



DEEPAK RANJAN PADHI

RESEARCHER | UI/UX DESIGNER

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About Me

Hi, I am a passionate UX designer and HCI (Human-Computer Interaction) researcher. Currently, I am in my fifth year of Ph.D. at IDC School of Design, IIT Bombay.

Research skills

User Research, designing and conducting experiments/studies, translating research insights into UX Solution/theories/models, qualitative and quantitative data analysis, research writing, design thinking, ethics in design, "how to design for the next billion users"

Design skills

Conducting interviews, contextual inquiry, designing work models, persona, scenarios, affinity mapping, rapid prototyping / visual interface design, multimodal design, instructional design, usability analysis, heuristic evaluation etc.

Tools and software proficiency

Design: Figma, Adobe Photoshop, Adobe XD, Illustrator, InDesign, Axure, Autodesk 3Ds Max, Blender, MIT app inventor, Android Studio

Collaboration: Miro, Mural, Padlet, Slack, Discord

Data analysis: Atlas.ti, Otter.ai

Simulation: MATLAB, LabVIEW, ANSYS

Others: Audacity, OBS Studio, LATEX

Photography and film making: Canon EOS M50, Premier Pro, After effects

Programming Languages: HTML5, CSS3, Python, C, C++

Hardware tools: Arduino Uno R3, Tiva TM4C123G LaunchPad, Texas MSP430 LaunchPad

My Ph.D. research

My Ph.D. is in the areas of Human-Computer Interaction and Education. The topic is "Engaging parents with less education in their children's education through hyperlocal educational videos"

EDUCATION

2016 – Present

Doctor of Philosophy | IIT Bombay, India | 8.20 CPI

Supervisor: Prof. Anirudha Joshi

2014 - 2016

Master of Design | IIITDM, Kancheepuram India | 8.79 CGPA

2012 – 2014

Master of Business Administration in HR and Production & Operation Management, Utkal University, India | 7.51 CGPA

2007 - 2011

B.Tech in Electronics and Telecommunication Engineering | Biju Patnaik University of Technology | 8.51 CGPA

ENTREPRENEURSHIP EXPERIENCE

June 2020 – Present

Co-founder and Design Head of the design research studio: "theUXWhale" [\[link\]](#)

TEACHING EXPERIENCE

LECTURESHIP

July 2021 – Present

Visiting faculty at Institute of Design, JK Lakshmi Patel University, Rajasthan

COURSE(S) CONDUCTED

5th November 2020 Voice Assistants and Voice User Interfaces (VUI), in the 11th Indian Conference on Human Computer Interaction, IndiaHCI 2020

WORKSHOP(S) CONDUCTED

May 2021 From the Margins to the Centre: Defining New Mission and Vision for HCI Research in South Asia, in the ACM CHI Conference 2021

5th November 2020 Tools and strategies to teach and learn HCI Online, in the 11th Indian Conference on Human Computer Interaction, IndiaHCI 2020

TEACHING ASSISTANT

July 2016 – July 2021 Teaching assistant at IIT Bombay
Responsibilities: Assisting the faculty members in teaching, preparing study materials, designing and evaluating assignments etc.

2017 – Present
(course repeats every year) Monsoon Course on HCI, IIT Bombay [\[Link\]](#)
This a high demanding course designed for industry professionals and practitioners to learn HCI methods and design in India. Over the years, I have helped several working professionals in learning the process of user recruitment, interviewing techniques, prototype design, interaction design, usability evaluation and user experience research.

PUBLICATIONS (RESEARCH PROJECTS)

I have **10+ publications** in the reputed ACM and IEEE conferences in the areas of interaction design, education, virtual reality, mobile HCI, systems thinking etc. Please visit to my website for more details.

DESIGN PROJECTS

I have done **8+ projects** in interaction design and **7 projects** in product design broadly in the areas of education, health care, banking & finance, public transport, home automation and e-commerce. Please visit to my website for more details.

VOLUNTEERING EXPERIENCE

2022 Proceedings chair in the EduCHI Symposium
at CHI 2022 - ACM CHI Conference on Human Factors in Computing Systems

2019 - Present Program Committee member (Reviewer) for conferences:
CHI 2021, DRS'21, CHI 2019, ICTD 2019, IndiaHCI 2019

2016 - Present Student Volunteer for conferences:
IndiaHCI 2016, INTERACT 2017, IndiaHCI 2018, IndiaHCI2020, CHI 2021

2019 - 2020 Treasurer, IIT Bombay ACM SIGCHI Student Chapter
Responsible for finance and accounting of activates of the chapter

2019 - 2021 Warden Nominee, Hostel-1, IIT Bombay
Responsible for hostel affairs administration and smooth functioning

2018 - 2019	General Secretary, Hostel-1, IIT Bombay Elected and responsible for overall hostel affairs, Hostel-1
2018 - 2019	General Secretary, Utkala Cultural Association, IIT Bombay Responsible to organize events and conduct activities in the Odia community
2018 - Present	Mentored several M.Des students in their design projects and research paper writing
2017 - Present	Helped Ph.D. students/aspirants with their research proposal making and career counselling
2018 - Present	Counsellor for parenting issues and child development
2015 - 2016	PG-PhD Placement Secretary, IIITDM, Kancheepuram
2015	Founded "Teach and Learn" Club at IIITDM, Kancheepuram
2015 - 2016	Organized food and clothes distribution camp to help migrant workers during Chennai flood 2015, Tamil Nadu
Memberships	<ul style="list-style-type: none"> • IIT Bombay ACM SIGCHI Student Chapter, Mumbai, India • Association for Computing Machinery (ACM) and SIGCHI • Institute of Electrical and Electronics Engineers (IEEE) • Interaction Design Foundation (IDF) • HCI for South Asia (HCI4SA) • Human Factors & Ergonomics Society of Australia (HFESA)

INVITED TALKS

18 December 2021	How to write a research paper using Overleaf? at 30 th Mumbai ACM SIGCHI Chapter, Mumbai
29 Oct 2021	Next Generation UX Design at Amity University, Mumbai
17 May 2021	My Ph.D. Research Journey in the Ph.D. Workshop 2021, Online, IIT Bombay
24 February 2021	Action Research in Design in the DE804 Qualitative Research Methods course at IIT Bombay
7 March 2021	Design for the mind Alumni Talk, DRIEMS Engineering College, Odisha
27 July 2019	Research on Parental Engagement ACM SIGCHI Chapter Meet, Mumbai

GRANTS RECEIVED

2019	ACM SIGCHI Gary Marsden student development fund for two SIGCHI sponsored Conferences
2019	IEEE Technical Committee on Learning Technology (TCLT) Student Travel Grant
2018	IEEE Technical Committee on Learning Technology (TCLT) Student Travel Grant
2018	ACM SIGCHI Full-time Student Sponsorship for one summer school

ACHIEVEMENTS

2020	An M.Des student's project, mentored by me, won second place in Student Research Competition at 2020 CHI Conference on Human Factors in Computing Systems [Link] Student Name: Prachi Tank Project name: Helping low literate parents engage with their children's learning [Link]
2019	Honourable mention for my contribution in the hostel council, Hostel Day, Hostel-1, IIT Bombay
2019	Special contribution award in the institute culturals, PG Cult, IIT Bombay
2016	Awarded as Mr. Fresher by UCA, IIT Bombay
2015	The drone designed by me and my teammates was used to hoist the National flag on 15th August 2015 at IIITDM and it was also published in The Hindu newspaper. [Link]
2015	Best Design and Fabrication Award by Aerotrix in 'RC Aircraft Design' workshop at Bengaluru, Jan 16 - 22, 2015.
2011	Best Student and All Rounder award during B.Tech

MY COURSEWORK

Advanced Courses and workshops	<ul style="list-style-type: none">• Course (2021) on "Human-Centered AI: Trusted, Reliable & Safe and Trustworthy" by Ben Shneiderman at HCIL Symposium 2021, University of Maryland• Workshop (2020) on Critical Design Fiction, ACM SIGCHI Student Chapter, IIT Bombay• Summer School (2019) on Voice Interaction and Voice Assistants (VIVA), TU Dresden, Germany• Workshop on Accessibility (2019), IIT Bombay, India• ACM SIGCHI Summer School (2018) on Research Methods and Approaches to Text Entry and Other Interaction Techniques, IIT Bombay, India• Qualitative and quantitative research methods courses at IIT Bombay
Design courses	Contextual inquiry, Affinity mapping, Persona, Work models, User testing, Heuristic Evaluation, Card Sorting, Focus Groups, Diary Studies, User Experience metrics, Prototyping, Design Thinking, Typography, photography, Video making, Instructional Design, Storytelling and narratives, Human Cognition theories, Learning theories and Learning Analytics.
Interaction Design Projects:	Product design principles, SCAMPER, TRIZ, Form studies, Model making and Life cycle assessment. <ul style="list-style-type: none">• Video conferencing system for schools• Diet and exercise in the post-COVID context• Home accounting app for Indian families• Net banking for kids• Sleeping box• Voice-controlled kitchen assistant

- Bus stop information system
- Opportunities to support Kirana stores in India

Product Design
Projects:

System Design and Development

- CNC Laser Cutter
- RC QuadCopter

Conceptual Design

- Multi-purpose load carrier
- Paper ink remover
- E- Tongue (Measurement of salt content in pickle bottle)
- E- Eye (Measurement of non-uniformity of paint)
- E-Nose (Device to check the quality of the meat)

HOBBIES

- Playing Guitar (Certified by Berklee College of Music) and Singing
- Organizing and participating in social events
- Practicing Yoga
- Cooking

CONTACT

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