

Shaan Chopra

GHC SCHOLAR 2020 | ACM-WOMEN SCHOLAR 2018 | GOOGLE IWD SCHOLAR 2018

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Education

University of Washington

PHD IN COMPUTER SCIENCE & ENGINEERING

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

Seattle, WA, USA

Sept 2021 - ongoing

University of Maryland - College Park

MASTER OF SCIENCE IN HUMAN-COMPUTER INTERACTION

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

College Park, MD, USA

Aug 2019 - May 2021

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

B.TECH. IN COMPUTER SCIENCE & ENGINEERING

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

New Delhi, India

Aug. 2015 - May 2019

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 • \LaTeX • Tinkercad • Figma • Invision • Balsamiq • Marvel • Sketch • Photoshop • Qualtrics • UserZoom

Experience

Parkview Mirro Center for Research and Innovation

RESEARCH INTERN

- Working with Jessica Pater on understanding data needs & communication practices between providers & Long Covid patients.
- Using a combination of **qualitative & quantitative methods** to analyze health tracking, survey, interview, and EHR data.

Fort Wayne, IN

June 2022 - Sept 2022

Appruve

USER EXPERIENCE ENGINEER INTERN

- 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 **user stories**, system requirements & **user workflows** for these Appruve products
- Applied **machine learning & computer vision** algorithms to detect & verify components of African IDs; integrated this with Appruve Identity

Newark, DE

June 2020 - Aug 2020

INRIA

RESEARCH COLLABORATOR | LOKI TEAM

- 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

Lille, France

June 2020 - Aug 2020

University of Maryland - College Park

RESEARCH ASSISTANT (UX)

- 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

College Park, MD

May 2020 - Sept 2020

CommunicateHealth, Inc.

UX RESEARCH & DESIGN COLLABORATOR

- 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**

Rockville, MD

Sept 2019 - Dec 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

Department of Information Technology - Delhi Govt.

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

- Studying 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
- Analyzing data using **inductive thematic analysis**

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.

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: A Discussion about Positionality, Research Stances, and Amplification of the “Right” Forces in Technology Design. Feminist Voices about Ecological Issues in HCI, Workshop at CHI’22. [📄](#)

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 (HClxB), 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

Teaching Assistant Experience

INST 462	Data Visualization , with Babaki Fotouhi at UMD	Spring 2021
INST 201	Introduction to Information Science , with M. R. Sauter at UMD	Spring & Fall 2020
INST 362	User-Centered Design , with Rachael Bradley-Montgomery at UMD	Fall 2019
HSS 2xx	Digital Ethnography , with Shriram Venkatraman at IIIT-D	Fall 2017

Service

2022	Student Volunteer , CHI
2022	Reviewer , CSCW
2022, 21	Reviewer , CHI
2021	Web Co-Chair , CSCW
2020, 19	Mentor , “User-Centered Design of Technology for People with Dementia” workshop at TECHNICA
2019	Student Volunteer , ICTD