

# Lisa Orij

Ph.D. Student in Computer Science & Engineering  
Human-Computer Interaction, Information and Communication Technologies for Development

Paul G. Allen School of Computer Science & Engineering  
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## Research Interests

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I develop and evaluate human-centered mobile health (mHealth) that supports healthcare provision in low- and middle-income countries (LMICs) using human-computer interaction (HCI) frameworks. My research is collaborative – I work closely with health experts and Ministries of Health who understand local contexts. My thesis focuses on technologies that support provision of care in community settings and integrating interventions into existing health systems.

## Education

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### University of Washington (UW)

Ph.D. in Computer Science & Engineering  
Global WACH Certificate Program  
Advisor: Professor Richard Anderson

*Sept 2021 – June 2026 (Expected)*

### Wellesley College

B.A. in Computer Science and Philosophy  
Advisor: Professor Orit Shaer  
*Magna Cum Laude, Phi Beta Kappa, Sigma Xi*

*Sept 2017 – June 2021*

### University of Oxford Worcester College

Visiting student in Computer Science and Philosophy

*Sept 2019 – Dec 2019*

## Publications

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### Peer-Reviewed Publications

1. **Lisa Orij**, 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 Orij**, 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. Recently accepted to *PLOS ONE*.
3. Shaan Chopra, **Lisa Orij**, 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)*. [\[link\]](#)
4. **Lisa Orij**, 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%)** [\[link\]](#)
5. **Lisa Orij**, Caryl Feldacker, Hannock Tweya, Richard Anderson. eHealth Data Security and Privacy: Perspectives from Diverse Stakeholders in Malawi. *Proc. ACM Hum.-Comput. Interact (CSCW '24)*. [\[link\]](#)

6. **Lisa Orij**, 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)*. [\[link\]](#)
7. **Lisa Orij**, 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)*. [\[link\]](#)
8. **Lisa Orij**, 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)*. [\[link\]](#)
9. **Lisa Orij**, Luis Alonso, Kent Larson. Methodology for Establishing Well-Being Urban Indicators at the District Level to be used on the CityScope Platform. *Sustainability*. [\[link\]](#)
10. Di Jin, Zhijing Jin, Joey Tianyi Zhou, **Lisa Orij**, and Peter Szolovits. Hooks in the Headline: Learning to Generate Headlines with Controlled Styles. In *Proceedings of the 58<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (ACL 2020)*. [\[link\]](#)

## Other

1. Danielle Wood, Fohla Mouftaou, Temilola Fatoyinbo, David Lagomasino, Ufuoma Ovienmhada, Eric Ashcroft, Lelia Hampton, **Lisa Orij**, TojumiOluwa Adegboyega, Anisha Nakagawa and Julliet Wanyiri. (2019, December). Co-Designing an Environmental Observatory to Support Eco-Entrepreneurship in Benin. In *AGU Fall Meeting Abstracts* (Vol. 2019, pp. GC53B-01).

## Research Projects

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Research methods in **blue**. Programming languages and frameworks are in **orange**.

### Tools for Health Researchers to Maintain Mobile Health Apps

Oct 2024 – Present

Graduate Research Assistant – University of Washington, Seattle, WA, USA

Advisor: Richard Anderson

- Exploring designs for software tools that health researchers can use to maintain the content and user interface of mobile health apps.
- Methods and Tools: **Study design** (ideation, ethics approval), **Semi-structured interviews**, **Prototyping**

### Mobile App for Expanding Contraceptive Choice in Kenya

Oct 2023 – Present

Graduate Research Assistant – University of Washington, Seattle, WA, USA

- Developed an Android app to provide contraceptive education and decision support for young women in the Kenyan pharmacies.
- Conducted co-design workshops in Kenya to gather app feedback.
- Piloted app with 100 users in Kenya.
- Prototyping chatbot designs.
- Methods and Tools: **Co-design**, **Prototyping**, **Focus group discussions**, **Flutter**, **Dart**, **Figma**
- Publication: CHI 2025 paper

### Strengthening Digital Health Systems for Small and Sick Newborns

Apr 2024 – Sept 2024

Intern – PATH, Seattle, WA, USA

- Developed recommendations for digital information systems for human milk banking that strengthen newborn care programs in low- and middle-income countries.
- Identified data elements to gather on digital information systems.
- Compared business processes between human milk banking and blood banking.
- Conducted human milk banking gap analysis.
- Methods and Tools: **Business processes**, **Literature review**

### HIV Data Security and Privacy in Malawi

May 2022 – Sept 2024

Graduate Research Assistant – University of Washington, Seattle, WA, USA

- Investigated gaps and opportunities in the security of an open-source mobile medical record system used at a HIV care program in Malawi.
- Interviewed healthcare providers, data decision makers, and HIV clients to illuminate key data security issues.

- Developed policy and practice improvements for data security and privacy.
- Methods and Tools: **Study design** (ideation, ethics approval, execution, publication writing and submission), **Semi-structured interviews**, **Focus group discussions**, **Qualitative analysis**, **ATLAS.ti**
- Publication: CHI 2024 paper [[link](#)], CSCW 2024 paper [[link](#)], PLOS ONE paper

#### USSD Transaction Failures in Nigeria

Sept 2023 – July 2024

Graduate Research Assistant – University of Washington, Seattle, WA, USA

- Designed a longitudinal repeated measures study to examine USSD reliability in Nigeria.
- Analyzed transaction failure rates between banks and telecommunication providers after a 1-month deployment that resulted in 40,000 USSD sessions.
- Methods and Tools: **Study design** (ideation, recruitment planning, ethics approval), **Data visualization**, **Quantitative analysis**, **Python**, **R**

#### Designs for Recording and Sharing Menopause Experiences Across Generations

Jan 2022 – Oct 2023

Graduate Research Assistant – University of Washington, Seattle, WA, USA

- Proposed designs and guidelines for recording and sharing menopause experiences across generations and within families.
- Methods and Tools: **Study design** (ideation, ethics approval, implementation, publication writing and submission), **Semi-structured interviews**, **Co-design**, **Qualitative analysis**
- Publication: CSCW 2024 paper [[link](#)]

#### Speech Practice Systems to Improve Self-Perceptions

Apr 2020 – May 2022

Undergraduate Research Assistant – University of Washington, Seattle, WA, USA

- Investigated the impact of listening to speech role models and voice manipulation on the self-perception of voice.
- Designed and executed usability study with 18 participants.
- Methods and Tools: **Study design** (ideation, ethics approval, implementation, publication writing and submission), **Semi-structured interviews**, **User study**, **Mixed-methods**, **Prototyping**, **HTML/CSS/JavaScript**, **R**
- Publication: CHI 2022 paper [[link](#)]

#### Truck Drivers' Perspectives on Automation

Sept 2020 – July 2021

Undergraduate Research Assistant – Wellesley College, Wellesley, MA, USA

- Led a project that analyzed the perspective of truck drivers on automation in the trucking industry.
- Collected Reddit posts written by truck drivers and conducted analysis.
- Methods and Tools: **Study design** (ideation, implementation, publication writing and submission), **Web scraping**, **Mixed-methods**, **Python**
- Publications: CHI 2021 poster [[link](#)], AutoUI 2021 paper [[link](#)]

## Grants, Awards, Fellowships

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

## Teaching

Graduate Teaching Assistant, University of Washington

Courses: Human-Computer Interaction (Wi 2024), Capstone Software Design to Empower Underserved Populations (Sp 2024), Computing for Social Good (Au 2024), Data Programming (Wi 2025)

## Undergraduate Teaching Assistant, Wellesley College

Courses: Human-Automation Interaction (Sp 2021), Human-Computer Interaction (Sp 2021), Calculus II (Sp 2018)

## Mentorship

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**Krishna Khandelwal:** Mobile App for Expanding Contraceptive Choice in Kenya

**Khushi Khandelwal:** Senior thesis, Mobile App for Expanding Contraceptive Choice in Kenya

**Ariel Fu:** Mobile App for Expanding Contraceptive Choice in Kenya

**Sandy Cheng:** Mobile App for Expanding Contraceptive Choice in Kenya

**Shrimayee Narasimhan:** Mobile App for Expanding Contraceptive Choice in Kenya

**Shobhit Srivastava:** Mobile App for Expanding Contraceptive Choice in Kenya

## Academic Service

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### Reviewing

Proceedings of the ACM on Human-Computer Interaction (PACM HCI), CSCW

2023 – Present

ACM CHI Conference on Human Factors in Computing Systems (CHI)

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

## Volunteering

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**Parasaiyo Japan, The Philippines**

May 2015 – Present

- Supporting orphanage in the Philippines in their pursuits for higher education.
- Organizes charity events in Japan to raise donation funds.
- Makes annual visits to orphanage.

**Chinatown Afterschool Program Mentor Boston, MA, USA**

Sept 2017 – May 2018

- Assisted with providing afterschool instruction for children living in Boston's Chinatown.
- Supported learning for third grade students.