
ACM COMPASS 2022 Student Volunteer	2022
Automotive UI 2021 Student Volunteer	2021