

Shaan Chopra

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

☎ (240) 764-9699 | ✉ schopra7@umd.edu | 🏠 shaanchopra.com | 📱 shaan15 | 🌐 shaan-chopra

Experience

Approve

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

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

RESEARCH 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

Department of Information Technology - Delhi Govt.

Delhi, India

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

Education

University of Maryland - College Park

College Park, MD, USA

MASTER OF SCIENCE IN HUMAN-COMPUTER INTERACTION

Aug 2019 - May 2021 (expected)

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

Selected Projects

Tracking and Managing Stigmatized Enigmatic Health Conditions

- Working 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
- Conducting **in-depth interviews, participatory design & research**, and **data analysis** on an online social support platform

Design Methods for Dementia

- Working 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.
- Using 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.

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.

Skills

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

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. *Conditionally Accepted*

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. *Forthcoming*

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 

References

Eun Kyoung Choe

Associate Professor | Doctoral Program Director
University of Maryland - College Park
✉ choe@umd.edu

Ge Gao

Assistant Professor
University of Maryland - College Park
✉ gegao@umd.edu

Mayank Vatsa

Professor
IIT Jodhpur
✉ mvatsa@iitj.ac.in

Pushpendra Singh

Professor | Head of Human-Centered Design Dept
IIIT-Delhi
✉ psingh@iiitd.ac.in

Ponnurangam Kumaraguru

Professor
IIIT-Delhi
✉ pk@iiitd.ac.in

Richa Singh

Professor
IIT Jodhpur
✉ richa@iitj.ac.in