

# 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) Aug 2018 - May 2025

University of Maryland, College Park, MD, USA

*Advisors: Dr. Jonathan Lazar and Dr. Niklas Elmqvist*

**M.S. in Human-Computer Interaction** (3.9/4.0) Aug 2015 - May 2017

University of Maryland, College Park, MD, USA

*Mentors: Dr. Marshini Chetty and Dr. Leah Findlater*

**B.E. in Computer Science** Jun 2007 - Apr 2011

Anna University, Chennai, TN, India

## Research and Work Experience

**University of Maryland, College Park, MD, USA | Researcher** Jun 2025 - Present

- **Enhancing Accessibility of Visual Cultural Heritage:** Led participatory design research with blind and low-vision professionals to design inclusive access to image archives, collaborating with the Library of Congress to evaluate human-AI workflows for semi-automated image description using VLMs and LLMs. Currently examining trade-offs between automation, user control, and output quality.

**University of Maryland, College Park, USA | Research/Teaching Assistant** Aug 2018 - May 2025

- **Accessible Data Visualization:** Led mixed-methods research on touch, sound, and multimodal interactions for chart accessibility; designed and evaluated TactualPlot (published in IEEE VIS and ACM ASSETS). Conducted workshops to assess inclusive CS and Data Science curricula.
- **AI for Creative Collaboration (Adobe Research):** Conducted qualitative research with designers to identify breakdowns and opportunities in human-AI collaboration, informing the design of Adobe's AI-assisted creative tools.
- **POD-Vis Usability (Medical Informatics):** Improved a visual analytics platform for clinicians and researchers through usability studies (~50 participants) and in-app help features; published in Information Visualization.
- **Textual Narratives for Causal Visualizations:** Led a crowdsourced study on generated narratives for causal visualizations and evaluated the CauseWorks system integrating network analysis, NLG, and visualization.
- **Teaching:** Guest lectured on accessible data visualization; TA for Python Programming, Database Design, and Data Visualization.

**Meta Inc., Menlo Park, USA | User Experience Researcher (Contract)** Apr 2018 - Jul 2018

- Led UserZoom studies on Facebook App features (Targeted Tabs, Tab Notifications), benchmarking them against competitor apps to inform and assess the new Targeted Tabs feature.
- Coordinated the cross-functional rolling research program and contributed to internal quality audits using video analysis and heuristic evaluation to generate quantified usability benchmarks.

**University of Washington, Seattle, WA, USA | Research Assistant (Remote)** Sep 2017 - Mar 2018

- Designed and conducted controlled studies on motor accessibility for smartwatch interactions. Developed an Apple Watch app for user testing and analyzed behavioral data to identify accessibility challenges; published in ACM CHI and ASSETS.

**Ericsson, Manchester, NH, USA | User Experience Intern** May 2016 - Dec 2016

- Conducted stakeholder interviews (network planners and engineers) to inform new interface features and workflow simplification for Ericsson's inventory management tool - Ericsson Adaptive Inventory. Designed visual analytics dashboards (Table & Node-link views) for network engineers managing adaptive inventory.

**University of Maryland, College Park, MD, USA | Research Assistant** Mar 2016 - Dec 2016

- Co-led a qualitative study exploring privacy and security perceptions of drones (published in ACM CHI). Built an iPad app for user-controlled drone flights, conducted interviews and interaction sessions, and analyzed qualitative data to reveal implications for privacy and policy design.

**Deloitte Consulting USA, Bengaluru, KA, India | Application Developer** Jun 2011 - May 2015

- Worked as an SAP application developer supporting enterprise processes for 5 different clients. Designed and optimized user workflows, built data integration tools, and collaborated with cross-functional and international teams. Recognized with multiple awards for exceptional work.

## 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, Web Audio API, and WCAG.

**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.

## Awards and Honors

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| • Travel Grant for Doctoral Colloquium (IEEE VIS)                           | 2023 |
| • Research Improvement Grant (University of Maryland)                       | 2019 |
| • 2 Travel Awards (University of Maryland)                                  | 2017 |
| • Outstanding Award for Exceptional Work, 2 (Deloitte Consulting)           | 2014 |
| • 2 Applause Awards for innovation and client service (Deloitte Consulting) | 2014 |

## Publications and Academic Accomplishments

- For a recent list of publications, please visit my [Google Scholar profile](#).
- Served on organizing committees for the IEEE VIS Workshops on Accessible Data Visualization (2024,2025) and as a peer reviewer for leading venues including ACM CHI, IEEE VIS, TOCHI, and more, earning multiple recognitions for outstanding and highly useful reviews.