

Schopra7@cs.washington.edu | ★ shaan15.github.io | ★ shaan-chopra

Education _

University of Washington Seattle, WA, USA

PHD IN COMPUTER SCIENCE AND ENGINEERING

Sept 2021 - ongoing

Advised by James Fogarty & Sean Munson | **Selected Coursework**: Computer Ethics

University of Maryland - College Park

College Park, MD, USA

MASTER OF SCIENCE IN HUMAN-COMPUTER INTERACTION

Aug 2019 - May 2021

Advised by Eun Kyoung Choe | Committee: Amanda Lazar, Beth St. Jean | CQPA: 4.0 | Selected Coursework: Data Visualization, Health Informatics, UX Research Methods, Interaction Studio, Makerspaces

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

New Delhi, India

B.Tech. IN COMPUTER SCIENCE AND 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, Advanced Biometrics, Designing Human-Centered Systems, Wearable Applications

Research Interests

Human Computer Interaction, Health Informatics & Healthcare, Design Research, Participatory Design, Inclusive Design, User Experience

Skills

Research

Qualitative Research Methods • User-Centered Design • Participatory Design • Study Design • Qualitative Data Analysis • Data Visualization

Languages

Python • C/C++ • Java • Ruby • MATLAB • HTML • CSS • JavaScript

Tools and Technologies

Flask • Android Studio • Keras • SQL • NoSQL • MongoDB • Angular JS • Spring • D3.js • Tableau • धॅाऱ्X • Tinkercad • Figma • Invision • Balsamiq • Marvel • Sketch • Photoshop • Qualtrics • UserZoom

Experience _

Appruve Newark, DE

USER EXPERIENCE ENGINEER INTERN

June 2020 - Aug 2020

- Worked with product team to identify research questions and conduct heuristic & usability assessments, interviews, surveys & research use-cases for 2 consumer platforms - Appruve Identity & Appruve Financial
- Generated ${\bf user\ stories},$ system requirements $\&\ {\bf user\ workflows}$ for these Appruve products
- · Applied machine learning & computer vision algorithms to detect & verify components of African IDs; integrated this with Appruve Identity

INRIA Lille, France

RESEARCH COLLABORATOR | LOKI TEAM

June 2020 - Aug 2020

- Created a design space of visual & haptic perceptual factors that influence discovery of microgestural input methods in touch-based interfaces.
- Designed and implemented a collection of interactive graphical widgets using the proposed design space that affords microgestural input
- Designed a study to conduct qualitative & quantitative user evaluations of the proposed designs

University of Maryland - College Park

College Park, MD

RESEARCH ASSISTANT (UX)

May 2020 - Sept 2020

- Conducted in-depth interviews & app-based diary studies to understand strategies of students (international & local) to cope with COVID-19
- Conducted a cross-cultural study, ran 40 online experiment sessions with 4 participants each under 3 experiment conditions to gauge the effectiveness of machine translation in supporting multilingual teamwork

CommunicateHealth, Inc.

Rockville, MD

UX RESEARCH & DESIGN COLLABORATOR

- Sept 2019 Dec 2019 · Worked with CommunicateHealth to design accessible, understandable & usable mobile friendly website for healthfinder.gov for providing
- health information to low literacy users in the U.S. • Employed contextual design & user-centered design: performed contextual inquiry, affinity diagramming, experience modeling, low & high fidelity prototyping, wireframing, usability testing & inspections

Mélange Lab, IIIT-Delhi Delhi, India

RESEARCH ASSISTANT Aug 2017 - Sept 2019

- · Applied participatory design & qualitative research techniques including interviews, surveys, think-aloud sessions & thematic analysis to understand needs & aspirations of Menstrual Health Education & Hygiene in India & propose designs of culturally-responsive technologies
- · Engaged with frameworks such as Feminist HCI, Aspiration-based Design, Asset-based Design & Storied Spaces for analysis

INFORMATION TECHNOLOGY INTERN

June 2017 - July 2017

- Designed & developed the front-end for the mobile-based online application procedure of Delhi Subordinate Service Selection Board examinations using Marvel & XML
- · Created an application using Python-based API to respond to tweets directed to the Public Grievance Management System

Selected Projects.

Tracking and Managing Stigmatized Enigmatic Health Conditions

- Worked with Dr. Eun Kyoung Choe to study 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 results in a full paper and master's thesis

Design Methods for Dementia

- Worked with Dr. Amanda Lazar and Mary Radnofsky (a dementia rights advocate) to propose user-centered design methods for designing for and with people with cognitive disabilities, particularly people with dementia.
- Designed and conducted workshops implementing the proposed method.
- Used a **critical grounded theory** approach to analyze the collected data

Designing Voice-Assistant Technologies for Older Adults

- · Worked with Dr. Amanda Lazar and Alisha Pradhan (Ph.D student) 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 design sessions with older adults
- · Paper under review.

IoT-based Interactive Dolls for Shared Menopause Experience

- Designed & prototyped IoT-based "dolls" to support women experiencing menopause by connecting them with others experiencing the same.
- Used Particle Photon to set up a cloud-based server, connect multiple dolls, & pass & store audio-based information between the same.

Selfies & Dangerous Selfies: Understanding the Perceptions of Minors coming from Lower Socioeconomic Backgrounds in India

- Worked with Dr. Shriram Venkatraman & conducted **semi-structured interviews** with 12 to 15-year olds to understand how their socioeconomic background impacts their affordances & perception of selfies & dangerous selfie-taking behavior.
- · Proposed ethical guidelines for conducting research with minors from lower socioeconomic backgrounds given the lack of proper IRB in India.

Selected Publications

- 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. %
- 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. %
- A. Tuli, S. Chopra, P. Singh, N. Kumar: Menstrual (Im)Mobilities and Safe Spaces. CHI'20 %
- A. Tuli, S. Chopra, N. Kumar, P. Singh: Learning from & with Menstrupedia: Towards Menstrual Health Education in India. CSCW'18 🗞
- S. Chopra: Studying Intersections in Conducting Research with Minors from Lower Socioeconomic Background in India. HCI Across Borders (HCIxB), Symposium at CHI'19 %

Awards & Achievements _

- 2021 Wissner-Slivka Endowed Graduate Fellowship, UW CSE 1st year fellowship
- 2020 College of Information Studies Alumni Chapter Scholarship, Exceptional graduate student at the iSchool
- 2020 Grace Hopper Conference Scholarship, Received 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
- 2018,16 **Dean's List for Overall Contribution to Student Activities**, Exceptional contribution to activities at IIIT-D

Service_

- 2021 **Web Co-Chair**, CSCW
- 2021, 20 **Reviewer**, CHI
- 2020, 19 Mentor, "User-Centered Design of Technology for People with Dementia" workshop at TECHNICA
 - 2019 Student Volunteer, ICTD