

#### Education \_

#### **University of Washington (UW)**

Seattle, WA, USA

PHD IN COMPUTER SCIENCE & ENGINEERING; FOCUS: HUMAN-COMPUTER INTERACTION & HEALTH

Sept 2021 - June 2026

Advised by James Fogarty & Sean Munson | CGPA: 3.98 | Selected Coursework: HCI, AI, Computer Ethics, Security, Critical Technology Practice

#### University of Maryland - College Park (UMD)

College Park, MD, USA

MASTER OF SCIENCE IN HUMAN-COMPUTER INTERACTION

Aug 2019 - May 2021

Advised by Eun Kyoung Choe | MS Thesis Committee: Amanda Lazar, Beth St. Jean | CQPA: 4.0 | **Selected Coursework**: Health Informatics, Data Visualization, UX Research Methods, Interaction Design, Makerspace Technologies

# Indraprastha Institute of Information Technology, Delhi (IIIT-D)

New Delhi, India

B.Tech. in Computer Science & Engineering

Aug. 2015 - May 2019

CGPA: 8.7/10 | Dean's List (>=9.5 GPA 3rd Year) | **Selected Coursework**: Data Structures, Algorithm Design & Analysis, Object-Oriented Programming, Databases, Operating Systems, Advanced Biometrics, Designing Human-Centered Systems, Wearable Applications

## Skills\_

#### **Research & Analysis**

Human-Centered Design • Al Applications for Health • Health Informatics & Technology Design • User Experience • Participatory Design • Study Design • Qualitative Research & Analysis • Mixed-Methods • Data Visualization • Community-Engaged Research

#### Languages, Tools, and Technologies

Python • C/C++ • Java • Ruby • MATLAB • HTML • CSS • JavaScript • Flask • Android Studio • Keras • SQL • NoSQL • MongoDB • Angular JS • Spring • D3.js • Tableau • धर्म् X• Tinkercad • Figma • Invision • Balsamiq • Marvel • Sketch • Photoshop • Qualtrics • UserZoom • Nvivo • Dedoose

# Experience \_

## Merck Sharp & Dohme (MSD)

Remote (West Point, PA)

RESEARCH INTERN (UX & EPIDEMIOLOGY)

May 2025 - Aug 2025

- Part of the Real World Evidence Capabilities and Analytics Team under Biostatistics and Research Decision Sciences (BARDS).
- · Conducting user research and usability testing for multiple projects involving real world data platforms and partnerships.
- Informing design of different capabilities, including potential opportunities to incorporate generative AI, to support decision-making around and analysis of real world evidence health data.

# **Institute of Translational Health Sciences (ITHS)**

Seattle, WA

RESEARCH INTERN

June 2024 - Sept 2024

- Worked with the ITHS Hub Liaison & Network Capacity Team on a translational science project to improve participant diversity and enrolment from underserved populations in clinical trials, with a salient focus on use of remote technologies
- Conducted **interviews** & **focus groups** with clinical investigators and research coordinators
- Created a bundle of interventions to share with (i) clinical researcher teams and (ii) institutional research support services across UW Medicine, Fred Hutch Cancer Research Center, and Seattle Children's Hospital
- Investigated implementation pathways for using identified interventions within real world constraints (e.g., technology access barriers, social determinants and health disparities affecting different communities)

# Population Health Initiative (PHI) - UW

Seattle, WA

SOCIAL ENTREPRENEURSHIP FELLOW

June 2023 - Aug 2023

- Worked as a part of the PHI to **understand the market need** & **develop a strategy for adoption** of the new, culturally-responsive child developmental screening tool being developed by the project team (Julie Kientz, Kendra Liljenquist)
- Conducted customer discovery & market research, interviewing various stakeholders
- Provided recommendations on cost-measuring, policy, legal, & regulatory issues and for scaling, financial models, & sustainability of the tool%

# Parkview Mirro Center for Research and Innovation

Remote (Fort Wayne, IN)

June 2022 - Sept 2022

RESEARCH INTERN

- Examined data needs & communication practices between clinicians & long covid patients
- Conducted interviews & focus groups with medical providers
- Used qualitative & quantitative methods and data visualization to analyze health tracking, survey, interview & health record data
- **Designed dashboards & digital formats** for visualizing patient personal informatics data; dashboards were integrated into Parkview Health's clinical infrastructure in 2022 and are still used by clinicians for creating personalized plans-of-care for patients

# Selected Projects

## Examining Use of Generative AI for Reflecting & Making Sense of Personal Health Informatics Data

- Examining potential of Generative AI for supporting people draw more personalized & actionable insights from their self-tracked health data
- Using qualitative & quantitative research methods to study how people prompt & perceive health data insights by Generative Al
- Analyzing data using **hybrid deductive & inductive thematic analysis** with the goal of developing a framework for Generative AI use for support tracking & acting on insights from personal health data

## Examining Community-Responsive AI-enabled mHealth Tools for Hispanic & Latinx Populations

- Collaborated with research ethicists, pediatric pulmonologists & public health researchers Seattle Children's Hospital to examine Hispanic & Latinx community perspectives of Al-powered mHealth tools for monitoring pediatric asthma
- Conducted **focus group sessions** in rural & urban Washington to explore health condition & population-specific considerations for clinical utility, usability, burden, privacy & data sharing in mHealth tools
- Led the development of a translational resource for supporting cultural-responsiveness in mHealth and AI/ML research in health%
- Work resulted in a peer-reviewed publication%

#### **Designing to Record & Share Menopause Experience Across Generations**

- Studied practices for recording & sharing menopause experiences across generations and within families
- Created design sketches & probes for recording & sharing menopause legacies to use in remote co-design sessions
- Work resulted in peer-reviewed publication%

## **Tracking and Managing Stigmatized Enigmatic Health Conditions**

- · Examined experiences of people with enigmatic conditions (e.g., PCOS) with the aim to support their tracking and collaboration needs
- · Conducted in-depth interviews, participatory design & research, and data analysis on an online social support platform
- Work resulted in a peer-reviewed publication and master's thesis

#### **Design Methods for Dementia**

- Collaborated with a dementia rights advocate and proposed user-centered design methods for designing for and with people with cognitive
  disabilities, particularly people with dementia
- Designed and conducted workshops teaching aspiring UX designers the proposed method
- Published a case study documenting our proposed method %

## **Designing Voice-Assistant Technologies for Older Adults**

- Collaborated on a project to understand voice assistant use by older adults
- Assisted with designing the study, including conceptualization and material creation for the participatory design sessions
- Conducted remote co-design sessions with older adults
- Contributed to multiple peer-reviewed publications %

# Selected Peer-Reviewed Publications

- P13 S. Chopra, K. Juarez, J. Fogarty, S. A. Munson: Engagements with Generative AI and Personal Health Informatics: Opportunities for Planning, Tracking, Reflecting, and Acting around Personal Health Data. IMWUT'25. %.
- P12 S. A. Kraft, S. Chopra, M. Duran, J. A. Rojina, A. Beretta, K. I. López, R. Javan, B. S. Wilfond, M. Rosenfeld, J. Fogarty, L. K. Ko: Community Perspectives on Artificial Intelligence-Enabled Mobile Health Tools: A Focus Group Study of Hispanic and Latinx Community Members. Journal of Medical Internet Research.
- P11 A. Pradhan, S. Erete, S. Chopra, P. Upadhyay, O. Sule, A. Lazar: No, not that voice again!: Engaging Older Adults in Design of Anthropomorphic Voice Assistants. CSCW'25. %
- P10 A. Pradhan, S. Chopra, P. Upadhyay, R. Brewer, A. Lazar: Understanding Entangled Human-Technology-World Relations: A Case Study on Intelligent Voice Assistants for Technologies for Aging. iConference'25.
- P9 S. Chopra, L. Orii, K. Juarez, N. Tieanklin, J. Fogarty, S. A. Munson: Menopause Legacies: Designing to Record and Share Experiences of Menopause Across Generations. CSCW'24. %
- P8 S. Chopra, J. Carroll, J. Pater: Providing Context to the "Unknown": Patient and Provider Reflections on Connecting Personal Tracking, Patient-Reported Insights, and EHR Data within a Post-COVID Clinic. CSCW'24. %
- P7 J. Pater, S. Chopra, J. Zaccour, J. Carroll, F. F. Nova, T. Toscos, S. Guha, F. L. Chang: Charting the COVID Long Haul Experience A Longitudinal Exploration of Symptoms, Activity, and Clinical Adherence. CHI'24. %
- P6 Y. S. Sefidgar, C. L. Castillo, **S. Chopra**, L. Jiang, T. Jones, A. Mittal, H. Ryu, J. Schroeder, A. Cole, N. Murinova, S. A. Munson, J. Fogarty: MigraineTracker: Examining Patient Experiences with Goal-Directed Self-Tracking for a Chronic Health Condition. CHI'24.
- P5 S. Chopra, A. Beretta, M. Duran, K. I. López, J. A. Rojina, L. K. Ko, M. Rosenfeld, B. S. Wilfond, J. Fogarty, S. A. Kraft: **Developing a Resource for Supporting Community-Based Health Research: Towards Considerations for Advancing Equity in Mobile Health Technology**. CSCW'24 Poster. %
- P4 S. Chopra, R. Zehrung, T. Shanmugam, E. K. Choe: Living with Uncertainty and Stigma: Self-Experimentation and Support-Seeking around Polycystic Ovary Syndrome. CHI'21. %
- P3 S. Chopra, E. Dixon, K. Ganesh, A. Pradhan, M. Radnofsky, A. Lazar: Designing for and with People with Dementia using a Human Rights-Based Approach. CHI'21 Case study. %
- P2 A. Tuli, S. Chopra, P. Singh, N. Kumar: Menstrual (Im)Mobilities and Safe Spaces. CHI'20. %
- P1 A. Tuli, S. Chopra, N. Kumar, P. Singh: Learning from & with Menstrupedia: Towards Menstrual Health Education in India. CSCW'18%

# Awards & Achievements \_\_

- Best Paper Award, Received at ACM CHI 2024.
   Grace Hopper Conference Scholarship, Received UW CSE funding to attend GHC 2023
   TAPIA Conference Scholarship, Received UW CSE funding to attend TAPIA Conference 2022
   Wissner-Slivka Endowed Graduate Fellowship, UW CSE 1st year fellowship
   College of Information Studies Alumni Chapter Scholarship, Exceptional UMD iSchool grad student award
   Grace Hopper Conference Scholarship, Received UMD iSchool scholarship to attend GHC 2020
- 2018 **ACM-Women Scholarship**, Received travel scholarship to attend CSCW 2018
- 2018 Google IWD Scholarship, Received travel scholarship to attend IWD Celebrations at Google, Bangalore
- 2018 **Dean's List for Academic Excellence**, 9.5+ CGPA in third year of undergraduate degree at IIIT-D

# Teaching Assistant Experience \_

CSE 512	Data Visualization, with Jeffrey Heer at UW	Spring 2025
CSE 442	Data Visualization, with Jeffrey Heer at UW	Fall 2024
CSE 512	Human Computer Interaction, with James Fogarty at UW	Fall 2023
CSE 440	Human Computer Interaction, with Scott Ichikawa at UW	Spring 2023
INST 201	Information Science, with M. R. Sauter at UMD	Spring & Fall 2020

# Academic Service \_\_\_\_\_

2025	Reviewer, ACM Transactions on Computing for Healthcare (HEALTH)
2025	Reviewer, ACM Transactions on Computer-Human Interaction (TOCHI)
2021-25	Reviewer, ACM Conference on Human Factors in Computing (CHI)
2022-25	<b>Reviewer</b> , ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)
2024-25	Reviewer, ACM Designing Interactive Systems (DIS)
2022	Student Volunteer, ACM Conference on Human Factors in Computing (CHI)
2021	<b>Web Co-Chair,</b> ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)
2019	<b>Student Volunteer</b> , Conference on Information & Communication Technologies and Development (ICTD)