Amy Pavel

University of Texas at Austin
Assistant Professor
Department of Computer Science
apavel@cs.utexas.edu
amypavel.com

EDUCATION

UC Berkeley, EECS — **Berkeley, CA**
PhD in Computer Science — Awarded 2019
Advisors: Björn Hartmann (Berkeley), Maneesh Agrawala (Stanford)
Additional Committee Members: Eric Paulos, Abigail De Kosnik

UC Berkeley, College of Engineering — **Berkeley, CA**
BS in Electrical Engineering and Computer Science — Awarded 2013

RESEARCH POSITIONS

University of California, Berkeley, *Assistant Professor* — **Berkeley, CA**
Department of Electrical Engineering and Computer Sciences — 2025-Present

University of Texas at Austin, *Affiliate Assistant Professor* — **Austin, TX**
Department of Computer Science — 2025-Present

Google, *Visiting Faculty Researcher* — **Mountain View, CA**
Google Research. Remote, 20% appointment — 2024-Present

University of Texas at Austin, *Assistant Professor* — **Austin, TX**
Department of Computer Science — 2022-2025

Apple Inc, *Research Scientist (50% time)* — **Cupertino, CA**
AI/ML. Machine Intelligence Accessibility Group — 2019-2022

Carnegie Mellon University, *Postdoctoral Fellow (50% time)* — **Pittsburgh, PA**
HCII. Supervised by Professor Jeffrey P. Bigham — 2019-2021

University of California, Berkeley, *Graduate Researcher* — **Berkeley, CA**
Visual Computing Lab. Advised by Professors Björn Hartmann and Maneesh Agrawala — 2013-2019

Adobe, *Research Intern* — **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 Maneesh 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" *ASSETS 2024* October 2024

Laura South, Caglar Yildirim, **Amy Pavel**, Michelle A. Borkin. "Design Considerations for Photosensitivity Warnings in Visual Media" *ASSETS 2024* — 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" *ECCV 2024* — October 2024

Laura South, Caglar Yildirim, **Amy Pavel**, Michelle A. Borkin. "Barriers to Photosensitive Accessibility in Virtual Reality" *CHI 2024* — **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" *CHI 2024* — May 2024

Stephanie Valencia, Jessica Huynh, Emma Y Jiang, Yufei Wu, Teresa Wan, Zixuan Zheng, Henny Admoni, Jeffrey P. Bigham, **Amy Pavel**. "COMPA: Using Conversation Context to Achieve Common Ground in AAC" *CHI 2024* — May 2024

Haitao Yang, Bo Sun, Liyan Chen, **Amy Pavel**, Qixing Huang. "GeoLatent: A Geometric Approach to Latent Space Design for Deformable Shape Generators" *SIGGRAPH ASIA 2023* — December 2023

Mina Huh, Yi-Hao Peng, **Amy Pavel**. "GenAssist: Making Image Generation Accessible" *UIST 2023* — **Best Paper Award** — October 2023

Daniel Killough, **Amy Pavel**. "Exploring Community-Driven Descriptions for Making Livestreams Accessible" *ASSETS 2023* — 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" *CHI 2023* — April 2023

Jeremy Warner, **Amy Pavel**, Tonya Nguyen, Maneesh Agrawala, Björn Hartmann. "SlideSpecs: Automatic and Interactive Presentation Feedback Collation" *IUI 2023* — April 2023

Yi-Hao Peng, Jason Wu, Jeffrey P. Bigham, **Amy Pavel**. "Diffscriber: Describing Visual Design Changes to Support Mixed-Ability Collaborative Presentation Authoring" *UIST 2022* — October 2022

Xingyu Liu, Ruolin Wang, Dingzeyu Li, Xiang "Anthony" Chen, **Amy Pavel**. "CrossA11y: Identifying Video Accessibility Issues via Cross-modal Grounding" *UIST 2022* — **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" *CHI 2022* — April 2022

Candace Williams, Lilian de Greef, Ed Harris III, **Amy Pavel**, Cynthia L. Bennett. "Toward supporting quality alt text in computing publications" *W4A 2022* — April 2022

Junhan Kong, Dena Sabha, Jeffrey P. Bigham, **Amy Pavel**, Anhong Guo. "TutorialLens: authoring Interactive augmented reality tutorials through narration and demonstration" *SUI 2021* — November 2021

Yi-Hao Peng, Jeffrey P. Bigham, **Amy Pavel**. "Slidecho: Flexible Non-Visual Exploration of Presentation Videos" *ASSETS 2021* — October 2021

Stephanie Valencia, Michal Luria, **Amy Pavel**, Jeffrey P. Bigham, Henny Admoni. "Co-designing Socially Assistive Sidekicks for Motion-based AAC" *HRI 2021* — March 2021

Xingyu Liu, Patrick Carrington, Xiang "Anthony" Chen, **Amy Pavel**. "What Makes a Video Non-Visually Accessible?" *CHI 2021* — May 2021

Yi-Hao Peng, JiWoong Jang, Jeffrey P. Bigham, **Amy Pavel**. "Say It All: Feedback for Improving Non-Visual Presentation Accessibility" *CHI 2021* — May 2021

Prakhar Gupta, Jeffrey P. Bigham, Yulia Tsvetkov, **Amy Pavel**. "Controlling Dialogue Generation with Semantic Exemplars." *NAACL 2021* — June 2021

Amy Pavel, Gabriel Reyes, Jeffrey P. Bigham. "Rescribe: Authoring and Automatically Editing Audio Descriptions." *UIST 2020* (~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." *ASSETS 2020* (28% acceptance rate, 10 pages) — October 2020

Cole Gleason, **Amy Pavel**, Himalini Gururaj, Kris M. Kitani, Jeffrey P. Bigham. "Making GIFs Accessible." *ASSETS 2020* (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." *ASSETS 2020* (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." *CHI 2020* (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." *CHI 2020* (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." *SIGDIAL 2019* (10 pages) — October 2019

Cole Gleason, **Amy Pavel**, Xingyu Liu, Patrick Carrington, Lydia Chilton, Jeffrey P. Bigham. "Making Memes Accessible." *ASSETS 2019* (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 Browsable, 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

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 – *Honorable Mention*	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 — Spring 2025
80 students

CS 395T: Human-Computer Interaction Research – Instructor — Fall 2024
25 students
Semester Focus: Accessibility
Instructor Rating: 4.65/5.0
Course Rating: 4.46/5.0
Survey Response Ratio: 89.1%

CS 378: Introduction to Human-Computer Interaction – Instructor — Spring 2024
59 students
Instructor Rating: 4.54/5.0
Course Rating: 4.33/5.0
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. Fall 2023 - Present
PhD Student, UT Austin.

Mina Huh. Fall 2022 - Present
PhD Student, UT Austin.

Yi-Hao Peng (informally co-advised with Jeff Bigham at CMU). Fall 2020 - Present
PhD Student, CMU.

UNDERGRADUATE AND MASTERS STUDENT ADVISING

Sumaya Al-Bedaiwi. "Assessment Support for Speech Languge Pathologists (Master's Thesis)." — Fall 2024 - Present
5-Year Master's Student, UT Austin

Katie Clark. "2D Images to Tactile Graphics (Master's Thesis)." — Fall 2024 - Present
5-Year Master's Student, UT Austin

Sarah Zheng. "Describing Scientific Diagrams (Honors Thesis)." — Fall 2024 - Present
Undergraduate Student, UT Austin

Elin Park. "Audio Production for d/Deaf and Hard of Hearing Creators (Independent Study)." — Fall 2024 - Present
Undergraduate Student, UT Austin

Jerry He. "Optimizing Sensor Position for Aiming (Independent Study)." — Fall 2024
Undergraduate Student, UT Austin

Akhil Iyer. "Automatic Live Descriptions (co-author CHI 2024)." — Fall 2023 - Present
Undergradaute, UT Austin.

Adi Barua. "Creating Short Videos from Long Videos (first author IUI 2024, Honors Thesis)." — Fall 2023 - Present
Undergradaute, UT Austin.

Ananya Gubbi Mohanbabu. "Context-Aware Descriptions (first author ASSETS 2024 paper and Master's Thesis)." — Fall 2023 - Spring 2024
Master's Student, UT Austin. Next: PhD at UT Austin

Hansika Murugu. "Evaluating Long Form Answers to Visual Questions (Independent Study)." — Fall 2023 - Spring 2024
Undergradaute at HKUST, Visiting UT Austin. Next: MS at UMD

Ujjaini Das. "Describing Complex Motion (Independent Study)." — Fall 2023 - Spring 2024
Undergradaute, UT Austin.

Tess Van Deaele. "Making Short Videos Accessible (first-author CHI 2024 and Honors Thesis)" — Fall 2022 - Spring 2023
Undergradaute, UT Austin. Next: Software Engineer at Verkada

Yuning Zhang. "Making Short Videos Accessible (co-author CHI 2024)." — Spring 2023
Undergradaute, UT Austin. Next: MS at Cornell

Jalyn Derry. "Making Short Videos Accessible (co-author CHI 2024)." — Spring 2023
Undergradaute, UT Austin. Next: UX Design at Expedia

Pranav Venkatesh. "Comparing Web and LLM Search (Independent Study, Co-Advised with Eunsol Choi)." — Fall 2022 - Fall 2023
Undergradaute, UT Austin.

Doeun Lee. "Comparing Web and LLM Search (Independent Study, Co-Advised with Eunsol Choi)." — Fall 2022 - Fall 2023

Undergradaute, UT Austin. Next: Master's at OSU

Daniel Killough. "Community-Driven Live Descriptions (first author ASSETS 2023)." Summer 2022 - Spring 2023
Undergradaute, UT Austin. Next: PhD at University of Wisconsin Madison

Yi-Hao Peng. "Making Lectures Non-Visually Accessible" Summer 2020
Incoming Graduate, CMU.

Joon Jang. "Understanding and Improving Presentation Accessibility" Spring/Summer 2020
Undergraduate, CMU.

Xingyu (Bruce) Liu. "Automated Metrics for Predicting Video Accessibility" Spring/Summer 2020
Undergraduate, CMU. Next: UCLA PhD student.

Junhan (Judy) Kong. "Generating AR Tutorials by Demonstration" Spring 2020
Undergraduate, CMU. Next: UW PhD student.

Kimberly Do. "How does expertise impact video description?" Summer 2020
Undergraduate, Georgia Tech (REU program).

Annika Esau. "Can we control dialog generation using scripts?" Summer 2020
Undergraduate, University of Idaho (REU program).

Dena Sabha. "Generating AR Tutorials" Summer 2020
Undergraduate, UW (REU program).

Christina Low. "Making Social Media Images Accessible (co-author CHI 2020)" Summer 2019
Undergraduate, Stony Brook University (REU program).

Emma McCamey. "Making Social Media Images Accessible (co-author CHI 2020)" Summer 2019
Undergraduate, Virginia Commonwealth University (REU program).

Tonya Nguyen. "SlideSpecs: Collaborative Presentation Feedback (co-author IUI 2023)" Fall 2018
Undergraduate, UC Berkeley. Next: UC Berkeley PhD student.

Kaushik Kasi. "Detecting Slide Transitions for Facilitating Feedback" Spring 2018
Undergraduate, UC Berkeley. Next: Apple.

Vivian Liu. "How is food represented on Instagram?" Fall 2016
Undergraduate, UC Berkeley. Next: Columbia PhD student.

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 Accessiblity)." *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." *UT iSchool Colloquium*. Austin, TX. Fall 2023

"Invited Guest." *Fairness in Datasets for Machine Learning in Accessibility Workshop*. Virtual Event. Summer 2023

"Accessible Creativity with Generative AI." *AIST Creative HCI Seminar*. Tokyo, Japan. Presented virtually. Spring 2023

"Panelist (Computer Vision for Media Accessibility; Natural Language Processing for Media Accessibility)." *WAI-CooP's AI and Accessibility Research Symposium*. Virtual Event. Winter 2023

"Human AI Systems for Making Media Accessible." *Marquette CS Colloquium*. Virtual Event. Fall 2022

"The Job Search: Applicant's View." *EECS Rising Stars*. Austin, TX. Fall 2022

"Human AI Systems for Making Videos Useful." *MIT HCI Seminar*. Cambridge, MA. Presented virtually. Spring 2022

"Video Accessibility." *Stanford HCI Seminar*. Stanford, CA. Presented virtually. Spring 2022

"Human AI Systems for Making Videos Useful." *Carnegie Mellon University HCII*. Pittsburgh, PA.	Winter 2021
"XR Access Research Panelist" *XR Access Symposium*. Virtual Event.	Summer 2021
"Human AI Systems for Making Videos Useful." *Cornell University*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *École Polytechnique Fédérale de Lausanne (EPFL)*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *University of Texas, Austin*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *University of Southern California*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *University of Pennsylvania*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *Johns Hopkins University*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *University of Maryland, College Park*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *Emory University*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *University of Utah*. Virtual Event.	Spring 2021
"Human AI Systems for Making Videos Useful." *Adobe Research*. Virtual Event.	Spring 2021
"Describing Videos." *CMU HCII Seminar*. Pittsburgh, PA.	Summer 2020
"Generating Anti-scam Dialogue." *DARPA PI Meeting*. Washington, DC.	Spring 2020
"Text-based Video Navigation." *Apple*. Seattle, WA.	Summer 2019
"Text-based Video Navigation." *CMU Course: Human-AI Interaction*. Pittsburgh, PA.	Fall 2019
"What is HCI?" *UC Berkeley Course: CS 10*. Berkeley, CA.	Spring 2019
"What is HCI?" *UC Berkeley Course: CS 10*. Berkeley, CA.	Fall 2018
"SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries." *LAUC-B conference: "Focus on the Visual: Digital Humanities and Libraries"*. Berkeley, CA.	Spring 2016
"SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries." *Pixar*. Emeryville, CA.	Fall 2015
"Video Digests: A Browsable, Skimmable Format for Informational Lecture Videos." *BEARS at UC Berkeley*. Berkeley, CA.	Fall 2014

"SceneSkim: Searching and Browsing Movies Using Synchronized Captions, Scripts and Plot Summaries." *UC Berkeley Course: NWMEDIA 190: Making Sense of Cultural Data*. Berkeley, CA. Spring 2014

"Automatically Extracting Command Names from Online Tutorials." *UC Berkeley Visual Computing Lab Retreat*. Bodega Bay, CA. Fall 2011

SELECTED PRESS

"UT computer science lab announces way to make short-form content more accessible" Daniela Capistran, *Daily Texan*. May 2024

"Computer Science Professor Looks to Improve Accessible Technologies" Amanda Figueroa-Nieves, *UT College of Natural Sciences News*. August 2022

"The red flag meme is a red flag for accessibility" Amanda Siblering, *Tech Crunch*. 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, *Time*. January 2020

"This app helps you find a particular scene in a movie - genius!" Paul Mallon, *Independent.ie*. November 2015

"SceneSkim movie app does exactly what it says it would" Timothy J. Seppala, *Engadget*. November 2015

"SceneSkim Lets You Quickly Find a Scene, Dialogue From a Movie or TV Show" Manish Singh, *Gadgets 360*. November 2015