

Priyankar Bhattacharjee

PhD Researcher

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A-418 R&D IIIT-D, New Delhi, 110020, India

Professional Summary

A Human-Computer Interaction researcher, focused on designing inclusive digital experiences for older adults.

Education

PhD in Human-Computer Interaction

IIIT-Delhi, New Delhi, India | 2025 - Present

- Accessibility and Inclusive Design
- Cognitive Processes
- Digital Ethnography
- Ethics
- User Research

MS in Telecommunications Engineering

University of Nebraska-Lincoln, USA | 2012 - 2015

- Network Security
- Wireless Sensor Networks
- Web Development

BE in Electrical Engineering

Nagpur University, India | 2005 - 2009

- C Programming
- Micro-Controllers

Professional Experience

Software Development Engineer in Test 2

Comcast, India | 2022 - 2025

In this role I was mainly involved in testing software products in the telecom domain.

- Computer Networking
- Quality Assurance
- Project Planning
- Session Initiation Protocol

Researcher

University of Melbourne, Victoria, Australia | 2018 - 2022

While in this role, I learnt the intricacies and nuances of qualitative HCI research. Also, taught a course on web programming to graduate and post-graduate students.

- Semi-Structured Interviews

- Teaching Web programming

Technology Analyst

Infosys Ltd., Mt. Laurel, NJ, USA | 2016 - 2018

One of the major highlights of my time in this role was creation of a tool (dashboard) consisting of charts and graphs to allow network engineers to monitor network traffic to discover and report anomalies.

- Voice over IP
- Elasticsearch, Logstash, Kibana and JavaScript

System Application Developer

Gallup Inc., Omaha, NE, USA | 2014 - 2016

In this role, I implemented front-end and back-end code changes to improve user experience of the Gallup homepage.

- C#
- SharePoint

Software Engineer

Comviva, Bangalore, India | 2011 - 2012

In this role, I contributed to the development of several tools, and automated several manual processes to enhance the QA team's efficiency.

- C
- Selenium

Trainee Engineer

Tismo, Bangalore, India | 2010 - 2011

My first job, where I developed hands on coding experience, and contributed to the development of software for scanning tissue sample.

- C#
- C

Publications

Bhattacharjee, P., Baker, S., & Waycott, J. (2021). *Older adults and their acquisition of digital skills: A review of current research evidence*. ACM.

Conducted a systematic literature review of 22 articles examining challenges older adults face when learning digital skills. Identified five primary barrier categories and proposed recommendations for improving digital skills training.

Bhattacharjee, P. (2015). *VCare: A Personal Emergency Response System to Promote Safe and Independent Living Among Elders Staying by Themselves in Community or Residential Settings*. Master's thesis, University of Nebraska-Lincoln.

This thesis proposes an ICT solution for remote monitoring of older individuals, presenting a robust, cost-effective, and secure system design that enables caregivers to monitor functional status and receive alerts during emergencies.

Bhattacharjee, P. (2015). *Workplace monitoring of employee health using the workstation PC as a platform*. IEEE.

Proposed a novel approach to healthcare monitoring that utilizes office workstation PCs to track employee health, reducing reliance on wearable devices and traditional telehealth systems.

Bhattacharjee, P. (2015). *The Computer Mouse as health monitoring tool aimed to alleviate the negative impact of missed appointments*. IEEE.

Proposed a novel remote health monitoring approach that provides healthcare providers with real-time access to patient health status, thereby reducing the need for routine clinical visits.

Skills

Data Analysis and Visualization: Excel, Qualtrics, Dashboard Design using JavaScript, Python

Qualitative Methods: Survey Design, Semi-Structured Interviews, Literature Review, Participant Recruitment, Ethics Application, Transcribing

Software Engineering: Web Development, Software Testing, Requirements Gathering, Software Automation, Node.js, HTML5, CSS

UX Research: Digital Accessibility, WCAG, Inclusive Design, Empathy Maps, Persona, User Journeys

Awards & Honors

NSF Student Grant 2014 - U.S. National Science Foundation

The student travel grant is a funding support program sponsored by the US National Science Foundation (NSF) to help students cover costs associated with attending academic conferences and related research events.

Client Appreciation Award - Infosys Ltd. (2018)

The Infosys Client Appreciation Award recognizes employees for their exceptional collaboration, innovation, and contributions to successful project outcomes when working for an external client's project.

Certifications

How to Design For An Aging Population - Interaction Design Foundation (IxDF), 2025

Languages

Bengali (Native speaker), **English** (Fluent), **Hindi** (Fluent), **Assamese** (Fluent), **Persian** (Basic), **Nepali** (Basic)

Research Interests

Digital Inclusion of Older Adults: Ageing, Digital Divide, HCI, Gerontechnology, Digital Skills, Learning, Human Behaviour