

Amy Pavel

University of California, Berkeley
Assistant Professor
Department of Electrical Engineering and Computer
Sciences
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EDUCATION

UC Berkeley, EECS PhD in Computer Science Advisors: Björn Hartmann (Berkeley), Maneesh Agrawala (Stanford) Additional Committee Members: Eric Paulos, Abigail De Kosnik	Berkeley, CA Awarded 2019
UC Berkeley, College of Engineering BS in Electrical Engineering and Computer Science	Berkeley, CA Awarded 2013

RESEARCH POSITIONS

University of California, Berkeley , <i>Assistant Professor</i> Department of Electrical Engineering and Computer Sciences	Berkeley, CA 2025-Present
University of Texas at Austin , <i>Affiliate Assistant Professor</i> Department of Computer Science	Austin, TX 2025-Present
Google , <i>Visiting Faculty Researcher</i> Google Research. Remote, 20% appointment	Mountain View, CA 2024-2025
University of Texas at Austin , <i>Assistant Professor</i> Department of Computer Science	Austin, TX 2022-2025
Apple Inc , <i>Research Scientist (50% time)</i> AI/ML. Machine Intelligence Accessibility Group	Cupertino, CA 2019-2022
Carnegie Mellon University , <i>Postdoctoral Fellow (50% time)</i> HCII. Supervised by Professor Jeffrey P. Bigham	Pittsburgh, PA 2019-2021
University of California, Berkeley , <i>Graduate Researcher</i> Visual Computing Lab. Advised by Professors Björn Hartmann and Maneesh Agrawala	Berkeley, CA 2013-2019
Adobe , <i>Research Intern</i>	Seattle, WA

Creative Technologies Lab. Advised by Principal Scientist Dan Goldman

Summer 2014, Summer 2015

University of California, Berkeley, *Undergraduate Researcher*

Berkeley, CA

BiD Lab, Visual Computing Lab. Advised by Professors Björn Hartmann and Manneesh Agrawala

2011-2013

PEER REVIEWED PUBLICATIONS (PAPERS)

ACM UIST and *ACM CHI* are top conferences for technical HCI work and *ACM ASSETS* is the top conference for Accessibility work. In Computer Science, the primary student author typically appears first in the author list, and the lead faculty mentor appears last.

Mina Huh, Zihui Xue, Ujjaini Das, Kumar Ashutosh, Kristen Grauman, **Amy Pavel**. “Vid2Coach: Transforming How-To Videos into Task Assistants” *To Appear at UIST 2025* October 2025

Yi-Hao Peng, Dingzeyu Li, Jeffrey P. Bigham, **Amy Pavel**. “Morae: Proactively Pausing UI Agents for User Choices” *To Appear at UIST 2025* October 2025

Karim Benharrak, Puyuan Peng, **Amy Pavel**. “TalkLess: Blending Extractive and Abstractive Speech Summarization for Editing Speech to Preserve Content and Style” *To Appear at UIST 2025* October 2025

Ruolin Wang, Xingyu Liu, Biao Wang, Wayne Zhang, Ziqian Liao, Ziwen Li, **Amy Pavel**, Xiang ”Anthony” Chen. “CoSight: Exploring Viewer Contributions to Online Video Accessibility Through Descriptive Commenting” *To Appear at UIST 2025* October 2025

Meng Chen, Akhil Iyer, **Amy Pavel**. “Surfacing Variations to Calibrate Perceived Reliability of MLLM-generated Image Descriptions” *To Appear at ASSETS 2025* October 2025

Ananya Gubbi Mohanbabu, Yotam Sechayk, **Amy Pavel**. “Task Mode: Dynamic Filtering for Task-Specific Web Navigation using LLMs” *To Appear at ASSETS 2025* October 2025

Yotam Sechayk, Ariel Shamir, **Amy Pavel**, Takeo Igarashi. “VeasyGuide: Personalized Visual Guidance for Low-vision Learners on Instructor Actions in Presentation Videos” *To Appear at ASSETS 2025* October 2025

Mina Huh, Dingzeyu Li, Kim Pimmel, Valentina Hijung, **Amy Pavel**, Mira Dontcheva. “VideoDiff: Human-AI Video Co-Creation with Alternatives” *CHI 2025* May 2025

Aadit Barua, Karim Benharrak, Meng Chen, Mina Huh, **Amy Pavel**. “Lotus: Creating Short Videos From Long Videos With Abstractive and Extractive Summarization” *IUI 2025* March 2025

Mina Huh, **Amy Pavel**. “DesignChecker: Visual Design Support for Blind and Low Vision Web Developers” *UIST 2024* October 2024

Mina Huh, Fangyuan Xu, Yi-Hao Peng, Chongyan Chen, Hansika Murugu, Danna Gurari, Eunsol Choi, **Amy Pavel**. “Long-Form Answers to Visual Questions from Blind and Low Vision People” *COLM 2024* — **Oral Spotlight** October 2024

Ananya Gubbi Mohanbabu, Amy Pavel . “Context-Aware Image Descriptions for Web Accessibility” <i>ASSETS 2024</i>	October 2024
Laura South, Caglar Yildirim, Amy Pavel , Michelle A. Borkin. “Design Considerations for Photosensitivity Warnings in Visual Media” <i>ASSETS 2024</i>	October 2024
Yi-Hao Peng, Faria Huq, Yue Jiang, Jason Wu, Amanda Xin Yue Li, Jeffrey P. Bigham, Amy Pavel . “DreamStruct: Understanding Slides and User Interfaces via Synthetic Data Generation” <i>ECCV 2024</i>	October 2024
Laura South, Caglar Yildirim, Amy Pavel , Michelle A. Borkin. “Barriers to Photosensitive Accessibility in Virtual Reality” <i>CHI 2024</i> — Best Paper Honorable Mention Award	May 2024
Tess Van Daele, Akhil Iyer, Yuning Zhang, Jalyn Derry, Mina Huh, Amy Pavel . “ShortScribe: Making Short-Form Videos Accessible with Hierarchical Video Summaries” <i>CHI 2024</i>	May 2024
Stephanie Valencia, Jessica Huynh, Emma Y Jiang, Yufei Wu, Teresa Wan, Zixuan Zheng, Henny Admoni, Jeffrey P. Bigham, Amy Pavel . “COMPACT: Using Conversation Context to Achieve Common Ground in AAC” <i>CHI 2024</i>	May 2024
Haitao Yang, Bo Sun, Liyan Chen, Amy Pavel , Qixing Huang. “GeoLatent: A Geometric Approach to Latent Space Design for Deformable Shape Generators” <i>SIGGRAPH ASIA 2023</i>	December 2023
Mina Huh, Yi-Hao Peng, Amy Pavel . “GenAssist: Making Image Generation Accessible” <i>UIST 2023</i> — Best Paper Award	October 2023
Daniel Killough, Amy Pavel . “Exploring Community-Driven Descriptions for Making Livestreams Accessible” <i>ASSETS 2023</i>	October 2023
Mina Huh, Saelyne Yang, Yi-Hao Peng, Xiang ”Anthony” Chen, Young-Ho Kim, Amy Pavel . “AVscript: Accessible Video Editing with Audio-Visual Scripts” <i>CHI 2023</i>	April 2023
Jeremy Warner, Amy Pavel , Tonya Nguyen, Maneesh Agrawala, Björn Hartmann. “SlideSpecs: Automatic and Interactive Presentation Feedback Collation” <i>IUI 2023</i>	April 2023
Yi-Hao Peng, Jason Wu, Jeffrey P. Bigham, Amy Pavel . “Diffscriber: Describing Visual Design Changes to Support Mixed-Ability Collaborative Presentation Authoring” <i>UIST 2022</i>	October 2022
Xingyu Liu, Ruolin Wang, Dingzeyu Li, Xiang ”Anthony” Chen, Amy Pavel . “CrossA1ly: Identifying Video Accessibility Issues via Cross-modal Grounding” <i>UIST 2022</i> — Best Paper Award	October 2022
Yasmine Kotturi, Herman T Johnson, Michael Skirpan, Sarah E Fox, Jeffrey P. Bigham, Amy Pavel . “Tech Help Desk: Support for Local Entrepreneurs Addressing the Long Tail of Computing Challenges” <i>CHI 2022</i>	April 2022
Candace Williams, Lilian de Greef, Ed Harris III, Amy Pavel , Cynthia L. Bennett. “Toward supporting quality alt text in computing publications” <i>W4A 2022</i>	April 2022

Junhan Kong, Dena Sabha, Jeffrey P. Bigham, Amy Pavel , Anhong Guo. “TutorialLens: authoring Interactive augmented reality tutorials through narration and demonstration” <i>SUI 2021</i>	November 2021
Yi-Hao Peng, Jeffrey P. Bigham, Amy Pavel . “Slidecho: Flexible Non-Visual Exploration of Presentation Videos” <i>ASSETS 2021</i>	October 2021
Stephanie Valencia, Michal Luria, Amy Pavel , Jeffrey P. Bigham, Henny Admoni. “Co-designing Socially Assistive Sidekicks for Motion-based AAC” <i>HRI 2021</i>	March 2021
Xingyu Liu, Patrick Carrington, Xiang ”Anthony” Chen, Amy Pavel . “What Makes a Video Non-Visually Accessible?” <i>CHI 2021</i>	May 2021
Yi-Hao Peng, JiWoong Jang, Jeffrey P. Bigham, Amy Pavel . “Say It All: Feedback for Improving Non-Visual Presentation Accessibility” <i>CHI 2021</i>	May 2021
Prakhar Gupta, Jeffrey P. Bigham, Yulia Tsvetkov, Amy Pavel . “Controlling Dialogue Generation with Semantic Exemplars.” <i>NAACL 2021</i>	June 2021
Amy Pavel , Gabriel Reyes, Jeffrey P. Bigham. “Rescribe: Authoring and Automatically Editing Audio Descriptions.” <i>UIST 2020</i> (~22% acceptance rate, 10 pages) – Highlighted in Future of CSCW/UIST Plenary, and UIST Keynote.	October 2020
Cole Gleason, Stephanie Valencia, Lynn Kirabo, Jason Wu, Anhong Guo, Elizabeth J. Carter, Jeffrey P. Bigham, Cynthia L. Bennett, Amy Pavel . “Disability and the COVID-19 Pandemic: Using Twitter to Understand Accessibility during Rapid Societal Transition.” <i>ASSETS 2020</i> (28% acceptance rate, 10 pages)	October 2020
Cole Gleason, Amy Pavel , Himalini Gururaj, Kris M. Kitani, Jeffrey P. Bigham. “Making GIFs Accessible.” <i>ASSETS 2020</i> (28% acceptance rate, 10 pages)	October 2020
Jaylin Herskovitz, Jason Wu, Samuel White, Amy Pavel , Gabriel Reyes, Anhong Guo, Jeffrey P. Bigham. “Making Mobile Augmented Reality Applications Accessible.” <i>ASSETS 2020</i> (28% acceptance rate, 10 pages)	October 2020
Stephanie Valencia, Amy Pavel , Jared Santa Maria, Seunga (Gloria) Yu, Jeffrey P. Bigham, Henny Admoni. “Conversational Agency in Augmentative and Alternative Communication.” <i>CHI 2020</i> (24.3% acceptance rate, 10 pages) — Best Paper Honorable Mention Award	May 2020
Cole Gleason, Amy Pavel , Emma McCamey, Christina Low, Patrick Carrington, Kris M. Kitani, Jeffrey P. Bigham. “Twitter A11y: A Browser Extension to Make Twitter Images Accessible.” <i>CHI 2020</i> (24.3% acceptance rate, 10 pages) — Best Paper Honorable Mention Award	May 2020
Prakhar Gupta, Shikib Mehri, Tiancheng Zhao, Amy Pavel , Maxine Eskenazi, Jeffrey P. Bigham. “Investigating Evaluation of Open-Domain Dialogue Systems With Human Generated Multiple References.” <i>SIGDIAL 2019</i> (10 pages)	October 2019
Cole Gleason, Amy Pavel , Xingyu Liu, Patrick Carrington, Lydia Chilton, Jeffrey P. Bigham. “Making Memes Accessible.” <i>ASSETS 2019</i> (26% acceptance rate, 10 pages)	October 2019

- Vincent Sitzmann, Ana Serrano, **Amy Pavel**, Maneesh Agrawala, Diego Gutierrez, Belen Masia, Gordon Wetzstein. “Saliency in VR: How do people explore virtual environments?” *IEEE VR 2018* (22.5% acceptance rate, 9 pages) March 2018
- Amy Pavel**, Björn Hartmann, Maneesh Agrawala. “Shot Orientation Controls for Interactive Cinematography with 360 video.” *UIST 2017* (22.5% acceptance rate, 9 pages) October 2017
- Amy Pavel**, Dan B Goldman, Björn Hartmann, Maneesh Agrawala. “Vidcrit: Video-based Asynchronous Video Review.” *UIST 2016* (20.6% acceptance rate, 12 pages) October 2016
- Amy Pavel**, Dan B Goldman, Björn Hartmann, Maneesh Agrawala. “SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries.” *UIST 2015* (23% acceptance rate, 10 pages) October 2015
- Kurt Luther, Jari-lee Tolentino, Wei Wu, **Amy Pavel**, Brian P Bailey, Maneesh Agrawala, Björn Hartmann, Steven Dow. “Structuring, Aggregating, and Evaluating Crowdsourced Design Critique.” *CSCW 2015* (28.3% acceptance rate, 13 pages) March 2015
- Amy Pavel**, Colorado Reed, Björn Hartmann, Maneesh Agrawala. “Video Digests: A Browseable, Skimmable Format for Informational Lecture Videos.” *UIST 2014* (22.2% acceptance rate, 10 pages) October 2014

LIGHTLY PEER REVIEWED PUBLICATIONS (POSTERS, WORKSHOPS)

- Meng Chen, **Amy Pavel**. “TaskArtisan: Flexible Authoring and Manipulation of Task-specific Interactive Widgets via Sketch and Voice” *UIST 2025 Posters* October 2025
- Katie Clark, **Amy Pavel**. “Simultaneously Generating Multiple Mediums of Tactile Graphics” *ASSETS 2025 Posters and Demos* October 2025
- Riku Arakawa, Franklin Mingzhe Li, Nandi Zhang, Mina Huh, **Amy Pavel**, Ryo Suzuki, Patrick Carrington, Yukang Yan. “Accessible Cyber-Physical Activities” *UIST 2025 Workshops* October 2025
- Kate Glazko, Mina Huh, Jazette Johnson, **Amy Pavel**, Jennifer Mankoff. “Generative AI and Accessibility Workshop: Surfacing Opportunities and Risks” *CHI 2025 Workshop* May 2025
- Laura South, Caglar Yildirim, **Amy Pavel**, Michelle A. Borkin. “Exploratory Thematic Analysis of Crowdsourced Photosensitivity Warnings” *CHI 2023 Extended Abstracts* April 2023
- Kundan Krishna, **Amy Pavel**, Benjamin Schloss, Jeffrey P. Bigham, Zachary Lipton. “Extracting Structured Data from Doctor-Patient Conversations By Predicting Noteworthy Utterances.” *W3PHIAI 2020 Workshop Paper* February 2020
- Christina Low, Emma McCamey, Cole Gleason, **Amy Pavel**, Emma McCamey, Patrick Carrington, Jeffrey P. Bigham. “Twitter A11y: A Browser Extension to Make Twitter Images Accessible.” *ASSETS 2019 Posters* (Poster) October 2020

- Kurt Luther, **Amy Pavel**, Wei Wu, Jari-lee Tolentino, Maneesh Agrawala, Björn Hartmann, Steven Dow. “CrowdCrit: Crowdsourcing and Aggregating Visual Design Critique.” *CSCW 2014 Extended Abstracts* (Extended Abstract) March 2014
- Amy Pavel**, Floraine Berthouzoz, Björn Hartmann, Maneesh Agrawala. “Sifter: Analyzing and Exploring Large Collections of Web-Based Image Manipulation Tutorials.” *TECHCON 2012* (Poster) October 2012

THESIS, PREPRINTS, AND TECHNICAL REPORTS

- Kundan Krishna, **Amy Pavel**, Benjamin Schloss, Jeffrey P. Bigham, Zachary Lipton. “Extracting Structured Data from Physician-Patient Conversations By Predicting Noteworthy Utterances.” *arXiv:2007.07151* July 2020
- Amy Pavel**. “Navigating Video Using Structured Text” *PhD in Computer Science, University of California, Berkeley* Committee: Professors Björn Hartmann (Berkeley EECS), Maneesh Agrawala (Stanford), Eric Paulos (Berkeley New Media and EECS), and Abigail De Kosnick (Berkeley Department of Theater, Dance and Performance, and New Media). May 2019
- Amy Pavel**, Floraine Berthouzoz, Björn Hartmann, Maneesh Agrawala. “Browsing and Analyzing Command Structure of Large Collections of Image Manipulation Tutorials.” *UC Berkeley Technical Report, EECS-2013-167* October 2013

AWARDS AND GRANTS

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| Google ML and Systems Junior Faculty Award | 2025 |
| ND Tech Ethics Award | 2025 |
| Apple Gift Funding | 2024 |
| COLM Oral Spotlight Paper | 2024 |
| CHI Honorable Mention | 2024 |
| UIST Best Paper Award | 2023 |
| UIST Best Paper Award | 2022 |
| Adobe Gift Funding | 2022, 2023, 2024 |
| Selected for EECS Rising Stars | 2020 |
| CHI Honorable Mention | 2020 |
| CHI Honorable Mention | 2020 |
| Future of Work NSF Grant Co-PI | 2019 |
| Outstanding Graduate Student Instructor (UC Berkeley EECS) | 2018 |
| National Defense Science and Engineering Graduate Fellowship (NDSEG) | Fall 2015-2018 |
| Sandisk Graduate Fellowship | Spring 2014 |
| UC Berkeley EECS Excellence Award | Fall 2013 |
| CRS Outstanding Undergraduate Researcher – <i>Honorable Mention</i> | Spring 2013 |
| Intel SRC Undergraduate Research Opportunities | Fall 2011-2013 |

AWARDS WON BY STUDENTS

Google PhD Fellowship (2 Years) – Mina Huh 2024

SERVICE

Program Committees

ACM CHI PC Committee Member (Subcommittee: Blending Interaction)	Fall 2024
ACM UIST PC Committee Member	Summer 2024
ACM ASSETS PC Committee Member	Summer 2024
ACM CHI PC Committee Member (Subcommittee: Blending Interaction)	Fall 2023
ACM UIST PC Committee Member	Summer 2023
ACM ASSETS PC Committee Member	Summer 2023
ACM FAcCT PC Committee Member	Spring 2023
ACM CHI PC Committee Member (Subcommittee: Blending Interaction)	Fall 2022
ACM UIST PC Committee Member	Summer 2022
ACM SIGGRAPH Asia PC Committee Member	Fall 2021
ACM CHI PC Committee Member (Subcommittee: Blending Interaction)	Fall 2021
ACM UIST PC Committee Member	Summer 2021
ACM CHI PC Committee Member (Subcommittee: Computational Interaction)	Fall 2020
ACM UIST PC Committee Member	Summer 2020

Grant Review Panels

NIDILRR Panel Reviewer	2024
NSF Panel Reviewer	2023

Research Community and Organizing

ACM UIST Best Paper Committee Member	Fall 2024
ACM CHI Best Paper Committee Member	Fall 2023
ACM CHI Generative AI and Accessibility Workshop Organizer	2025
ACM UIST, Student Volunteer's 'Rockstars' Lunch Invited Guest	2024
ACM UIST Panelist: Women of UIST	2024
ACM UIST Demo Awards Judge	2024
ACM UIST Panelist: Women's Lunch	2023
EECS Rising Stars (UT Austin) Co-Organizer	2022
ACM UIST Digital Experience Co-Chair	2021
HCOMP CrowdCamp Workshop Co-Organizer	2020

Student Volunteering

ACM UIST PC Meeting, Student Volunteer	Summer 2016
ACM CHI Conference, Student Volunteer	Spring 2016
ACM CHI PC Meeting, Student Volunteer	Spring 2016
ACM UIST PC Meeting, Student Volunteer	Summer 2015

Department Committees

Graduate Student Search Committee (UT Austin, Computer Science)	Spring 2025
Honors Thesis Committee (UT Austin, Computer Science)	Fall 2024
Honors Thesis Committee (UT Austin, Computer Science)	Spring 2024

Faculty Search Committee (UT Austin, Computer Science)	Spring 2024
Graduate Student Search Committee (UT Austin, Computer Science)	Spring 2023
Honors Thesis Committee (UT Austin, Computer Science)	Spring, Fall 2023
Honors Thesis Committee (UT Austin, Computer Science)	Spring, Fall 2022
Faculty Search Student Committee (UC Berkeley, Jacobs)	Spring 2018
Graduate Admissions Committee (UC Berkeley, HCI)	Winter 2016/2017
Faculty Search Student Committee (UC Berkeley, EECS)	Spring 2015

Peer Review (* Denotes Special Recognition)

UIST – 2014, 2015, 2016, 2017, 2018, 2019, 2020**, 2021*, 2022*, 2023**, 2024*
 CHI – 2013, 2015, 2016, 2017*, 2018**, 2019, 2020, 2021*, 2022*, 2023****, 2024***
 VIS – 2023
 CSCW – 2018, 2023
 SCIVIS – 2018
 SIGGRAPH Asia – 2017
 MM – 2016

Local and Online Community

Course Creator and Instructor – UTCS, CS Academy for Women	Summer 2025
Course Creator and Instructor – UTCS, CS Academy for Women	Summer 2024
Course Creator and Instructor – UTCS, Academy for ML	Summer 2024
Course Creator and Instructor – UTCS, CS Academy for All	Summer 2024
Panelist: CS Research – UTCS, Graduate Women and Gender Minorities in Computing	2023
Panelist: Getting Into Grad School – UTCS, ACM	2023
Panelist: Women in CS – UTCS, ACM 4 Change	2023
Faculty Mentor – SAGES Mentoring Program at UT Austin	2022
Demo Day Judge – Texas Convergent at UT Austin	2022, 2023
UT HCI Co-Founder and Organizer (Seminar and Mailing List) – UT Austin	Fall 2022-Present
Tech Help Desk – Community Forge (Pittsburgh Small Business Incubator)	2019-2021
Accessibility Seminar Co-Organizer – CMU	2019-2021

TEACHING

CS 378: Introduction to Human-Computer Interaction – Instructor 80 students	Spring 2025
CS 395T: Human-Computer Interaction Research – Instructor 25 students Semester Focus: Accessibility Instructor Rating: 4.65/5.0 Course Rating: 4.46/5.0 Survey Response Ratio: 89.1%	Fall 2024
CS 378: Introduction to Human-Computer Interaction – Instructor 59 students Instructor Rating: 4.54/5.0 Course Rating: 4.33/5.0	Spring 2024

Survey Response Ratio: 96.6%

CS 395T: Human-Computer Interaction Research – Instructor Fall 2023

15 students

Semester Focus: Human-AI Interaction

Instructor Rating: 5.0/5.0

Course Rating: 4.71/5.0

Survey Response Ratio: 93.3%

CS 378: Introduction to Human-Computer Interaction – Instructor Spring 2023

55 students

Instructor Rating: 3.39/5.0

Course Rating: 3.74/5.0

Survey Response Ratio: 69%

CS 378: Introduction to Human-Computer Interaction – Instructor Spring 2022

56 students

Course staff of 1 TA

CS 160: User interface design and development – Instructor Summer 2018

77 students

Course staff of 5 TAs and 2 Readers

Campus award for instruction: Outstanding Graduate Student Instructor

Ratings: hkn.eecs.berkeley.edu/coursesurveys/course/CS/160

CS 160: User interface design and development – Graduate student instructor Summer 2017

CS 160: User interface design and development, taught by Cesar Torres

Served as the only GSI for the course of 60 students.

NWMEDIA 190: Making Sense of Cultural Data – Student project advisor Fall 2017

Served as a “Data Science Pro” for the class by guiding and providing feedback on student projects throughout the semester.

CS Kickstart, intro CS for incoming freshmen women – Instructor Summer 2012

Designed and co-taught CS curriculum to incoming freshmen women interested in pursuing an EECS degree.

Berkeley Engineers and Mentors – Teacher 2009-2010

Co-taught hands-on science and engineering curriculum for 4th and 5th grade students at LeConte Elementary School (Berkeley area)

PHD STUDENT ADVISING

Meng Chen. Fall 2024 - Present
PhD Student, UT Austin.

Ananya Gubbi Mohanbabu. Fall 2024 - Present

PhD Student, UT Austin.

Karim Benharrak.

PhD Student, UT Austin.

Fall 2023 - Present

Mina Huh.

PhD Student, UT Austin.

Fall 2022 - Present

Yi-Hao Peng (informally co-advised with Jeff Bigam at CMU).

PhD Student, CMU.

Fall 2020 - Present

UNDERGRADUATE AND MASTERS STUDENT ADVISING

Sumaya Al-Bedaiwi. “Assessment Support for Speech Language Pathologists (Master’s Thesis).”

5-Year Master’s Student, UT Austin

Fall 2024 - Present

Katie Clark. “2D Images to Tactile Graphics (Master’s Thesis).”

5-Year Master’s Student, UT Austin

Fall 2024 - Present

Sarah Zheng. “Describing Scientific Diagrams (Honors Thesis).”

Undergraduate Student, UT Austin

Fall 2024 - Present

Elin Park. “Audio Production for d/Deaf and Hard of Hearing Creators (Independent Study).”

Undergraduate Student, UT Austin

Fall 2024 - Present

Jerry He. “Optimizing Sensor Position for Aiming (Independent Study).”

Undergraduate Student, UT Austin

Fall 2024

Akhil Iyer. “Automatic Live Descriptions (co-author CHI 2024).”

Undergraduate, UT Austin.

Fall 2023 - Present

Adi Barua. “Creating Short Videos from Long Videos (first author IUI 2024, Honors Thesis).”

Undergraduate, UT Austin.

Fall 2023 - Present

Ananya Gubbi Mohanbabu. “Context-Aware Descriptions (first author ASSETS 2024 paper and Master’s Thesis).”

Master’s Student, UT Austin. Next: PhD at UT Austin

Fall 2023 - Spring 2024

Hansika Murugu. “Evaluating Long Form Answers to Visual Questions (Independent Study).”

Undergraduate at HKUST, Visiting UT Austin. Next: MS at UMD

Fall 2023 - Spring 2024

Ujjaini Das. “Describing Complex Motion (Independent Study).”

Undergraduate, UT Austin.

Fall 2023 - Spring 2024

Tess Van Deale. “Making Short Videos Accessible (first-author CHI 2024 and Honors Thesis)” Undergraduate, UT Austin. Next: Software Engineer at Verkada	Fall 2022 - Spring 2023
Yuning Zhang. “Making Short Videos Accessible (co-author CHI 2024).” Undergraduate, UT Austin. Next: MS at Cornell	Spring 2023
Jalyn Derry. “Making Short Videos Accessible (co-author CHI 2024).” Undergraduate, UT Austin. Next: UX Design at Expedia	Spring 2023
Pranav Venkatesh. “Comparing Web and LLM Search (Independent Study, Co-Advised with Eunsol Choi).” Undergraduate, UT Austin.	Fall 2022 - Fall 2023
Doeun Lee. “Comparing Web and LLM Search (Independent Study, Co-Advised with Eunsol Choi).” Undergraduate, UT Austin. Next: Master’s at OSU	Fall 2022 - Fall 2023
Daniel Killough. “Community-Driven Live Descriptions (first author ASSETS 2023).” Undergraduate, UT Austin. Next: PhD at University of Wisconsin Madison	Summer 2022 - Spring 2023
Yi-Hao Peng. “Making Lectures Non-Visually Accessible” Incoming Graduate, CMU.	Summer 2020
Joon Jang. “Understanding and Improving Presentation Accessibility” Undergraduate, CMU.	Spring/Summer 2020
Xingyu (Bruce) Liu. “Automated Metrics for Predicting Video Accessibility” Undergraduate, CMU. Next: UCLA PhD student.	Spring/Summer 2020
Junhan (Judy) Kong. “Generating AR Tutorials by Demonstration” Undergraduate, CMU. Next: UW PhD student.	Spring 2020
Kimberly Do. “How does expertise impact video description?” Undergraduate, Georgia Tech (REU program).	Summer 2020
Annika Esau. “Can we control dialog generation using scripts?” Undergraduate, University of Idaho (REU program).	Summer 2020
Dena Sabha. “Generating AR Tutorials” Undergraduate, UW (REU program).	Summer 2020
Christina Low. “Making Social Media Images Accessible (co-author CHI 2020)” Undergraduate, Stony Brook University (REU program).	Summer 2019
Emma McCamey. “Making Social Media Images Accessible (co-author CHI 2020)” Undergraduate, Virginia Commonwealth University (REU program).	Summer 2019

- Tonya Nguyen.** “SlideSpecs: Collaborative Presentation Feedback (co-author IUI 2023)”
Undergraduate, UC Berkeley. Next: UC Berkeley PhD student. Fall 2018
- Kaushik Kasi.** “Detecting Slide Transitions for Facilitating Feedback”
Undergraduate, UC Berkeley. Next: Apple. Spring 2018
- Vivian Liu.** “How is food represented on Instagram?”
Undergraduate, UC Berkeley. Next: Columbia PhD student. Fall 2016

DISSERTATION COMMITTEES

- Chongyan Chen** Upcoming
PhD Student at UC Boulder (Advised by Danna Gurari)
- Saelyne Yang** Upcoming
PhD Student at KAIST (Advised by Juho Kim)
- Alex Braylan** 2024
PhD Student at UT Austin (Advised by Matt Lease)
- Jerry Tang** 2024
PhD Student at UT Austin (Advised by Alexander Huth)
- Laura South** 2023
PhD Student at Northeastern (Advised by Michelle Borkin)

INVITED TALKS

- “Panelist (AI for Accessibility).” *UT Austin: AI Live*. Austin, TX. Summer 2024
- “Accessible Creativity.” *Apple Workshop on Human Centered Machine Learning*. Cupertino, CA. Summer 2024
- “Human-AI Interaction (Invited discussant).” *Human-Computer Interaction Consortium (HCIC)*. Delevan, WI. Summer 2024
- “Accessible Creativity with Generative AI.” *UC Irvine Workshop on Accessible Work and Generative AI*. Irvine, CA. Summer 2024
- “Generative AI for Accessible Creativity.” *Adobe HCI Seminar*. San Francisco, CA. Presented virtually. Spring 2024

“The Promise and Peril of using Generative AI for Accessibility.” <i>UT iSchool Colloquium</i> . Austin, TX.	Fall 2023
“Invited Guest.” <i>Fairness in Datasets for Machine Learning in Accessibility Workshop</i> . Virtual Event.	Summer 2023
“Accessible Creativity with Generative AI.” <i>AIST Creative HCI Seminar</i> . Tokyo, Japan. Presented virtually.	Spring 2023
“Panelist (Computer Vision for Media Accessibility; Natural Language Processing for Media Accessibility).” <i>WAI-CooP’s AI and Accessibility Research Symposium</i> . Virtual Event.	Winter 2023
“Human AI Systems for Making Media Accessible.” <i>Marquette CS Colloquium</i> . Virtual Event.	Fall 2022
“The Job Search: Applicant’s View.” <i>EECS Rising Stars</i> . Austin, TX.	Fall 2022
“Human AI Systems for Making Videos Useful.” <i>MIT HCI Seminar</i> . Cambridge, MA. Presented virtually.	Spring 2022
“Video Accessibility.” <i>Stanford HCI Seminar</i> . Stanford, CA. Presented virtually.	Spring 2022
“Human AI Systems for Making Videos Useful.” <i>Carnegie Mellon University HCII</i> . Pittsburgh, PA.	Winter 2021
“XR Access Research Panelist” <i>XR Access Symposium</i> . Virtual Event.	Summer 2021
“Human AI Systems for Making Videos Useful.” <i>Cornell University</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>École Polytechnique Fédérale de Lausanne (EPFL)</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>University of Texas, Austin</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>University of Southern California</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>University of Pennsylvania</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>Johns Hopkins University</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>University of Maryland, College Park</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>Emory University</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>University of Utah</i> . Virtual Event.	Spring 2021
“Human AI Systems for Making Videos Useful.” <i>Adobe Research</i> . Virtual Event.	Spring 2021
“Describing Videos.” <i>CMU HCII Seminar</i> . Pittsburgh, PA.	Summer 2020
“Generating Anti-scam Dialogue.” <i>DARPA PI Meeting</i> . Washington, DC.	Spring 2020

“Text-based Video Navigation.” <i>Apple</i> . Seattle, WA.	Summer 2019
“Text-based Video Navigation.” <i>CMU Course: Human-AI Interaction</i> . Pittsburgh, PA.	Fall 2019
“What is HCI?” <i>UC Berkeley Course: CS 10</i> . Berkeley, CA.	Spring 2019
“What is HCI?” <i>UC Berkeley Course: CS 10</i> . Berkeley, CA.	Fall 2018
“SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries.” <i>LAUC-B conference: “Focus on the Visual: Digital Humanities and Libraries”</i> . Berkeley, CA.	Spring 2016
“SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries.” <i>Pixar</i> . Emeryville, CA.	Fall 2015
“Video Digests: A Browsable, Skimmable Format for Informational Lecture Videos.” <i>BEARS at UC Berkeley</i> . Berkeley, CA.	Fall 2014
“SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries.” <i>UC Berkeley Course: NWMEDIA 190: Making Sense of Cultural Data</i> . Berkeley, CA.	Spring 2014
“Automatically Extracting Command Names from Online Tutorials.” <i>UC Berkeley Visual Computing Lab Retreat</i> . Bodega Bay, CA.	Fall 2011

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“UT computer science lab announces way to make short-form content more accessible” Daniela Capistran, <i>Daily Texan</i> .	May 2024
“Computer Science Professor Looks to Improve Accessible Technologies” Amanda Figueroa-Nieves, <i>UT College of Natural Sciences News</i> .	August 2022
“The red flag meme is a red flag for accessibility” Amanda Sibling, <i>Tech Crunch</i> .	October 2021
“‘I Wish We Could Connect on This Level.’ Memes Still Aren’t Accessible to People Who Are Blind. What’s Being Done About It?” Rachel E. Greenspan, <i>Time</i> .	January 2020
“This app helps you find a particular scene in a movie - genius!” Paul Mallon, <i>Independent.ie</i> .	November 2015
“SceneSkim movie app does exactly what it says it would” Timothy J. Seppala, <i>Engadget</i> .	November 2015
“SceneSkim Lets You Quickly Find a Scene, Dialogue From a Movie or TV Show” Manish Singh, <i>Gadgets 360</i> .	November 2015