

Ananya Gubbi Mohanbabu

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Research Interests

My research focuses on designing AI for accessibility using user interaction modeling. I develop systems that understand and improve how humans interact with computers (especially screen reader workflows) for task-aligned assistance and accessible human–AI collaboration. I build practical and deployable AI systems that support blind and low-vision users and meaningfully benefit a broader range of users.

Education

2024–now University of California, Berkeley, CA
(Previously at University of Texas at Austin, 2024–2025)
Ph.D. in Computer Science
Advisor: Dr. Amy Pavel

2022–2024 The University of Texas at Austin, TX
M.S. in Information Studies (Major: Human-Computer Interaction)
Advisor: Dr. Yan Zhang, Dr. Amy Pavel; GPA: 4.0/4.0

2018–2022 RV College of Engineering, Bengaluru, India
B.E. in Information Science and Engineering
GPA: 9.12/10.0

Publications

Full Papers

3. **Ananya Gubbi Mohanbabu**^{*}, Rosiana Natalie^{*}, Brandon Kim, Anhong Guo⁺, Amy Pavel⁺. A11y-CUA Dataset: Characterizing the Accessibility Gap in Computer Use Agents. *CHI 2026*.
2. **Ananya Gubbi Mohanbabu**, Yotam Sechayk, Amy Pavel. Task Mode: Dynamic Filtering for

Task-Specific Web Navigation using LLMs. *ASSETS 2025*.

1. **Ananya Gubbi Mohanbabu**, Amy Pavel. Context-Aware Image Descriptions for Web Accessibility. *ASSETS 2024*.

Workshops

1. **Ananya Gubbi Mohanbabu**, Amy Pavel. Context-Aware Image Descriptions for Web Accessibility. *Generative AI and Accessibility Workshop, CHI 2025*.

Research Experience

2025–now	Department of Electrical Engineering and Computer Science, University of California, Berkeley Graduate Student Researcher Advisor: Dr. Amy Pavel
2024–2025	Department of Computer Science, The University of Texas at Austin Graduate Research Assistant Advisor: Dr. Amy Pavel
2023	School of Information, The University of Texas at Austin Graduate Research Assistant Advisor: Dr. Yan Zhang
Summer 2023	University of Pittsburgh Graduate Research Assistant PittNAIL (Clinical NLP and AI Innovation Lab), Advisor: Dr. Yanshan Wang

Work Experience

Spring 2022	Morgan Stanley, Bengaluru Technology Analyst Intern, Application Infrastructure Team Supervisor: Sohan D'Souza
Summer 2021	Morgan Stanley, Bengaluru Technology Analyst Intern, End User Technology Team Supervisor: Rahul Salian

Awards

- 2022 Best Outgoing Student, Department of Information Science and Engineering, RV College of Engineering.
- 2015 National Talent Search Examination (NTSE), National Council of Educational Research and Training, India, State Rank: 20
- 2014 State Level Talent Award, Department of Women & Child Development, Government of Karnataka, India.
- 2013 Inspire Award, Department of Science & Technology, Government of India.

Services

Academic Reviewing

CHI 2025

Student Volunteering

UIST 2025

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