SHIRI AZENKOT

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Information Science, Jacobs Technion-Cornell Institute
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RESEARCH INTERESTS

As artificial intelligence (AI) advances, it holds the promise (and threat) of changing the way we live our daily lives. My goal is to leverage these advances towards social good, specifically to empower people with disabilities, who are marginalized by our current social and physical infrastructure. I design AI-enabled systems that enable people with disabilities to access information effectively. Specifically, I study challenges faced by people with visual impairments (both blind and low vision), and develop technology to help them overcome access barriers in daily mobility, education, and employment.

My research is in the intersection of human-computer interaction and accessibility; I contribute empirical findings that increase our understanding of people, their behaviors, and experiences, and novel artifacts that help us imagine new futures and realize new outcomes.

EDUCATION

Ph.D. in Computer Science, University of Washington (2009 – 2014).
Dissertation topic: Eyes-free Input on Mobile Devices
Advisors: Prof. Richard Ladner and Prof. Jacob O. Wobbrock

M.S. in Computer Science, University of Washington (2009 – 2011).
Qualifying Exam: Enhancing Independence and Safety for Blind and Deaf-Blind Public Transit Riders
Committee: Prof. Richard Ladner and Prof. Alan Borning

B.A. in Computer Science, Pomona College (2002 – 2005).
Graduated with Distinction on senior thesis
Senior Thesis: Genetic Algorithms for Genetic Sequence Alignment
Advisors: Prof. Tzu-Yi Chen and Prof. Andre Cavalcanti

ACADEMIC POSITIONS

- **Associate Professor**, Jacobs Technion-Cornell Institute, Cornell Tech, Cornell University (2020 – Present)
- **Field Member**, Computer Science, Cornell University (2020 – Present)
- **Assistant Professor**, Jacobs Technion-Cornell Institute, Cornell Tech, Cornell University (2014 – 2020).
- **Field Member**, Information Science, Cornell University (2014 – Present)
- **Affiliate Faculty**, Computer Science, Technion—Israel Institute of Technology (2014 – Present)

PEER-REVIEWED PUBLICATIONS

Note: In the field of human-computer interaction, the most prestigious publication venues are rigorously peer-reviewed academic conference proceedings rather than journals. "The ACM SIGCHI Conference on Human Factors in Computing (CHI)" is considered to be the top conference in the broader field of human-computer interaction, and "The ACM SIGACCESS Conference on Computer and Accessibility (ASSETS)" is considered to be the top conference in the field of accessibility.

*A * following an author's name indicates the author is a student or postdoc advisee.*

Journal Papers

1. **Shiri Azenkot**, Margot J. Hanley* and Catherine M. Baker. 2021. How Accessibility Practitioners Promote the Creation of Accessible Products in Large Companies. In *Proceedings of the ACM on Human-Computer Interaction,* Vol. 5, CSCW 1, Article 148 (April 2021), 28 pages,

2. Yuhang Zhao*, Sarit Szpiro*, Lei Shi*, and **Shiri Azenkot**. “Designing and Evaluating a Customizable Head-Mounted Vision Enhancement System for People with Low Vision.” ACM Trans. on Access. Comput. (TACCESS), 12, 4, Article 15 (January 2020), 46 pages.

3. Yuhang Zhao*, Shaomei Wu, Lindsay Reynolds, and **Shiri Azenkot**. The Effect of Computer-Generated Descriptions on Photo-Sharing Experiences of People with Visual Impairments. Proc. ACM Hum.-Comput. Interact. 1, CSCW. 121. (November 2017). 22 pages.

4. Kotaro Hara, **Shiri Azenkot,** Megan Campbell, Cynthia L. Bennett, Vicki Le, Sean Pannella, Robert Moore, Kelly Minckler, Rochelle Ng, and Jon Froehlich. 2014. Improving Public Transit Accessibility for Blind Riders by Crowdsourcing Bus Stop Landmark Locations with Google Street View: An Extended Analysis. ACM Transactions on Accessible Computing. 6, 2, Article 5 (March 2015), 23 pages.

Full-Length Conference Papers

1. Zikai Alex Wen*, Erica Silverstein, Yuhang Zhao*, Anjelika Lynne Amog*, Katherine Garnett, and **Shiri Azenkot**. 2020. Teacher Views of Math E-learning Tools for Students with Specific Learning Disabilities. In The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20). ACM, New York, NY, USA, Article 44, 1–13.

2. Yuhang Zhao*, Elizabeth Kupferstein, Hathaitorn Rojnirun*, Leah Findlater, and **Shiri Azenkot**. 2020. The Effectiveness of Visual and Audio Wayfinding Guidance on Smartglasses for People with Low Vision. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20). ACM, New York, NY, USA, 1–14.

3. Lei Shi*, Yuhang Zhao*, Ricardo Gonzalez Penuela*, Elizabeth Kupferstein, and **Shiri Azenkot**. 2020. Molder: An Accessible Design Tool for Tactile Maps. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20). ACM, New York, NY, USA, 1–14.

4. Yuhang Zhao*, Elizabeth Kupferstein, Brenda Castro*, Steven Feiner, and **Shiri Azenkot**. 2019. Designing AR Visualizations to Facilitate Stair Navigation for People with Low Vision. In Proceedings of the 32nd Annual Symposium on User Interface Software and Technology (UIST ’19). ACM, New York, NY, USA, 387-402.

5. Lei Shi*, Zhuohao Zhang*, Holly Lawson, and **Shiri Azenkot**. 2019. Designing Interactive 3D-Printed Models with Teachers of the Visually Impaired. The SIGCHI Conference on Human Factors in Computing Systems (CHI ‘19). ACM, New York, NY, USA, Paper 197, 14 pages.

6. Yuhang Zhao*, Elizabeth Kupferstein, Doron Tal, and **Shiri Azenkot**. 2018. “It Looks Beautiful but Scary:” How Low Vision People Navigate Stairs and Other Surface Level Changes. In Proceedings of the 20th International ACM SIGACCESS Conference on Computers & Accessibility (ASSETS ’18). ACM, New York, NY, USA, 307-320. ***Best Paper Nominee”***

7. Lei Shi*, Maryam Ashoori, Yunfeng Zhang*, and **Shiri Azenkot**. 2018. Knock Knock, What’s There: Converting Passive Objects into Customizable Smart Controllers. In Proceedings of the 20th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '18). ACM, New York, NY, USA, Article 31, 13 pages.

8. Yuhang Zhao*, Shaomei Wu, Lindsay Reynolds, and **Shiri Azenkot**. 2018. A Face Recognition Application for People with Visual Impairments: Understanding Use Beyond the Lab. The SIGCHI Conference on Human Factors in Computing Systems (CHI) 2018. ACM, New York, NY, USA, 2015–2024.

9. Lei Shi*, Yuhang Zhao*, and **Shiri Azenko**t. 2017. Designing Interactions for 3D Printed Models with Blind People. In Proceedings of the 19th International ACM SIGACCESS Conference on Computers & Accessibility (ASSETS ’17). ACM, New York, NY, USA, 200-209.

10. Lei Shi*, Yuhang Zhao*, and **Shiri Azenkot.** 2017. Markit and Talkit: A Low-Barrier Toolkit to Augment 3D Printed Models with Audio Annotations. In Proceedings of the 30th Annual Symposium on User Interface Software and Technology (UIST ’17). ACM, New York, NY, USA, 493-506.

11. Danielle Bragg, **Shiri Azenkot**, Kevin Larson, Anne Bessemans, and Adam Kalai. 2017. Designing and Evaluating Livefonts. *In Proceedings of the 30th Annual Symposium on User Interface Software and Technology (UIST '17).* ACM, New York, NY, USA, 481-492.

12. Yuhang Zhao*, Shafeka Hashash, Michele Hu, and **Shiri Azenkot.** 2017. Understanding Low Vision People's Visual Perception on Commercial Augmented Reality Glasses. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). ACM, New York, NY, USA, 4170-4181.

13. Sarit Szpiro*, Shafeka Hashash*, Yuhang Zhao*, and **Shiri Azenkot**. 2016. How People with Low Vision Access Computing Devices: Understanding Challenges and Opportunities. The 18th international ACM SIGACCESS conference on Computers and accessibility (ASSETS '16). ACM, New York, NY, USA, 171-180. ***Best Paper Finalist***

14. Danielle Bragg, **Shiri Azenkot**, and Adam Kalai. 2016. Reading and Learning Smartfonts. In Proceedings of the 29th Annual ACM Symposium on User Interface Software & Technology (UIST '16). ACM, New York, NY, USA, 391-402.

15. Sarit Szpiro*, Yuhang Zhao*, and **Shiri Azenkot.** 2016. Finding a Store, Searching for a Product: A Study of Daily Challenges of Low Vision People. In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '16). ACM, New York, NY, USA, 61-72.

16. Yuhang Zhao*, Sarit Szpiro*, Jonathan Knighten*, and **Shiri Azenkot.** 2016. CueSee: Exploring Visual Cues for People with Low Vision to Facilitate a Visual Search Task. In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '16). ACM, New York, NY, USA, 73-84.

17. Lei Shi*, Idan Zelzer*, Catherine Feng*, and **Shiri Azenkot.** 2016. Tickers and Talker: An Accessible Labeling Toolkit for 3D-Printed Models. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI'16). ACM, New York, NY, USA, 4896-4907.

18. **Shiri Azenkot**, Catherine Feng, and Maya Cakmak. 2016. Enabling Building Service Robots to Guide Blind People: A Participatory Design Approach. In Proceedings of the 11th Annual ACM/IEEE International Conference on Human-Robot Interaction 2016 (HRI '16). IEEE Press, Piscataway, NJ, USA, 3-10. ***Best Paper Nominee***

19. Violeta Voykinska, **Shiri Azenkot**, Shaomei Wu, and Gilly Leshed. 2016. How Blind People Interact with Visual Content on Social Networking Services. *Proceedings of the 2016 conference on Computer supported cooperative work* (CSCW '16). ACM, New York, NY, USA, 1584-1595.

20. Yuhang Zhao*, Sarit Szpiro*, and **Shiri Azenkot**. 2015. ForeSee: A Customizable Head-Mounted Vision Enhancement System for People with Low Vision. The 17th international ACM SIGACCESS conference on Computers and accessibility (ASSETS '15). ACM, New York, NY, USA, 239-249.

21. Lauren R. Milne, Cynthia L. Bennett, **Shiri Azenkot,** and Richard E. Ladner. 2014. BraillePlay: Educational Smartphone Games for Blind Children. In Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '14). ACM, New York, NY, USA, Article 11, 8 pages.

22. **Shiri Azenkot**, and Nicole B. Lee. 2013. Exploring the Use of Speech Input by Blind People on Mobile Devices. In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '13). ACM, New York, NY, USA, Article 11, 8 pages.

23. Kotaro Hara, **Shiri Azenkot,** Megan Campbell, Cynthia L. Bennett, Vicki Le, Sean Pannella, Robert Moore, Kelly Minckler, Rochelle Ng, and Jon Froehlich. 2013. Improving Public Transit Accessibility for Blind Riders by Crowdsourcing Bus Stop Landmark Locations with Google Street View. In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '13). ACM, New York, NY, USA, Article 16, 8 pages. ***Best Paper***

24. **Shiri Azenkot,** Cynthia L. Bennett, and Richard E. Ladner. 2013. DigiTaps: Eyes-free Number Entry with Minimal Audio Feedback on Touchscreens. In *Proceedings of the ACM Symposium on User Interface Software and Technology* (UIST '13). ACM, New York, NY, USA, 85-90.

25. Xiaojun Bi, **Shiri Azenkot**, Kurt Partridge, and Shumin Zhai. 2013. Octopus: Evaluating Touchscreen Keyboard Correction and Recognition Algorithms via "Remulation." In *Proceedings of the ACM Conference on human factors in computing systems* (CHI '13). ACM, New York, NY, USA, 543-552.

26. **Shiri Azenkot**, Kyle Rector, Richard E. Ladner, and Jacob O. Wobbrock. 2014. PassChords: Secure Multi-Touch Authentication for Blind People. In Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '12). ACM, New York, NY, USA, 159-166. ***Best Paper***
27. **Shiri Azenkot** and Shumin Zhai. 2012. Touch Behavior with Different Postures on Soft Smart Phone Keyboards. In Proceedings of MobileHCI (MobileHCI '12). ACM, New York, NY, USA, 251-260.
28. **Shiri Azenkot**, Jacob O. Wobbrock, Sanjana Prasain, and Richard E. Ladner. 2012. Input Finger Detection for nonvisual touch screen text entry in *Perkinput*. In *Proceedings of Graphics Interface* (GI '12). Toronto, Ontario (May 28-30, 2012). Toronto, Ontario: Canadian Information Processing Society, 121-129.
29. **Shiri Azenkot**, Sanjana Prasain, Alan Borning, Emily Fortuna, Richard E. Ladner, and Jacob O. Wobbrock. 2011. Enhancing independence and safety for blind and deaf-blind public transit riders. In *Proceedings of the 2011 annual conference on human factors in computing systems* (CHI '11). ACM, New York, NY, USA, 3247-3256.
30. **Shiri Azenkot**, Theodore Golfinopolous, Adam Marcus, Alessondra Springmann, and Jonathan Varsanik. 2011. Overcoming Barriers between Israeli and Palestinian Students via Computer Science. In *Proceedings of the 42nd SIGCSE technical symposium on computer science education* (SIGCSE '11). ACM, New York, NY, USA, 667-672.
31. Lydia B. Chilton, John J. Horton, Robert C. Miller, and **Shiri Azenkot**. 2010. Task search in a human computation market. In *Proceedings of the ACM SIGKDD Workshop on Human Computation* (HCOMP '10). ACM, New York, NY, USA, 1-9.

Extended Abstracts (with Posters)

1. Zikai Alex Wen*, Anjelika L. Amog*, Katherine Garnett, and **Shiri Azenkot**. 2019. Teacher Perspectives on E-Learning Math Tools for Students with Specific Learning Disabilities. In Proceedings of The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19). ACM, New York, NY, USA, 516-518.
2. Lei Shi*, Yuhang Zhao*, Elizabeth Kupferstein, and **Shiri Azenkot**. 2019. A Demonstration of Molder: An Accessible Design Tool for Tactile Maps. In Proceedings of The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19).ACM, New York, NY, USA, 664-666.
3. Natalie Friedman, Andrea Cuadra, Ruchi Patel, Joel Stein, **Shiri Azenkot**, and Wendy Ju. 2019. Voice Assistant Strategies and Opportunities for People with Tetraplegia. In Proceedings of The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19). New York, NY, USA, 575-577.
4. Lei Shi*, Zhuohao Zhang*, and **Shiri Azenkot**. 2018. A Demo of Talkit++: Interacting with 3D Printed Models Using iOS Devices. In Proceedings of The 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18). ACM, New York, NY, USA, 429-431.
5. Lei Shi*, Ross McLachlan, Yuhang Zhao*, **Shiri Azenkot**. 2016. Magic Touch: Interacting with 3D Printed Graphics, In Proceedings of The 18th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '16). ACM, New York, NY, USA, 329-330.
6. Catherine Feng*, **Shiri Azenkot**, and Maya Cakmak. 2015. Designing a Robot Guide for Blind People in Indoor Environments. In *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction Extended Abstracts* (HRI '15 EA). ACM New York, NY, USA, 107-108.
7. Jaime Teevan, Meredith R. Morris, and **Shiri Azenkot**. 2014. Using Physical Signaling to Support Collaborative Mobile Search. *In Proceedings of the ACM Conference on Computer supported cooperative work & social computing (CSCW Companion '14).* ACM, New York, NY, USA, 245-248.
8. Vaspol Ruamviboonsuk, **Shiri Azenkot**, and Richard E. Ladner (2012). Tapulator: a Non-Visual Calculator using Prefix-Free Codes. In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '12). ACM, New York, NY, USA, 221-222.
9. **Shiri Azenkot**, Richard E. Ladner, and Jacob O. Wobbrock 2011. Smartphone haptic feedback for nonvisual wayfinding. In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '11). ACM, New York, NY, USA, 281-282.

10. **Shiri Azenkot** and Emily Fortuna. 2010. Improving public transit usability for blind and deaf-blind people by connecting a braille display to a smartphone. In *Proceedings of the 12th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '10). ACM, New York, NY, USA, 317-318. ***1st Place, Student Research Competition***

11. Amanda J. Stent, **Shiri Azenkot**, and Benjamin Stern. 2010. Iwalk: a lightweight navigation system for low-vision users. In *Proceedings of the 12th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '10). ACM, New York, NY, USA, 269-270.

Workshop Papers

1. Leah Findlater, Steven Goodman, Yuhang Zhao*, **Shiri Azenkot**, and Margot Hanley*. 2019. Fairness Issues in AI Systems that Augment Sensory Abilities. Workshop on AI Fairness for People with Disabilities. Workshop at the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, PA. October 2019.

2. Margot Hanley* and **Shiri Azenkot**. 2019. Understanding the Use of Voice Assistants by Older Adults. 2018. Workshop on Accessible Voice Interactions at The 21st ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2018). Jersey City, New Jersey, November, 2018.

3. **Shiri Azenkot**, Kyle Rector, Richard E. Ladner, and Jacob O. Wobbrock. 2013. The Need for More Research on Mobile Technologies for People with Low-Vision. Workshop on "Mobile Accessibility." *ACM Conference on Human Factors in Computing Systems* (CHI '13). Paris, France. April, 2013.

4. Shumin Zhai, Xiaojun Bi, **Shiri Azenkot**, Kurt Partridge. 2013. The Grand Challenge of Automated Evaluation of Text Input Systems. In Workshop on Grand Challenges in Text Entry. *ACM Conference on Human Factors in Computing Systems* (CHI '13). Paris, France. April 2013.

Other Publications

1. **Shiri Azenkot** and Yuhang Zhao*. 2017. Designing Smartglasses Applications for People with Low Vision. SIGACCESS Accessible Computing 119 (November 2017).

2. Jaime Teevan, Meredith Ringel Morris, and **Shiri Azenkot.** 2014. *Supporting Interpersonal Interaction during Collaborative Mobile Search*. IEEE Computer special issue on Collaborative Information Seeking (March 2014).

WORKSHOPS AND CONFERENCES ORGANIZED

*A * following an organizer's name indicates the author is a student or postdoc who I have advised.*

1. **Shiri Azenkot** and Larry Goldberg. The Second Annual XR Access Symposium. A conference organized by Cornell Tech and Verizon Media, 2020.

2. **Shiri Azenkot** and Larry Goldberg. The XR Access Symposium. A conference organized at Cornell Tech in collaboration with Verizon Media. New York, NY, 2019.

3. Yuhang Zhao*, Leah Findlater, Merrie Ringel Morris, Martez Mott, Steven Feiner, Holger Regenbrecht, and **Shiri Azenkot**. 2019. Mixed Reality and Accessibility. Workshop at the IEEE International Symposium on Augmented and Mixed Reality (ISMAR '19). Beijing, China. October, 2019.

4. Shari Trewin, Meredith Ringel Morris, **Shiri Azenkot**, Stacy Branham, Nicole, Bleuel, Phill, Jenkins, Jeffrey Bigham, and Walter S. Lasecki. AI Fairness for People with Disabilities. Workshop at the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, PA. October 2019.

5. Keith Vertanen, Mark Dunlop, Xiaojun Bi, Kyle Montague, Ahmed Sabbir Arif, and **Shiri Azenkot**. 2017. Ubiquitous Text Interaction. Workshop at The 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). Denver, CO. May, 2019.

AWARDS AND HONORS

- Best Paper Nominee, ACM ASSETS 2018.
- Best Paper Finalist, ACM ASSETS 2016.
- Best Paper Nominee, ACM/IEEE HRI 2016.

- University of Washington Graduate Medal (2014) – Recognizes Ph.D. candidates whose academic expertise and social awareness are integrated in a way that demonstrates an exemplary commitment to the University and its larger community
- University of Washington College of Engineering Student Innovator Award
- MIT's Rising Stars in EECS (2013) – Academic workshop for women
- Best Paper, ACM ASSETS 2013
- Best Paper, ACM ASSETS 2012
- Google Travel Award, CHI 2012
- 1st Place, Student Research Competition, ASSETS 2010
- NSF Graduate Research Fellowship (2009) – funding for 3 years of doctoral research
- AT&T Labs Research Fellowship (2009) – funding for 3 years of doctoral research
- NASA Harriett Jenkins Pre-Doctoral Fellowship (2009) (declined)
- Google Lime Scholarship for students with disabilities (2010) – $10,000 funding.
- Google Anita Borg Scholarship for women in computing (2005) – $10,000 funding.

KEYNOTE AND PLENARY TALKS

1. **Shiri Azenkot**. Interactive 3D-Printed Models for Students with Visual Impairments. Plenary talk at The Printing for Fabrication Conference, Society for Imaging Science and Technology. San Francisco, CA. September, 2019.
2. **Shiri Azenkot**. AI-Powered Access: Intelligent Interactive Systems to Support People with Visual Impairments. Keynote at Montreal AI. Montreal, QC, Canada. September, 2019.
3. **Shiri Azenkot**. Changing the Way We See Things: Designing Technology for People with Low Vision Keynote at the OurCS@UW+AccessComputing Workshop for Women with Disabilities in Computing. Seattle, WA. April, 2019.
4. **Shiri Azenkot**. Changing the Way We See Things: Designing Technology for People with Low Vision. Keynote at the ACM Richard Tapia Celebration of Diversity in Computing. September, 2018.
5. **Shiri Azenkot**. "Enhancing Ability: A Research Lab Overview. Keynote at the Association of Education and Rehabilitation of the Blind and Visually Impaired of New York State (AERBVI NYS) annual conference, Albany, NY. October, 2017.
6. **Shiri Azenkot.** Enhancing Human Abilities: A Lab Overview. Keynote at the 4th Annual IsraHCI Conference. Israel. February, 2016.

INVITED TALKS AND PANELS

1. Susan Mazrui, **Shiri Azenkot**, Bill Curtis-Davidson, Matthew Dickman, and Larry Goldberg. Extended Reality. Panel at The M-Enabling Summit. Washington, D.C. June, 2019.
2. **Shiri Azenkot**. Augmenting Reality for People with Low Vision. Talk at the Mechanical Engineering Department, Stanford University. Stanford, CA. May, 2019.
3. **Shiri Azenkot**. Augmenting Reality for People with Low Vision. Talk at the Optometry School., State University of New York. New York, NY. June, 2019.
4. **Shiri Azenkot**. Augmenting Reality for People with Low Vision. Talk at Apple Inc, Seattle, WA. March, 2019.
5. Megan Lawrence**, Shiri Azenkot**, Jeffrey Bigham, Matthew Huenerfauth, and Meredith R. Morris. Panel at the CSUN Assistive Technology Conference. Anaheim, CA. March, 2019.
6. **Shiri Azenkot**. Sensables: 3D-Printed Models for Students with Visual Impairments. Talk at the AccessCyberLearning 2.0 Capacity Building Institute. Seattle, WA. January, 2019.
7. Holly Lawson, **Shiri Azenkot**, Lei Shi, and Michael Cantino. Interactive 3D-Printed Tactile Campus Maps. Accessing Higher Ground, Denver, CO, November 2018.
8. Shari Trewin, **Shiri Azenkot**, Matthew King, and Meredith R. Morris. Will Artificial Intelligence Eliminate Accessibility Barriers? Panel at The Grace Hopper Celebration of Women in Computing. Houston, TX. September, 2018.

9. **Shiri Azenkot**. *Supporting People with Low Vision in Daily Activities*. Talk at the Human-Computer Interaction Institute Seminar, Carnegie Mellon University. Pittsburgh, PA. November, 2017.
10. Richard Ladner, **Shiri Azenkot**, Shaun Kane. "Accessibility Research: Change Individuals and Change the World." Panel at the ACM Richard Tapia Celebration of Diversity in Computing. Atlanta, GA. October, 2017.
11. **Shiri Azenkot**. *Supporting People with Low Vision in Daily Activities*. Talk at the Computer Science & Engineering Department Colloquium, University of Washington. Seattle, WA. December, 2016.
12. **Shiri Azenkot**. Supporting People with Low Vision in Daily Activities. Talk at Microsoft Research, Redmond, WA. December, 2016.
13. **Shiri Azenkot.** "The Accessibility Lecture:" Should We Teach Accessibility as a Standalone Topic or Integrate it Throughout the Course? AccessComputing Capacity Building Institute. Seattle, WA. December, 2016.
14. **Shiri Azenkot**, Anat Caspi, Kat Steele, Yvette Pearson Weatherton. Disability, *Diversity, & Engineering: Strategies to Support & Encourage Individuals with Disabilities in Engineering*. Panel at Society of Women Engineers Annual Conference. Philadelphia, PA. October, 2016.
15. **Shiri Azenkot**. Addressing an ignored User Group: People with Low Vision. Invited talk at the DUB Seminar, the University of Washington. Seattle, WA. July, 2016.
16. **Shiri Azenkot**. Addressing an ignored User Group: People with Low Vision. Talk at Facebook Inc., Menlo Park, CA. May, 2016.
17. **Shiri Azenkot**. Designing Accessible Nonvisual Interaction for Mobile Devices. Talk at the Stern School of Business, New York University. April, 2016.
18. **Shiri Azenkot.** "Designing Technology for Blind People." Talk at the School of Optometry, State University of New York. April, 2015.
19. **Shiri Azenkot.** "Designing Technology for Blind People." Technion—Israel Institute of Technology, Israel, December, 2014.
20. **Shiri Azenkot.** "Eyes-Free Text Entry on Mobile Devices." Oregon Health & Science University. Portland, OR. December, 2013.
21. **Shiri Azenkot**. "DigiTaps: Eyes-free Number Entry on Touchscreens with Minimal Audio Feedback." Presentation at MIT's Rising Stars in EECS Workshop. Cambridge, MA. November, 2013.
22. **Shiri Azenkot**, "Perkinput: Eyes-free Text Entry on Mobile Devices." PhD Forum Presentation at Grace Hopper Celebration of Women in Computing. Minneapolis, MN. October, 2013.
23. **Shiri Azenkot**. "Nonvisual Text Entry on Mobile Devices with Perkinput and Beyond." Presentation at Columbia University. New York, NY, May, 2013.
24. **Shiri Azenkot.** "PassChords: Secure Multi-Touch Authentication for Blind People." Presentation at the University of Maryland, College Park. College Park, MD, September, 2012.
25. Jakita O. Thomas, **Shiri Azenkot,** Sandra Begay-Campbell, Monica Martinez-Canales, and Rosario Robinson. "Coping and Mentoring Mechanisms for Women from Underrepresented Groups." Panel at the Grace Hopper Conference of Women in Computing. Baltimore, MD. September, 2012.
26. **Shiri Azenkot**. "Perkinput: Nonvisual Text Entry for Mobile Touch Screen Devices." Talk at Association for Education and Rehabilitation of the Blind and Visually Impaired (AER) International Conference. Bellevue, WA. July, 2012.
27. Wendy David, Mike May, **Shiri Azenkot**, and Megan Lawrence. "New Directions in Accessible Travel: What's On the Horizon?" Panel at the Association for Education and Rehabilitation of the Blind and Visually Impaired (AER) International Conference. Bellevue, WA. July, 2012.
28. **Shiri Azenkot.** "Perkinput: Nonvisual Text Entry on Mobile Touch Screen Devices." Presentation at the University of Toronto. Toronto, ON. May, 2012.

29. Amanda Stent, Jay Wilpon, **Shiri Azenkot**, Avalyn Jackson, and Terri Hartman Squire. “Biometrics, Authentication, and Assistive Tech.” Panel at CSUN Annual Technology and Persons with Disabilities Conference. San Diego, CA. March, 2012.

TEACHING EXPERIENCE

INFO6410: Human Computer Interaction and Design, Cornell Tech
Instructor, Spring 2015, Fall 2018, Fall 2019.

INFO5305: Usability and User Research Methods, Cornell Tech.
Instructor, Fall 2016, Spring 2018, Spring 2019, Spring 2020, Spring 2021.

INFO5310: Virtual and Augmented Reality, Cornell Tech.
Instructor, Fall 2017.

INFO5307: Future Interaction Techniques, Cornell Tech
Instructor, Spring 2016, Spring 2017.

INFO6410: Human Computer Interaction and Design, Cornell Tech
Instructor, Spring 2015.

Accessibility Capstone, University of Washington
Teaching Assistant, (2 quarters: 2011, 2012).

Junior Science Academy, National Federation of the Blind
Instructor, Summer 2010.

Middle East Education through Technology (MEET), Jerusalem, Israel
Computer Science Instructor, 2010.

CURRENT AND GRADUATED PHD STUDENTS SUPERVISED

1. Ricardo Gonzalez Penuela, Information Science, Cornell University. Expected graduation: 2025
2. Sharon Hueng, Information Science, Cornell University. Expected graduation: 2025
3. Mahika Phutane, Information Science, Cornell University. Expected graduation: 2025
4. Nialah Wilson, Aerospace Engineering, Cornell University. Expected graduation: 2022
5. Zikai Alex Wen, Computer Science, Cornell University. Expected graduation: 2021.
6. Yuhang Zhao, Information Science, Cornell University. Graduated 2020. Now Assistant Professor at the University of Wisconsin—Madison
7. Lei Shi, Information Science, Cornell University. Graduated 2019. Now at Google Inc.

CURRENT AND FORMER POSTDOCTORAL RESEARCHERS SUPERVISED

1. Sarit Szpiro. 2015 – 2016. Now Assistant Professor at the University of Haifa, Israel.

INDUSTRY EXPERIENCE

Contractor, Facebook Inc., Menlo Park, CA (2017-2018)
Manager and collaborator: Dr. Shaomei Wu

Research Intern, Microsoft Research, Redmond, WA (Summer 2012)
Mentors: Dr. Jaime Teevan and Dr. Meredith Morris
Project: Collaborative Co-Located Mobile Search

Research Intern, Google Inc., Mountain View, CA (2011–2012)
Mentor: Dr. Shumin Zhai
Project: Understanding and Simulating Touch Behavior on Smartphone Keyboards

Research Intern, AT&T Labs—Research. Florham Park, NJ (Summer 2009)
Mentors: Prof. Amanda Stent and Dr. Benjamin Stern
Project: iWalk: A Navigation System for People with Low-Vision

Software Engineer, Yahoo! Inc., Sunnyvale, CA (2008 – 2009)
Developed a distributed storage system for Yahoo! web applications.

Software Engineer, SugarSync Inc., Palo Alto, CA (2006 – 2008)
Developed a desktop client for a file synchronization platform for mobile and desktop computing devices.

GRANTS AND GIFTS

- *REU Site: Making Augmented and Virtual Reality Accessible.* **PI: Shiri Azenkot**, Co-PI Steven Feiner. National Science Foundation. 2021. *To be announced.*
- *Gift to support XR accessibility research.* **PI: Shiri Azenkot**. Oculus/Facebook ($100,000). 2020.
- *CAREER: Designing Head-Mounted Display Systems to Support People with Low Vision in Outdoor Navigation.* PI: Shiri Azenkot. National Science Foundation ($550,000). 2020.
- *Daydream Faculty Research Award.* **PI: Shiri Azenkot**, Google Inc. ($80,000).
- *Symposium: The XR Access Symposium 2020.* **PI: Shiri Azenkot**. National Science Foundation ($47,110). 2020.
- *Collaborative Research: CHS: Small: Improving Mobile Device Input for Users who are Blind or Low Vision*. PI: Keith Vertanen, **Co-PI: Shiri Azenkot**. National Science Foundation ($274,000). 2019.
- AIdentities: Exploring Representations of Identity in AI-Generated Descriptions of Visual Content. Magic Seed Grant, Brown Institute at Columbia University ($15,000). 2019.
- *EAGER: Using Large-scale Web Data for Online Attention Models and Identification of Reading Disabilities.* PI: Mor Naaman, Co-PIs: Shiri Azenkot and Yoav Artzi. National Science Foundation ($298,752). 2018.
- *Collaborative Research: EAGER: CyberLearning: SCIENCE: Systemic Cultivation of Inclusive Equitable Nurturing Classroom Ecology.* **PI: Shiri Azenkot**, Co-PI: Holly Lawson. National Science Foundation. ($300,000). 2017.
- *CRII: CHS: Customized Navigation for Older Adults with Vision Loss.* **PI: Shiri Azenkot**. National Science Foundation ($175,000). 2016.
- *Enhancing the Accessibility of Paper Documents for Low Vision People with a Smart Workplace Application*. PI: Shiri Azenkot, Co-PI: Yuhang Zhao. Innovations in Employment, Workplace Productivity, and Employee Engagement ($75,000). 2016.
- *Connected Futures Research Award*. **PI: Shiri Azenkot.** Verizon ($15,000). 2015.
- Faculty Research Award to support work on accessibility of social networking services for people with visual impairments. PIs: Shiri Azenkot and Gilly Leshed. Facebook ($25,000). 2015.
- AOL/Verizon Gift to establish the Connected Experiences Laboratory. PI/Director: Mor Naaman, Co-PIs: Deborah Estrin, Serge Belongie, and Shiri Azenkot ($5 Million). 2014.

SERVICE

Program Committee Member

- ACM CHI 2015, 2018, 2019.
- ACM ASSETS 2015, 2016, 2017, 2018.
- ACM UIST 2019.
- ACM CSCW 2018.
- Medical Technology Research Track, Grace Hopper Celebration of Women in Computing 2013
- ACM CHI Workshop on Mobile Accessibility 2013

Program Chair (with Shaun Kane), ACM ASSETS 2019.

Doctoral Consortium Chair, ACM ASSETS 2018.

Editorial Board, ACM Transactions on Accessible Computing (TACCESS)

DUB Group Coordinator, University of Washington (2012 – 2013)
Lead and coordinated inter-department, weekly human-computer interaction seminars.

Student Volunteer Coordinator, ACM ASSETS 2013
PEER Leader, UW College of Engineering, (2011)
Promoted diversity in the UW Engineering community through presentations to faculty and students.

Ad-hoc Reviewer

- International Journal of Human-Computer Studies
- ACM CHI, Conference on Human Factors in Computing
- ACM UIST, Conference on User Interface Software and Technology
- ACM ASSETS, Conference on Computers and Accessibility
- ACM MobileHCI, Conference on Mobile Human Computer Interaction
- International Journal of Human-Computer Studies
- TOCHI, Transactions on Computer-Human Interaction
- TACCESS, Transactions on Accessible Computing