

Alfonso “Alfie” Aguilar Vidrio

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SUMMARY

Leader in User and Learning Experience, creating equitable and impactful design solutions for healthcare and education.
Research Interests: mHealth, infectious disease treatment, education technology, human-centered design, human-computer interaction, equity in education and healthcare, co-design, accessibility.

EDUCATION

University of Washington, Seattle (WA)

2019 – 2023

Bachelor of Science in Human Centered Design & Engineering
Concentration in Human-Computer Interaction (HCI)

Harvard University, Cambridge (MA)

2025 – 2026 (Expected)

Graduate Certificate in Learning Design and Technology
Courses: Introduction into Instructional Design; Designing AI-integrated Learning and User Experiences;
Capstone in Instructional Design; User Experience Engineering

PROFESSIONAL EXPERIENCE

User Experience Specialist

10/2024 – Present

Pearson (Seattle, WA)

- Bridged talks between content, design, and production (120+ team) to execute 673 eLearning instructional modules.
- Created innovative, interactive, and scalable digital educational toolkits for driving engagement and content retention.
- Collaborated with the development team to design early-stage wireframing, prototyping, flow-charts, and concept UIs..
- Developed UX/LX proof-of-concepts for new product divisions, exploring how interactivity could support learning.
- Managed all LX deliverables using learning pedagogies; executing a product that received 91% satisfaction from students.

Senior UX Designer & Researcher

01/2020 – 09/2024

University of Washington, School of Nursing (Seattle, WA)

- Managed a design team of 5-8 researchers to execute weekly design and research deliverables for NIAID Research.
- Conducted series of usability test to identify barriers to user engagement, achieving 85% satisfaction and 90% satisfaction.
- Lead creation 80+ design artifacts to guide development of SaSS healthcare professionals using a user-centric approach.
- Integrated AI into the entire user journey, using mixed-methods research analysis to identify design opportunities.
- Simplified and distilled complex processes into intuitive and elegant UI/UX that successfully cured over 500 TB patients.

Lead UX Researcher

05/2022 – 04/2024

University of Washington, School of Medicine (Seattle, WA)

- Successfully developed a mobile app to help patients access HIV treatment, prevention, and educational services.
- Facilitated development of qualitative and quantitative research protocols which were used to conduct 30 usability tests.
- Identified and addressed over 32 barriers using HCD principles and resulted in a high usability rate of 91%.
- Conducted user interviews, focus groups, and A/B tests. Synthesized the results into actionable design recommendations.
- Enhanced UX by leveraging Agile Project Management skills and leading a team of 5-7 designers and researchers.

UX Designer & Researcher

05/2022 – 04/2024

IxDA Seattle (Seattle, WA)

- Led end-to-end (0-1) UX design and research process, from research, concept ideation, Hi-Fi digital prototyping, flexible design system, branding style guide, usability testing, and detailed analysis and synthesis of findings.
- Conducted research across the product lifecycle to understand user needs and pain points to inform design decisions.
- Produced final usability scores of 88%, satisfaction scores of 90%, and key-task completion rate of 92%.

UX Researcher

09/2020 – 06/2021

Brotman Baty Institute (Seattle, WA)

- Analyzed datasets and designed a usability test to identify procedural pain-points and increase success rates.
- Synthesized a report of design recommendations and research findings to address the usability issues we identified.
- Partnered with engineering, product, and stakeholders to to reduce procedural roadblocks along whole product lifecycle.
- Quickly completed a redesign of materials and procedures to increase accessibility and success rate for kits.

AWARDS AND SCHOLARSHIPS

Mary Gates Research Scholarship	2023
Conducting HCD UX research to develop healthcare application for HIV patients.	
Donna M. Sakson Endowed Scholarship for Excellence through Diversity	2022, 2023
Awarded for achieving academic excellence and promoting diversity on campus.	
University of Washington CoMotion Innovation Award	2021
Award recognizing industry-leading research.	

PUBLICATIONS

Evaluation of patient centred digital adherence technology for tuberculosis treatment outcomes: pragmatic randomised controlled trial	2026
Rubinstein F, Moraes Morelli D, Palma I, Sanjurjo M, Morales R, Bornengo F, Viera G, Goodwin K, Aguilar Vidrio A , Leon D, Sprecher J, Lutz B, Iribarren S <i>The BMJ</i>	
Patient Experiences and Motivations in Tuberculosis Treatment: Insights from a Digital Adherence Technology Trial	2026
Iribarren S, Roberti J, Aguilar-Vidrio A , Lutz B, Rubinstein F <i>Indian Journal of Tuberculosis</i>	
Improving tuberculosis treatment adherence: a qualitative study of patients' perspectives from a pragmatic trial of the tuberculosis treatment support tools intervention	2025
Roberti J, Moraes Morelli D, Aguilar-Vidrio O , Suyanto A, Carmiol-Rodriguez P, Tolentino A, Chen-Liang E, Sprecher J, Rubinstein F, Iribarren S <i>BMJ Open</i>	
Evaluation of an AI-Assisted Platform to Support Tuberculosis Care Delivery	2025
Iribarren S, Yuwen W, Filienko D, Jakher H, Nizar M, Vidrio A , Kwanin C, Galdamez D, Roberti J, De Cock M <i>Proceedings of the 20th World Congress on Medical and Health Informatics</i>	
User-centered refinement of a digital tool for tuberculosis treatment support: iterative mixed methods study	2025
Iribarren S, Aguilar Vidrio OA , Roberti J, Goodwin K, Chirico C, Telles H, Lutz B, Bornengo F, Rubinstein F <i>Journal of Medical Internet Research</i>	
Enhancing tuberculosis treatment support: A thematic analysis of interactive messages in a digital adherence technology trial to identify needs, challenges, and strategies for improvement	2025
Roberti J, Carmiol-Rodríguez P, Chan-Liang E, Aguilar-Vidrio OA , Suyanto AA, Sprecher J, Rubinstein J, Iribarren S <i>PLOS ONE</i>	
Optimizing Directed Research Groups with Students to Iteratively Refine the Tuberculosis Treatment Support Tools	2024
Iribarren S,, Aguilar Vidrio A <i>Innovation in Applied Nursing Informatics</i>	
Mobile tuberculosis treatment support tools to increase treatment success in patients with tuberculosis in Argentina: protocol for a randomized controlled trial	2021
Iribarren S, Milligan H, Goodwin K, Aguilar Vidrio OA , Chirico C, Telles H, Morelli D, Lutz B, Sprecher J, Rubinstein F <i>Journal of Medical Internet Research</i>	

LECTURES & PANELS

The Value of Mixed Methods Research for mHealth Applications

2025

University of Washington, School of Nursing (Seattle, WA)
NMETH 588: Mixed Methods Research for Health Sciences

Conducting Undergraduate Research in HCDE

2023

University of Washington, Department of Human-Centered Design & Engineering
Student Undergraduate Panel

RESEARCH POSTERS

From Trial Gaps to Guided Support: A Spanish-Language Agentic AI Tool for TB Treatment and Coping

2026

10th UW Annual TB Symposium (Seattle Tuberculosis Research Advancement Center)
3rd Annual Institute for Medical Data Science (IMDS) Symposium

Enhancing TB Treatment: Developing & Evaluating Spanish-Language LLM Chatbots for Real-Time Support

2025

World Conference on Lung Health

A Human-Centered Approach for Designing an mHealth Intervention for HIV Treatment and Prevention

2023

University of Washington Undergraduate Research Symposium , (Seattle, WA)

CERTIFICATIONS

Certified Professional in Accessibility Core Competencies (CPACC)

2026 (Expected)

International Association of Accessibility Professionals

COMMUNITY SERVICE

Educational Outreach

2026 – Present

Seattle LGBTQ+ Center

Career Support to HCDE Students

2026 – Present

University of Washington, Department of Human-Centered Design & Engineering

Graphic Design

2026

NO HATE in WA State Campaign