

LISA ORII

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SUMMARY

Human-computer interaction researcher designing, implementing, and evaluating digital and AI services across global development contexts. Proven strengths in human-centered design, qualitative and quantitative analysis, responsible AI, and stakeholder engagement. Led and supported project implementation in Kenya, Malawi, and Nigeria; sectors include health and digital finance.

EDUCATION

University of Washington

Ph.D. in Computer Science & Engineering

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

- Thesis: Pathways to Impact in Digital Health: Studies in Malawi and Kenya

Seattle, WA, USA

Sep 2021 – Jun 2026

Wellesley College

Bachelor of Arts in Computer Science and Philosophy

- Honors: Phi Beta Kappa, Sigma Xi, *magna cum laude*

Wellesley, MA, USA

Sep 2017 – Jun 2021

EXPERIENCE

United Nations Human Rights

Intern

Geneva, Switzerland

Aug 2026 – Present

- Developed a digitally testable responsible AI toolkit to assess AI readiness against human rights standards.
- Built traceable pathways from human rights risks to technical requirements, including user personas and test cases.
- Iteratively tested and improved a digital platform that standardized screening of 900+ peacekeeper nominations.

University of Washington

Research Assistant

Seattle, WA, USA

Sep 2021 – Jun 2026

Contraceptive Decision-Support App for Adolescent Girls and Young Women – Kenya

- Managed 5 engineers in a 13-person team to develop a user-centered decision-support app from concept to pilot.
- Supported a 3-month, 100-user pilot across six sites, achieving 94% decision-making confidence.
- Led 8 co-design workshops and chatbot concept testing with 90 stakeholders, informing service integration.

Data Governance for HIV Care – Malawi

- Partnered with a public HIV care program and the Ministry of Health to assess HIV data governance and security.
- Led field-based interviews with 75 government and clinical stakeholders to examine security needs and desires.
- Presented digital data protection recommendations to 9 program leaders to inform EMR scale-up across 140 sites.

Clinical Decision-Support App for Children's Respiratory Illnesses – Uganda

- Developed focus group protocols to assess clinical workflow integration of pediatric clinical decision-support app.
- Conducted qualitative data analysis in ATLAS.ti to identify implementation suggestions to optimize adoption.

Reliability of Digital Financial Services – Nigeria

- Designed a national longitudinal quantitative study to inform consumer protection in digital financial services.
- Analyzed 50,000 transactions in Python and R, using correlation analysis to identify systematic failure patterns.
- Produced analytical briefs and data visualizations to inform donors and policymakers on service reliability gaps.

OMRON SINIC X Corporation

Research Intern

Tokyo, Japan

Jun 2025 – Sep 2025

- Led a 60-person experiment, survey, and interviews to evaluate a novel AI system for peer support communication.
- Built an LLM-powered system to generate contextually relevant reactions, integrating user feedback into design.
- Performed regression modeling in R and qualitative analysis in ATLAS.ti to examine user behaviors.
- Developed a research framework for context-aware, risk-sensitive AI that mediates supportive communication.

PATH

Intern

Seattle, WA, USA

Apr 2024 – Sep 2024

- Supported early-stage strategy for integrated newborn nutrition digital systems following WHO SMART Guidelines.
- Defined 250 data requirements and 16 user personas of digital systems.
- Analyzed 100 expert inputs to identify 10 priority improvements in advocacy, data traceability, and quality control.
- Contributed human-centered research methods to a donor-facing concept note to inform program design.

The University of Tokyo

Research Intern

Remote

Apr 2020 – May 2022

- Led an 18-person experiment, surveys, and interviews to assess interactions with speech analysis software.
- Conducted statistical analysis in R to test hypotheses of impact of speech analysis on user confidence.
- Defined 3 design features of user-controlled speech training systems that enhance user confidence.

Wellesley College

Research Assistant

Wellesley, MA, USA

Aug 2020 – Sep 2021

- Web scraped 2,900+ social media posts to explore attitudes and experiences with AI in the trucking industry.
- Conducted qualitative analysis and time-series modeling to identify emerging trends and views towards automation.

MIT Media Lab

Research Assistant

Cambridge, MA, USA

Feb 2019 – Nov 2020

Water Ecosystem Monitoring Kit – Benin

- Built a low-cost water-quality sensor kit for with solar batteries and wireless data transmission, piloted in Benin.

Well-Being Urban Indicators at the District Level

- Conducted literature review of 140 articles and country resources to explore definitions of well-being.
- Defined 5 urban indicators and 13 urban attributes that measure the impacts of urban ecosystems on well-being.

PEER-REVIEWED PUBLICATIONS

JOURNAL ARTICLES

J.5 Co-design of a digital health intervention to provide pharmacy-based, person-centered contraceptive decision support for youth in Kenya

Elizabeth K Harrington, **Lisa Orie**, Nelson Kiprotich Cheruiyot, Merceline Awuor, Cellestine Aoko, Dismas C Ouma, Christine Dehlendorf, Richard Anderson, Elizabeth Anne Bukusi, Serah Gitome
PLOS ONE Global Health (Sep 2026)

J.4 “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

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
PLOS ONE (Feb 2025)

J.3 Menopause Legacies: Designing to Record and Share Experiences of Menopause Across Generations

Shaan Chopra, **Lisa Orie**, Katherine Juarez, Nussara Tieanklin, James Fogarty, and Sean A. Munson
Proceedings of the ACM on Human-Computer Interaction (Nov 2024)

J.2 eHealth Data Security and Privacy: Perspectives from Diverse Stakeholders in Malawi

Lisa Orie, Caryl Feldacker, Hannock Tweya, and Richard Anderson
Proceedings of the ACM on Human-Computer Interaction (Apr 2024)

J.1 Methodology for Establishing Well-Being Urban Indicators at the District Level to be Used on the CityScope Platform

Lisa Orie, Luis Alonso, Kent Larson
Sustainability (Nov 2020)

CONFERENCE PAPERS & ABSTRACTS

- C.8 Implementing a novel mobile health intervention to provide pharmacy-based, person-centered contraceptive decision support for youth in Kenya: A mixed-methods feasibility**
 Elizabeth K. Harrington, Dismas Congo Ouma, **Lisa Orie**, Merceline Awuor, Cellestine Aoko, Richard Anderson, Serah Gitome, Elizabeth A. Bukusi
2025 International Conference on Family Planning (ICFP)
- C.7 Supporting Contraceptive Decision-Making in the Intermediated Pharmacy Setting in Kenya**
Lisa Orie, Elizabeth K Harrington, Serah Gitome, Nelson Kiprotich Cheruiyot, Elizabeth Anne Bukusi, Sandy Cheng, Ariel Fu, Khushi Khandelwal, Shrimayee Narasimhan, and Richard Anderson
Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems
- C.6 HIV Client Perspectives on Digital Health in Malawi**
Lisa Orie, Caryl Feldacker, Jacqueline Madalitso Huwa, Agness Thawani, Evelyn Viola, Christine Kiruthu-Kamamia, Odala Sande, Hannock Tweya, and Richard Anderson
Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems
- C.5 “Designing for Speech Practice Systems: How Do User-Controlled Voice Manipulation and Model Speakers Impact Self-Perceptions of Voice?”**
Lisa Orie, Nami Ogawa, Yuji Hatada, and Takuji Narumi
Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems
- C.4 Perceptions of Trucking Automation: Insights from the r/Truckers Community**
Lisa Orie, Diana Tosca, Andrew L Kun, and Orit Shaer
13th International Conference on Automotive User Interfaces and Interactive Vehicular Applications
- C.3 Perceptions on the Future of Automation in r/Truckers**
Lisa Orie, Diana Tosca, Andrew L Kun, and Orit Shaer
Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems
- C.2 Hooks in the Headline: Learning to Generate Headlines with Controlled Styles**
 Di Jin, Zhijing Jin, Joey Tianyi Zhou, **Lisa Orie**, and Peter Szolovits
Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics
- C.1 Co-Designing an Environmental Observatory to Support Eco-Entrepreneurship in Benin**
 Danielle Wood, Fohla Mouftaou, Temilola Fatoyinbo, David Lagomasino, Ufuoma Ovienmhada, Eric Ashcroft, Lelia Hampton, **Lisa Orie**, TojumiOluwa Adegboyega, Anisha Nakagawa and Julliet Wanyiri
American Geophysical Union, Fall Meeting 2019, abstract

HONORS, AWARDS, FELLOWSHIPS

Japan Student Services Organization (JASSO) Graduate Scholarship	2025
ACM CHI 2024 Best Paper Honorable Mention (top 5%)	2024
Wellesley College Horton-Hallowell Fellowship	2025
Quad Fellowship	2022
MIT Technology Review’s Innovators Under 35 Japan	2022
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

RESEARCH GRANTS

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

ACADEMIC SERVICE

Reviewing

Proceedings of the ACM on Human-Computer Interaction	2023 – Present
ACM CHI Conference on Human Factors in Computing Systems	2023 – Present

University Organization

University of Washington Change Seminar Co-Organizer	2023 – 2024
University of Washington ICTD Seminar Co-Organizer	2023 – 2024
University of Washington CSE Prospective Student Committee Co-Chair	2023 – 2024
University of Washington Pre-Application Mentorship Service Volunteer	2021 – 2024

Conference Organization

ACM CHI Conference Student Volunteer	2025 – 2026
ACM COMPASS Conference Student Volunteer	2022
ICTD Conference Student Volunteer Chair	2022
Automotive UI Conference Student Volunteer	2021

TEACHING

University of Washington

Data Programming, Introductory Python (90 Undergraduates)	Winter 2025, Autumn 2025, Winter 2026
Computing for Social Good (30 Graduates)	Autumn 2024
Capstone Software Design for Global Health (25 Undergraduates)	Spring 2024
Human-Computer Interaction (40 Undergraduates)	Winter 2024

Wellesley College

Human-Computer Interaction (30 Undergraduates)	Spring 2021
Human-Automation Interaction (30 Undergraduates)	Spring 2021

INVITED TALKS

Ehime University Center for Data Science	Feb 2026
University of Washington Breakfast with WACH	Oct 2025
Ochanomizu University Introduction to Humanities Data Engineering Course	Jul 2025
The University of Tokyo Interactive Intelligent Systems Laboratory	Dec 2024
University of Washington Computing for Social Good Course	Nov 2024
Quad Fellowship Spring Symposium	May 2024
University of Washington Capstone Computing for Global Health	May 2024
University of Washington Change Seminar	Oct 2023

MEDIA

MIT Technology Review Japan – Follow-Up Interview on Innovators Under 35 Japan (Link to article)	Feb 2026
GeekWire – Presentation of Research on Chatbots for Sensitive Health Contexts (Link to article)	Oct 2025
MIT Technology Review Japan – Innovators Under 35 Japan Announcement (Link to article)	Mar 2023
University of Washington – Innovators Under 35 Japan Announcement (Link to article)	Dec 2022
University of Washington – Quad Fellowship Announcement (Link to article)	Dec 2022