

Pramod Chundury

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Summary

- Mixed-methods researcher and designer specializing in Human-AI Collaboration, Multimodal interaction, Data Visualization, and Accessibility.
- 7+ years of research experience spanning academia, industry (Meta, Ericsson), and cross-sector collaborations (Adobe Research, Library of Congress).
- Led interviews, co-design sessions, usability studies, and experiments with partners including Adobe Research, Maryland State Department of Education (MSDE), and the Library of Congress.
- Published in top-tier venues such as ACM CHI, ACM ASSETS, and IEEE VIS, with contributions spanning accessible technologies, data visualization, and user-centered privacy.

Education

Ph.D. in Information Studies (3.9/4.0) University of Maryland, College Park, MD, USA Dissertation: <i>Designing Multimodal Touchscreen Interactions For Accessible Data Visualization Supporting Blind Users</i> Advisors: Dr. Jonathan Lazar and Dr. Niklas Elmqvist	August 2018 - May 2025
M.S. in Human-Computer Interaction (3.9/4.0) University of Maryland, College Park, MD, USA Mentors: Dr. Marshini Chetty and Dr. Leah Findlater	August 2015 - May 2017
B.E. in Computer Science Anna University, Chennai, TN, India	June 2007 - April 2011

Employment

Data Scientist Data and Design, LLC, Davidsonville, MD	January 2026 - Present
Research Consultant University of Maryland, College Park, MD, USA	June 2025 - December 2025
Graduate Research Assistant University of Maryland, College Park, MD, USA	September 2020 - May 2025
Graduate Teaching Assistant University of Maryland, College Park, MD, USA	September 2019 - August 2020
Graduate Research Assistant University of Maryland, College Park, MD, USA	August 2018 - August 2019
User Experience Researcher Meta Inc. (via Filter), Menlo Park, CA, USA	April 2018 - July 2018

Research Assistant University of Washington, Seattle, WA, USA	September 2017 - March 2018
User Experience Intern Ericsson, Manchester, NH, USA	May 2016 - December 2016
Graduate Research Assistant University of Maryland, College Park, MD, USA	March 2016 - December 2016
Application Developer Deloitte Consulting, Bengaluru, KA, India	June 2011 - May 2015

Research Experience

Enhancing Accessibility of Visual Cultural Heritage University of Maryland and Library of Congress	June 2025 - December 2025
Accessible Data Visualization University of Maryland and Aarhus University	July 2020 - May 2025
Designing Accessible Data Science and CS Courses University of Maryland, MSDE, and Data11y	January 2022 - September 2023
AI for Supporting Creative Collaboration University of Maryland and Adobe Research	May 2021 - December 2021
Designing and Evaluating Visual Analytics Tools for Medical Research Professionals University of Maryland	September 2020 - December 2021
Generating Textual Narratives for Causal Visualization University of Maryland and Virginia Tech	January 2020 - May 2020
Exploring Personal Tracking in Groups for Amateur Sports Teams University of Maryland	August 2018 - December 2019
Touchscreen Accessibility for People with Motor Impairments University of Maryland and University of Washington	September 2016 - March 2018
User Perceptions of Privacy and Security Surrounding Personal Drones University of Maryland	March 2016 - May 2017

Publications

Conference and Journal Articles (Peer-reviewed)

2026. **“Metadata is wonderful, but there’s a coldness to it”: exploring the visual accessibility of cultural heritage through participatory design.**

Victoria Van Hying and Pramod Chundury.

Information Research an International Electronic Journal (iConference).

2026. **Sound, Touch, or the Full Monty? A Comparative Study of Data Accessibility Techniques for Blind Users.**

Pramod Chundury, J. Bern Jordan, Yasmin Reyazuddin, Niklas Elmqvist, and Jonathan Lazar.

ACM Transactions on Accessible Computing (TACCESS - under review).

2024. Understanding the Visualization and Analytics Needs of Blind and Low-Vision Professionals.

Pramod Chundury, Urja Thakkar, Yasmin Reyazuddin, J. Bern Jordan, Niklas Elmqvist, and Jonathan Lazar.

SIGACCESS Conference on Computers and Accessibility (ACM ASSETS).

2023. TactualPlot: Spatializing Data as Sound using Sensory Substitution for Touchscreen Accessibility.

Pramod Chundury, Yasmin Reyazuddin, J. Bern Jordan, Jonathan Lazar, and Niklas Elmqvist.

IEEE transactions on visualization and computer graphics (IEEE VIS).

2022. Contextual In Situ Help for Visual Data Interfaces.

Pramod Chundury, Mehmet Adil Yalcin, Jonathan Crabtree, Anup Mahurkar, Lisa M Shulman, and Niklas Elmqvist.

Information Visualization.

2021. Towards Understanding Sensory Substitution for Accessible Visualization: An Interview Study.

Pramod Chundury, Biswaksen Patnaik, Yasmin Reyazuddin, Christine Tang, Jonathan Lazar, and Niklas Elmqvist.

IEEE transactions on visualization and computer graphics (IEEE VIS).

2021. Once Upon A Time In Visualization: Understanding the Use of Textual Narratives for Causality.

Arjun Choudhry, Mandar Sharma, Pramod Chundury, Thomas Kapler, Derek Gray, Naren Ramakrishnan, and Niklas Elmqvist.

IEEE transactions on visualization and computer graphics (IEEE VIS).

2019. Motor Accessibility of Smartwatch Touch and Bezel Input.

Meethu Malu, Pramod Chundury, and Leah Findlater.

ACM SIGACCESS Conference on Computers and Accessibility (ACM ASSETS)

2018. Exploring Accessible Smartwatch Interactions for People with Upper Body Motor Impairments.

Meethu Malu, Pramod Chundury, and Leah Findlater.

Conference on Human Factors in Computing Systems (ACM CHI).

2017. Spiders in the Sky: User Perceptions of Drones, Privacy, and Security.

Victoria Chang, Pramod Chundury, and Marshini Chetty.

Conference on Human Factors in Computing Systems (ACM CHI).

Edited Publications

2025. Building Multimodal Chart Accessibility for Blind and Low-Vision Individuals in the Prompt-Driven Era.

Pramod Chundury.

ACM XRDS (Crossroads)

Doctoral Colloquium

2023. Designing Multimodal Touchscreen Interactions For Accessible Data Visualization Supporting Blind Users.

Pramod Chundury.

IEEE VIS Doctoral Colloquium

Talks

2025. **TactualPlot: Spatializing Data as Sound using Sensory Substitution for Touchscreen Accessibility.**

3rd Korea Visualization Workshop (K-VIS 2025)

2024. **TactualPlot: Spatializing Data as Sound using Sensory Substitution for Touchscreen Accessibility.**

Human-Computer Interaction Lab Symposium, University of Maryland

2019. **Personal Tracking in Groups: Exploring Tracking Behavior in Sports Teams.**

Annual Physical Cultural Studies Graduate Student Conference, University of Maryland

Press Coverage

2022. **Expanding the Possibilities for Accessible Data Visualization.** *UMD iSchool*

2020. **PhD Student Spotlight: Pramod Chundury.** *UMD iSchool*

Teaching Experience

Teaching Assistant, University of Maryland, College Park

INST 327 – Database Design and Modeling Summer 2020

INST 127 – Introduction to Programming (Python) Spring 2020

INST 462 – Introduction to Data Visualization Fall 2019

Guest Lecturer, University of Maryland, College Park

INST 760 – Data Visualization (*Accessible Data Visualization*) Fall 2023

Awards

Travel Grant for Doctoral Colloquium (IEEE VIS) 2023

Research Improvement Grant (University of Maryland) 2019

HCIM Travel Award (University of Maryland) 2017

Beyond These Walls Travel Award (University of Maryland) 2017

Outstanding Award for Exceptional Work (Deloitte Consulting) 2014

Applause Award for Innovation (Deloitte Consulting) 2014

Applause Award for Client Service (Deloitte Consulting) 2014

Research and Development Skills

Research

Controlled experiments, Quantitative and Qualitative Data Analysis, Interviews, Contextual Inquiry, Survey Design, Prototyping, Participatory Design, Cognitive Walkthroughs, Heuristic Evaluation, Usability and Accessibility Testing.

Programming and Frameworks

Python, HTML, CSS, Flask, JavaScript, C/C++, Swift, SQL, ABAP, Apache Cordova, and Web Audio API.

Machine Learning and Visualization

Pandas, Scikit-learn, OpenCV, LangChain, D3.js, Vega-Lite, Seaborn, and Matplotlib.

Software and Hardware

Tableau, Adobe (Photoshop, Illustrator), Figma, SPSS, LaTeX, Git, Visual Studio, Xcode, Android Studio, Refreshable Braille Displays, and 3D-Printing.

Academic Service

Organizing Committees

Paper Chair - 2nd Workshop on Accessible Data Visualization 2025

Co-Chair - 1st Workshop on Accessible Data Visualization 2024

Peer Reviewer

ACM CHI; ACM TOCHI; ACM DIS; Journal of Visual Impairment & Blindness; 2019 - Present
Universal Access in Information Society; IEEE VIS, IEEE TVCG; EuroVis;
Journal of Computer Languages; Scientific Reports

Special Recognition for Outstanding Reviews

ACM CHI (2 awards) 2026

ACM DIS 2025

ACM CHI 2024

Student Volunteer

Human-Computer Interaction Lab Symposium 2016 – 2024

ACM Designing Interactive Systems (DIS) 2019

Mentoring

Enric Hongxiao Jiao, CS undergraduate, University of Maryland 2024

Urja Thakkar, MS in HCI, University of Maryland 2024

Christine W Tang, Poolesville High School 2019

Tyler Pavay, CS undergraduate, University of Maryland 2019

Tyson Nguyen, Information Science undergraduate, University of Maryland 2019

ABAP programming mentor, Deloitte Consulting, India 2012 - 2015

Math and English tutor, Zilla Parishad High School, India 2012