

Lisa Orie

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SUMMARY

Computer science PhD candidate researching digital health and other digital services in developing countries. Major strengths in applying human-centered methodologies to technology design, development, and evaluation in real-world contexts. Leads multidisciplinary projects with international partners, from obtaining ethics approval to writing papers and presenting at international conferences. Experienced in designing and conducting 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 Orie**, 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. In *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25)*. <https://dl.acm.org/doi/10.1145/3706598.3713508>
2. **Lisa Orie**, 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 Orie**, Katherine Juarez, Nussara Tieanklin, James Fogarty, and Sean A. Munson. 2024. Menopause Legacies: Designing to Record and Share Experiences of Menopause Across Generations. In *Proceedings of the ACM on Human-Computer Interaction (CSCW '24)*. <https://dl.acm.org/doi/10.1145/3686975>
4. **Lisa Orie**, 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 2024 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 Orie**, Caryl Feldacker, Hannock Tweya, Richard Anderson. eHealth Data Security and Privacy: Perspectives from Diverse Stakeholders in Malawi. In *Proceedings of the ACM on Human-Computer Interaction (CSCW '24)*. <https://dl.acm.org/doi/10.1145/3637323>
6. **Lisa Orie**, 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 Orie**, 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 Orie**, 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>
10. Di Jin, Zhijing Jin, Joey Tianyi Zhou, **Lisa Orii**, 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 Research Assistant

Led digital health and digital finance projects in Malawi, Kenya, and Nigeria in collaboration with international partners, 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.
- Developed 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; designed chatbot prototypes.
- Designed longitudinal study to examine the reliability of USSD financial service providers in Nigeria; conducted statistical analysis of failure rates of 49,000 USSD-based financial transactions; generated data visualizations with Python and R.

OMRON SINIC X CORPORATION, Tokyo, Japan

June 2025 – Sept 2025

Intern

Led mixed-methods research on AI-mediated communication for online peer-support groups.

- Conducted 1-week experiment with 60 participants to understand how AI can facilitate online peer-support communication.
- Built Mattermost plugin using an LLM to suggest emojis aligned with message content.

PATH, Seattle, WA, USA

Apr 2024 – Sept 2024

Intern

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

- Defined data dictionary of 250 data elements that track blood donations; compared business processes and workflows between blood banking and human milk banking to define data dictionary of 110 data elements that track human milk donations.
- Conducted gap analysis of 100 comments from human milk banking experts to identify 6 actions to address needs; defined generic personas to identify stakeholders in human milk banking and lactation support.
- Contributed to writing a concept note and presentation materials; developed human-centered design report.

UNIVERSITY OF TOKYO, Tokyo, Japan

Apr 2020 – May 2022

Undergraduate Research Intern

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

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

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 qualitative data analysis on 3000 comments.

MIT MEDIA LAB, Cambridge, MA, USA

Feb 2019 – June 2021

Undergraduate Research Assistant

Assisted projects in the City Science and Space Enabled Groups.

- Developed an index of 5 urban indicators to describe urban attributes that enhance well-being.
- 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.

SKILLS

Languages

English (native), Japanese (native)

Programming

Python (advanced), R (advanced), Dart (intermediate), Java (intermediate), HTML/CSS/JavaScript (intermediate)

Computer Tools	Microsoft Office (advanced), ATLAS.ti (advanced), Tableau (intermediate), Figma (intermediate), Flutter (intermediate), ArcGIS (intermediate), Twine (beginner)
Research Methods & Analysis	Co-design, Speculative design, Wireframing, Storyboarding, Prototyping, User research, Usability testing, Interviews, Focus groups, Survey design, Experimental design, Mixed-method instruments, Qualitative analysis, Quantitative analysis, Data visualization, Android app development, Literature review

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

GRANTS

University of Washington Global Innovation Fund Tier 1 Research Award (\$5,000)	2025
University of Washington Global Innovation Fund Tier 2 Research Award (\$20,000)	2023