

# Kristen Shinohara

School of Information  
B. Thomas Golisano College of Computing and Information Sciences  
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## ACADEMIC POSITION

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**Assistant Professor**, School of Information, B. Thomas Golisano College of Computing and Information Sciences, Rochester Institute of Technology (2017 – present).

## EDUCATION

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Ph.D., Information Science, University of Washington - Seattle, WA, Spring 2017  
*Emphasis on Human-Computer Interaction and Accessibility*

Dissertation: Design for Social Accessibility: Incorporating Social Factors in the Design of Accessible Technologies

Committee: Jacob O. Wobbrock (advisor), Wanda Pratt (co-advisor), Clayton Lewis, David Hendry, Richard Ladner

M.S., Computing and Software Systems, University of Washington - Tacoma, WA, June 2006  
*Final project focused on Human-Centered Design and Accessibility*

Advisor: Josh Tenenber

B.S., Computer Science, University of Puget Sound - Tacoma, WA, May 2002  
*Minors in Mathematics and Physics*

## FUNDING

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*(Over \$570,000 in research funding as PI, over \$3 million total)*

**Kristen Shinohara (PI)**. April 2022. "Think Aloud Protocols for Deaf and Hard of Hearing Designers and Users." Google Research Scholar Award. \$60,000.

**Kristen Shinohara (PI)**. Nov 2021. "Accessibility and User Privacy." Meta Platforms, Inc. Unrestricted Gift \$40,000.

**Kristen Shinohara (PI)**. Oct 2021 – Sep 2023. "Helping Computer Science Students Learn How to Build Accessible Computing." National Science Foundation Improving Undergraduate STEM Education. Collaborative grant with Catherine Baker (Creighton University) and Yasmine Elglaly (Western Washington University). Award No. 2121549, \$167,623.

Cecilia Alm (PI), Reynold Bailey (Co-PI), Matt Huenerfauth (Co-PI), Esa Rantanen (Co-PI), Ferat Sahin (Co-PI), Rain Bosworth (Senior Personnel), Gabriel Diaz (Senior Personnel), Christopher Kanan (Senior Personnel), **Kristen Shinohara (Senior Personnel)**. Sep 2021 – Aug 2026. "NRT-AI: AWARE-AI: AWAREness for Sensing Humans Responsibly with AI." National Science Foundation. Award No. 2125362, \$1,994,676.

**Kristen Shinohara (PI)**. Aug 2019 – Jul 2022. "Ethical Approaches to Empower Disabled Graduate Students in STEM." National Science Foundation Cultivating Cultures of Ethical STEM. Award No. 1926209, \$281,900.

Matt Huenerfauth (PI), **Kristen Shinohara (Joined as Co-PI in 2018)**. Dec 2015 – Nov 2019. "Ethical Inclusion of People with Disabilities through Undergraduate Computing Education." National Science Foundation Cultivating Cultures of Ethical STEM. Award No. SES-1540396, \$449,987.

**Kristen Shinohara (PI)**. Aug 2018 – Aug 2019. "Method Cards for User Centered Design." RIT Provost's Learning Innovation Grant (PLIG), Funding total: \$1000.

**Kristen Shinohara (PI)**. May 2018 – Aug 2019. "Academic Success for Blind Graduate Students in Computing and Information Sciences." RIT Grant Writer's Boot Camp, \$5000.

**Kristen Shinohara (PI)**. Sep 2012 – Aug 2015. "Developing Design for Social Acceptance: A new methodology incorporating social acceptability in the design of assistive devices." National Science Foundation Doctoral Dissertation Improvement. Award No. SES-1230435, \$15,000.

## AWARDS AND SCHOLARSHIPS

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**Best Paper Honorable Mention (top 5%)**, "Remotely Co-Designing Features for Communication Applications using Automatic Captioning with Deaf and Hearing Pairs," CHI 2022

**Best Paper Honorable Mention (top 5%)**, "The Burden of Survival: How Doctoral Students in Computing Bridge the Chasm of Inaccessibility," CHI 2021

**Nominee**, RIT Edwina Award for Gender Diversity and Inclusiveness, Center for Women and Gender, 2020.

**RIT Faculty Career Development Scholarship**, National Center for Faculty Development and Diversity (NCFDD) Faculty Success Program, 2018

**Scholarship Recipient**, Harlan Hahn Award, 2016

**Best Paper Award (top 1%)**, "In the Shadow of Misperception: Assistive Technology Use and Social Interactions," CHI 2011

**Second Place Winner**, Student Research Competition, ASSETS 2010

**Second Place Winner**, Touch Tablet and Accessibility Award, Team OneView, Imagine Cup 2010

**Honorable Mention**, NSF Graduate Research Fellowship, 2009

Resident Assistant Programmer of the Year, University of Puget Sound, 2001

President's Scholarship, University of Puget Sound, 1998

## PUBLICATIONS

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*(5 Journal Articles, 19 Conference Papers, 16 Posters, 1 Edited Journal Issue, 7 Other Reports )*

### Peer Reviewed Journal Articles

[J5] Jaisie Sin, Cosmin Munteanu, Michael Nixon, Velian Pandeliev, Garreth Tigwell, **Kristen Shinohara**, Anthony Tang and Steve Szigeti. Uncovering Inclusivity Gaps in Design Pedagogy through the Digital Design Marginalization Framework. *Frontiers in Computer Science. To Appear.*

[J4] Paula Conn, Taylor Gotfrid, Qiwen Zhao, Rachel Celestine, Vaishnavi Mande, **Kristen Shinohara**, Stephanie Ludi, and Matt Huenerfauth. 2020. Understanding the Motivations of Final-year Computing Undergraduates for Considering Accessibility. *ACM Transactions on Computing Education (TOCE)*. Volume 20, Article 15 (May 2020), 22 pages. <https://doi.org/10.1145/3381911>

[J3] **Kristen Shinohara**, Nayeri Jacobo, Wanda Pratt, and Jacob O. Wobbrock. 2020. Design for Social Accessibility Method Cards: Engaging Users and Reflecting on Social Scenarios for Accessible Design. *ACM Transactions on Accessible Computing (TACCESS)*. 12, 4, Article 17 (January 2020), 33 pages. <https://doi.org/10.1145/3369903>

[J2] **Kristen Shinohara**, Cynthia L. Bennett, Wanda Pratt, and Jacob O. Wobbrock. 2018. Tenets for Social Accessibility: Towards Humanizing Disabled People in Design. *ACM Transactions on Accessible Computing (TACCESS)*. 11, 1, Article 6 (March 2018), 31 pages. DOI: <https://doi.org/10.1145/3178855>

[J1] **Kristen Shinohara** and Jacob O. Wobbrock. 2016. Self-Conscious or Self-Confident? A Diary Study Conceptualizing the Social Accessibility of Assistive Technology. *ACM Transactions on Accessible Computing (TACCESS)*. 8, 2, Article 5 (January 2016), 31 pages. DOI: <http://dx.doi.org/10.1145/2827857>

### Peer Reviewed Conference Papers

[C18] Franklin Mingzhe Li, Franchesca Spektor, Meng Xia, Mina Huh, Peter Cederberg, Yuqi Gong, **Kristen Shinohara**, Patrick Carrington. 2022. It Feels Like Taking a Gamble": Exploring Perceptions, Practices, and Challenges of Using Makeup and Cosmetics for People with Visual Impairments. *In CHI Conference on Human Factors in Computing Systems (CHI '22)*. ACM, New York, NY, USA, Article 66, 1-15. DOI: <https://doi.org/10.1145/3491102.3517490> (24.7% acceptance rate)

[C17] Matthew Seita, Sooyeon Lee, Sarah Andrew, **Kristen Shinohara**, and Matt Huenerfauth. 2022. Remotely Co-Designing Features for Communication Applications using Automatic Captioning with Deaf and Hearing Pairs. *In CHI Conference on Human Factors in Computing Systems (CHI '22)*. ACM, New York, NY, USA, Article 460, 1-13. DOI: <https://doi.org/10.1145/3491102.3501843> (24.7% acceptance rate)  
*[Best Paper Honorable Mention; top 5% of all submissions]*

[C16] Murtaza Tamjeed, Vinita Tibdewal, Madison Russell, Michael McQuaid, Tae Oh, and **Kristen Shinohara**. 2021. Understanding Disability Services Toward Improving Graduate Student Support. *In The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21)*. ACM, New York, NY, USA, Article 3, 1-14. DOI: <https://dl.acm.org/doi/10.1145/3441852.3471231> (29% acceptance rate)

[C15] **Kristen Shinohara**, Michael McQuaid, and Nayeri Jacobo. 2021. The Burden of Survival: How Doctoral Students in Computing Bridge the Chasm of Inaccessibility. *In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '21)*. ACM, New York, NY, USA. *To Appear*. DOI: <https://doi.org/10.1145/3411764.3445277> (26.3% acceptance rate)  
*[Best Paper Honorable Mention; top 5% of all submissions]*

[C14] Junchen Li, Garreth W. Tigwell, **Kristen Shinohara**. 2021. Accessibility of High-Fidelity Prototyping Tools. *In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3411764.3445520> (26.3% acceptance rate)

[C13] **Kristen Shinohara**, Michael McQuaid, and Nayeri Jacobo. 2020. Access Differential and Inequitable Access: Inaccessibility for Doctoral Students in Computing. *In The 22nd International ACM SIGACCESS*

*Conference on Computers and Accessibility (ASSETS '20)*. ACM, New York, NY, USA, Article 7, 1–12. DOI: <https://doi.org/10.1145/3373625.3416989> (28% acceptance rate)

[C12] Qiwen Zhao, Vaishnavi Mande, Paula Conn, Sedeeq Al-khazraji, **Kristen Shinohara**, Stephanie Ludi, and Matt Huenerfauth. 2020. Comparison of Methods for Teaching Accessibility in University Computing Courses. In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*. Association for Computing Machinery, New York, NY, USA, Article 6, 1–12. DOI: <https://doi.org/10.1145/3373625.3417013> (28% acceptance rate)

[C11] Catherine Baker, Yasmine El-Glaly, **Kristen Shinohara**. A Systematic Analysis of Accessibility in Computing Education Research. In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE '20)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3328778.3366843> (31% acceptance rate)

[C10] **Kristen Shinohara**, Jacob O. Wobbrock, and Wanda Pratt. 2018. Incorporating Social Factors in Accessible Design. In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*. ACM, New York, NY, USA, 149-160. DOI: <https://doi.org/10.1145/3234695.3236346> (26% acceptance rate)

[C9] **Kristen Shinohara**, Saba Kawas, Amy J. Ko, and Richard E. Ladner. 2018. Who Teaches Accessibility?: A Survey of U.S. Computing Faculty. In *Proceedings of the 49th ACM Technical Symposium on Computer Science Education (SIGCSE '18)*. ACM, New York, NY, USA, 197-202. DOI: <https://doi.org/10.1145/3159450.3159484> (35% acceptance rate)

[C8] **Kristen Shinohara**, Cynthia L. Bennett, Jacob O. Wobbrock, Wanda Pratt. 2017. Teaching Accessibility in a Technology Design Course. *Computer Supported Collaborative Learning (CSCL '17)*. 239-246.

[C7] **Kristen Shinohara**, Cynthia L. Bennett, and Jacob O. Wobbrock. 2016. How Designing for People With and Without Disabilities Shapes Student Design Thinking. In *Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '16)*. ACM, New York, NY, USA, 229-237. DOI: <https://doi.org/10.1145/2982142.2982158> (25% acceptance rate)

[C6] **Kristen Shinohara** and Jacob O. Wobbrock. 2011. In the shadow of misperception: assistive technology use and social interactions. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '11)*. ACM, New York, NY, USA, 705-714. DOI: <https://doi.org/10.1145/1978942.1979044> (27% acceptance rate) *[Best Paper Award; top 1% of all submissions]*

[C5] Jacob O. Wobbrock, **Kristen Shinohara**, and Alex Jansen. 2011. The effects of task dimensionality, endpoint deviation, throughput calculation, and experiment design on pointing measures and models. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '11)*. ACM, New York, NY, USA, 1639-1648. DOI: <https://doi.org/10.1145/1978942.1979181> (27% acceptance rate)

[C4] Jacob O. Wobbrock, Alex Jansen, and **Kristen Shinohara**. 2011. Modeling and predicting pointing errors in two dimensions. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '11)*. ACM, New York, NY, USA, 1653-1656. DOI: <https://doi.org/10.1145/1978942.1979183> (27% acceptance rate)

[C3] Leah Findlater, Alex Jansen, **Kristen Shinohara**, Morgan Dixon, Peter Kamb, Joshua Rakita, and Jacob O. Wobbrock. 2010. Enhanced area cursors: reducing fine pointing demands for people with motor

impairments. In *Proceedings of the 23rd annual ACM symposium on User interface software and technology (UIST '10)*. ACM, New York, NY, USA, 153-162. DOI: <https://doi.org/10.1145/1866029.1866055> (18% acceptance rate)

[C2] **Kristen Shinohara** and Josh Tenenber. 2009. A blind person's interactions with technology. *Communications of the ACM (CACM)* 52, 8 (August 2009), 58-66. DOI: <https://doi.org/10.1145/1536616.1536636> [Cover Story]

[C1] **Kristen Shinohara** and Josh Tenenber. 2007. Observing Sara: a case study of a blind person's interactions with technology. In *Proceedings of the 9th international ACM SIGACCESS conference on Computers and accessibility (ASSETS '07)*. ACM, New York, NY, USA, 171-178. DOI: <https://doi.org/10.1145/1296843.1296873> (31% acceptance rate)

### Peer Reviewed Abstracts and Posters

[P16] Lilu Martin, Catherine M. Baker, **Kristen Shinohara**, and Yasmine N. Elglaly. 2022. The Landscape of Accessibility Skill Set in the Software Industry Positions. In The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22), October 23–26, 2022, Athens, Greece. ACM, New York, NY, USA, 4 pages. <https://doi.org/10.1145/3517428.3550389>

[P15] Laleh Nourian, **Kristen Shinohara**, Garreth W. Tigwell. 2022. Digital Accessibility in Iran: An Investigation Focusing on Iran's National Policies on Accessibility and Disability Support. In The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22), October 23–26, 2022, Athens, Greece. ACM, New York, NY, USA, 7 pages. <https://doi.org/10.1145/3517428.3550385>

[P14] Urvashi Kokate, **Kristen Shinohara**, Garreth W. Tigwell. 2022. Exploring Accessibility Features and Plugins for Digital Prototyping Tools. In The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22), October 23–26, 2022, Athens, Greece. ACM, New York, NY, USA, 6 pages. <https://doi.org/10.1145/3517428.3550391>

[P13] Athira Pillai, **Kristen Shinohara**, Garreth W. Tigwell. 2022. Website Builders Still Contribute To Inaccessible Web Design. In The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22), October 23–26, 2022, Athens, Greece. ACM, New York, NY, USA, 6 pages. <https://doi.org/10.1145/3517428.3550368>

[P12] Becca Dingman, Garreth W. Tigwell, and **Kristen Shinohara**. 2021. Designing a Podcast Platform for Deaf and Hard of Hearing Users. *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21)*. Association for Computing Machinery, New York, NY, USA, Article 59, 1–4. DOI: <https://doi.org/10.1145/3441852.3476523>

[P11] Becca Dingman, Garreth W. Tigwell, and **Kristen Shinohara**. 2021. Interview and Think Aloud Accessibility for Deaf and Hard of Hearing Participants in Design Research. *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21)*. Association for Computing Machinery, New York, NY, USA, Article 71, 1–3. DOI: <https://doi.org/10.1145/3441852.3476526>

[P10] Lin Jia, Yasmine N. Elglaly, Catherine M. Baker, and **Kristen Shinohara**. 2021. Infusing Accessibility into Programming Courses. *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA '21)*. Association for Computing Machinery, New York, NY, USA, Article 231, 1–6. DOI: <https://doi.org/10.1145/3411763.3451625>

- [P9] Rohan Patel, Pedro Breton, Catherine M. Baker, Yasmine N. El-Glaly, and **Kristen Shinohara**. 2020. Why Software is Not Accessible: Technology Professionals' Perspectives and Challenges. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA '20)*. Association for Computing Machinery, New York, NY, USA, 1–9. DOI: <https://doi.org/10.1145/3334480.3383103>
- [P8] Natalie Maus, Dalton Rutledge, Sedeeq Al-Khazraji, Reynold Bailey, Cecilia Ovesdotter Alm, and **Kristen Shinohara**. 2020. Gaze-guided Magnification for Individuals with Vision Impairments. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA '20)*. Association for Computing Machinery, New York, NY, USA, 1–8. DOI: <https://doi.org/10.1145/3334480.3382995>
- [P7] Annuska Zolyomi, Taylor Gotfrid, and **Kristen Shinohara**. 2019. Socializing via a Scarf: Individuals with Intellectual and Developmental Disabilities Explore Smart Textiles. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*. ACM, New York, NY, USA, Paper LBW0217, 6 pages. DOI: <https://doi.org/10.1145/3290607.3313020>
- [P6] **Kristen Shinohara**. (2018). Academic Success for Blind Graduate Students in Computing and Information Sciences. *Fall Research Reception*, Rochester Institute of Technology. Poster Presentation.
- [P5] Cynthia L. Bennett, **Kristen Shinohara**, Brianna Blaser, Andrew Davidson, and Kat M. Steele. 2016. Using a Design Workshop To Explore Accessible Ideation. In *Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '16)*. ACM, New York, NY, USA, 303–304. DOI: <https://doi.org/10.1145/2982142.2982209>
- [P4] **Kristen Shinohara**. 2010. Investigating meaning in uses of assistive devices: implications of social and professional contexts. In *Proceedings of the 12th international ACM SIGACCESS conference on Computers and accessibility (ASSETS '10)*. ACM, New York, NY, USA, 319–320. DOI: <https://doi.org/10.1145/1878803.1878891> [**ACM Student Research Competition, Second Place Winner**]
- [P3] Rupa Patel, **Kristen Shinohara**, Laura Marshall, Walter Curioso. (2009). Approaches to tagging by physicians: a design exploration. *AMIA Annual Symposium Proceedings*. Nov 2009. 16:977.
- [P2] Eun Kyoung Choe, **Kristen Shinohara**, Parmit K. Chilana, Morgan Dixon, and Jacob O. Wobbrock. 2009. Exploring the design of accessible goal crossing desktop widgets. In *CHI '09 Extended Abstracts on Human Factors in Computing Systems (CHI EA '09)*. ACM, New York, NY, USA, 3733–3738. DOI: <https://doi.org/10.1145/1520340.1520563>
- [P1] **Kristen Shinohara**. 2006. Designing assistive technology for blind users. In *Proceedings of the 8th international ACM SIGACCESS conference on Computers and accessibility (Assets '06)*. ACM, New York, NY, USA, 293–294. DOI: <https://doi.org/10.1145/1168987.1169062> [**ACM Student Research Competition, Finalist**]

## Edited Journals

- [EJ1] **Kristen Shinohara** and Foad Hamidi. 2021. Introduction to the Special Issue on ASSETS'19. *ACM Transactions on Accessible Computing (TACCESS)*. 14, 4, Article 18e (December 2021), 2 pages. DOI: <https://doi.org/10.1145/3486212>

## Other Publications and Reports

[R7] **Kristen Shinohara** and Garreth Tigwell. 2021, June 3. *Why getting more people with disabilities developing technology is good for everyone*. The Conversation. <https://theconversation.com/why-getting-more-people-with-disabilities-developing-technology-is-good-for-everyone-159619>

[R6] Catie Baker, Andrew Begel, Matthew Butler, Anat Caspi, Ramy Ghazal, Neal Kingston, Clayton Lewis, Colleen Lewis, Kelly Mack, Irene Mbari-Kirika, Keita Ohshiro, Paige Rodeghero, **Kristen Shinohara**, Julie Smith, Namrata Srivastava, Kat Steele, Murtaza Tamjeed, John Tang, Adiam Tesfay, Momona Yamagami. *Accessible Computing Education in Colleges and Universities*. Accessible Computer Science Education Fall Workshop Breakout Group Report. <https://www.microsoft.com/en-us/research/uploads/prod/2021/02/Accessible-CS-Ed-in-Colleges-and-Universities Andrew-Begel.pdf>

[R5] Martez E. Mott and **Kristen Shinohara**. 2020. ASSETS 2019 accessible posters and demos report. SIGACCESS Accessible Computing Newsletter, 126, Article 6 (January 2020), 1 pages. DOI: <https://doi.org/10.1145/3386280.3386286>

[R4] Taylor Gotfrid and **Kristen Shinohara**. 2018. Designing E-Textiles with Adults with Intellectual Disabilities. SIGACCESS Accessible Computing Newsletter 122 (October 2018).

[R3] Tara Coffin, Henry Lyle, **Kristen Shinohara** and Abigail Evans, "Integrated Planning and Advising Services: UW Faculty & Student Perceptions, 2016," March 3, 2016. <https://itconnect.uw.edu/learn/research/integrated-planning-and-advising-services-uw-faculty-student-perceptions/>

[R2] Allie Peters, Shane A. Brown, Kevin Chang, Katherine N. Thornton, **Kristen Shinohara**, Kacey Beddoes. (2015). Refinement and dissemination of a digital platform for sharing transportation education materials. Atlanta: *American Society for Engineering Education-ASEE*. DOI: <http://doi.org/10.18260/p.24658>

[R1] **Kristen Shinohara**. 2012. A new approach for the design of assistive technologies: design for social acceptance. *SIGACCESS Accessible Computing Newsletter 102* (January 2012), 45-48. DOI: <http://dx.doi.org/10.1145/2140446.2140456> [ASSETS 2011 Doctoral Consortium Participant]

## INVITED TALKS AND PRESENTATIONS

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Computing Research Association Snowbird CS Chairs Conference. Invited lightning talk, "Accessible Computing Education in Colleges and Universities," [Session on Reports from the Computing Research Community](#). July 2022.

Teach Access, Monthly call short presentation with Elissa Weeden, "Teaching Accessibility at RIT," April 2022

AccessComputing, Monthly call short presentation, "Understanding Disability Services Toward Improving Graduate Student Support," October, 2021.

AccessComputing, Monthly call short presentation, "Access Differential and Inequitable Access: Inaccessibility for Doctoral Students in Computing," October, 2020.

AccessComputing, Monthly call short presentation, "Blind Graduate Students in Computing Fields," December 6, 2018.

Syracuse University School of Information Studies Brown Bag, "Incorporating Social Factors in Technology Design," September 24, 2018.

GCCIS PhD Research Colloquium in Computing and Information Sciences, "Incorporating Social Factors in Technology Design," February 9, 2018.

RIT CREW 20/20 Research in Focus Fall Colloquium, "Interaction Design for Social Accessibility," November 16, 2017.

Disability Studies Brown Bag, invited talk, "Design for Social Accessibility: Shifting Design Perspectives for Accessible Computing," March 2017.

## **SYMPOSIA AND COLLOQUIA**

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### **Organizer**

Workshop Co-Organizer with Catherine Baker, Yasmine N. Elglaly, Anne Spencer Ross. Including Accessibility in Computer Science Education. ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22). Fall 2022.

Workshop Co-Organizer with Richard Ladner and Amy Ko. AccessComputing Presymposium [Session on Integrating Accessibility and Disability into the Computing Curriculum](#). Technical Symposium on Computer Science Education (SIGCSE). March, 2022.

Workshop Co-Organizer with Shawn Walker, Christian Newman, Nicholas Proferes, Emi Moriuchi. [Exploring the Shifting Sands: Accounting for Evolution In Analyzing Data from Social Media Platforms](#). Association of Internet Researchers (AOIR). Fall 2018.

### **Participant**

CHI 2022 Workshop. [Dreaming Disability Justice in HCI](#), Accepted Abstract, "Empowering Disabled Graduate Students and Beyond: Critical Views on Future Directions for Research," Virtual Workshop, April 22, 2022.

National Science Foundation Ethical and Responsible Research (ER2) 2021 PI Meeting. 2021.

Kristen Shinohara and Matt Huenerfauth. 2021. Reflection on How We Include Disability in HCI [Conference presentation]. June 20-24, 2021. [Human Computer Interaction Consortium](#). [https://drive.google.com/file/d/1QUwZDoKF\\_W\\_4f16BwTbn7\\_poVLmfF-ch/view](https://drive.google.com/file/d/1QUwZDoKF_W_4f16BwTbn7_poVLmfF-ch/view)

Garreth Tigwell, Kristen Shinohara, and Michael McQuaid. 2021. If You Don't Build It, They Won't Come: HCI has an Inaccessibility Problem. [Conference Presentation]. June 20-24. [Human Computer Interaction Consortium](#). [https://drive.google.com/file/d/1QUwZDoKF\\_W\\_4f16BwTbn7\\_poVLmfF-ch/view](https://drive.google.com/file/d/1QUwZDoKF_W_4f16BwTbn7_poVLmfF-ch/view)

Accessible Computer Science Education Fall Workshop, hosted by Microsoft Research, invited participant, November 17-19, 2020 <https://www.microsoft.com/en-us/research/event/accessible-cs-education-fall-workshop/>

CHI 2020 Workshop. [Nothing About Us Without Us: Investigating the Role of Critical Disability Studies in HCI](#), Accepted Abstract, "Empowering Graduate Students with Disabilities in Computing: Motivation and Direction." Workshop not held due to COVID-19. May 2020.



NSF-Funded Fairness, Ethics, Accountability, and Transparency (FEAT) in Computer and Information Science and Engineering Workshop, invited participant, August 2019.

CHI 2019 Early Career Symposium, participant, May 2019.

NSF Workshop on Cultivating Cultures in Ethical STEM, project representative, September 2018.

CRA-W Early Career Graduate Student Mentoring Workshop, participant, March 2017

Pacific and Western Disability Studies Symposium, Emerging Scholarship in Disability Studies Workshop Participant, May 2016

## TEACHING

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### Instructor, Information Sciences and Technologies, RIT

Foundations of Human-Centered Computing (ISTE-262), Spring 2022

*Updated course topics to match similar intro-level HCI courses from top HCI institutions, specifically incorporating additional design perspectives.*

MS Human Computer Interaction Capstone Proposal (HCIN-794), Fall 2020, Fall 2021

Graduate Seminar (ISTE 798): "Qualitative Research Methods in Computing and Information Sciences," Spring 2020, Spring 2021

*Conceptualized and created course to provide students with methodological background, knowledge, and skill in qualitative methods used in HCI, computing, and information science.*

User-Centered Design Methods (HCIN-730), Fall 2018, Fall 2019

*Redesigned course to include co-design activities with expert users, including collaboration with NTID UX/UI design class students, reframing course to incorporate accessible design, and facilitating 4-5 user sessions where students work hands-on with users on their designs.*

Usability Testing (HCIN-630), Spring 2018, Spring 2019

Foundations of HCI (HCIN-610), Fall 2017

Independent Study: Introduction to Qualitative Methods for HCI (CISC-899), Spring 2019

### Instructor of Record, Information School, UW

Design Thinking (INFO 360), Fall 2013, Fall 2014

Input and Interaction (INFO 463), Spring 2013, Spring 2015

### Co-Instructor of Record, Information School, UW

Web Tools and Development (INFO 344), Summer 2013

### Guest Lecture

Design for Social Accessibility: Perspective and Method Cards (Carnegie Mellon University: 05-499 / 05-899 Accessibility: A Guide to Building Future User Interfaces), Spring 2021

Capstone Experience (RIT: HCIN-794), Research Topics for Student Capstones, Fall 2018.

Ethics in the Digital Era (RIT: DHSS 103), Designing for Disability, Spring 2018

Design Methods for Librarianship (UW: LIS 547), Conversation on Accessible Design, Spring 2018  
 Information and Interaction Design (RIT: HCIN-620), Disability-Specific Design, Fall 2017  
 Research Methods in Informatics, (UW: INFO 470): Case Studies, Fall 2010, Fall 2016  
 Research Methods in Informatics, (UW: INFO 570): Qualitative Data Analysis, Fall 2015, Fall 2016

### **Teaching Assistant, Information School, UW**

Research Methods in Informatics (INFO 470), Fall 2016  
 Client Side Web Development/Technologies (INFO 343), Summer 2013, Summer 2015  
 Server Side Web Tools and Development (INFO 344), Summer 2015  
 Advanced Database Design, Management, Maintenance (INFO 445), Fall 2010  
 Cooperative Software Design (INFO 461), Winter 2013  
 Design Thinking (INFO 360), Fall 2011  
 Design and Development of Interactive Systems - Informatics Capstone (INFO 490), Winter 2010, Spring 2010, Winter 2011, Spring 2011, Winter 2012, Spring 2012

## **STUDENT MENTORING**

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### **Undergraduate Students**

Bethany Cacayorin, HCC BS, RIT Undergraduate LSAMP Scholar, Summer Program 2022  
 Kwame Andre, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2022  
[\(https://www.cs.rit.edu/~reu/\)](https://www.cs.rit.edu/~reu/)  
 Juno Bartsch, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2022  
[\(https://www.cs.rit.edu/~reu/\)](https://www.cs.rit.edu/~reu/)  
 Jessica DeWitt, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2021  
[\(https://www.cs.rit.edu/~reu/\)](https://www.cs.rit.edu/~reu/)  
 Sarah Kitten, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2021  
[\(https://www.cs.rit.edu/~reu/\)](https://www.cs.rit.edu/~reu/)  
 Madison Russell, HCC BS, RIT Undergraduate Co-op, Research Assistant, Spring 2021  
 Natalie Maus, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2019  
[\(https://www.cs.rit.edu/~reu/\)](https://www.cs.rit.edu/~reu/), nominated to the Council on Undergraduate Research to represent the RIT CompuSense site at the October 2018 REU Symposium.  
 Dalton Rutledge, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2019  
[\(https://www.cs.rit.edu/~reu/\)](https://www.cs.rit.edu/~reu/)  
 Stephen Ramirez – Informatics Capstone Mentor, UW, Spring 2015  
 Sean Dokko – Internship in Informatics, UW, Spring 2013

### **Master's Thesis Students**

Elizabeth Codick – HCI M.S., RIT, Committee Member, Graduated Spring 2022.  
 Taylor Gotfrid – HCI M.S., RIT, Chair, Graduated Summer 2019, Currently: UW PhD Student in Computer Science and Engineering

### Master's Capstone Students

Jen-i Wang – HCI M.S., RIT, Chair, Fall 2021 – present  
 Matthew Watkins – HCI M.S., RIT, Chair, Fall 2021 – present  
 Anna Jacobsen – HCI M.S., RIT, Committee Member, Fall 2021 – present  
 Andre Udegbe – HCI M.S., RIT, Chair, Fall 2020 – present

Dymen Barkins – HCI M.S., RIT, Chair, Graduated Fall 2021  
 Rachel Simizon – HCI M.S., RIT, Chair, Graduated Fall 2021  
 Urvashi Koktae – HCI M.S., RIT, Committee Member, Graduated Fall 2021  
 Anyi Dai – HCI M.S., RIT, Chair, Graduated Spring 2021  
 Becca Dingman – HCI M.S., RIT, Chair, Graduated Spring 2021  
 Athira Pillai – HCI M.S., RIT, Committee Member, Graduated Spring 2021  
 Archit Jha – HCI M.S., RIT, Chair, Graduated Fall 2020  
 Lin Jia – HCI M.S., RIT, Chair, Graduated Fall 2020  
 Wenhao Luebs – HCI M.S., RIT, Chair, Graduated Fall 2020  
 Patrick Scully – HCI M.S., RIT, Chair, Graduated Fall 2020  
 Ruiwen Fan – HCI M.S., RIT, Committee Member, Graduated Fall 2020  
 Hui-yu Ho – HCI M.S., RIT, Committee Member, Graduated Spring 2020  
 Pritishsai Kannon – HCI M.S., RIT, Chair, Graduated Spring 2020  
 Rachel Celestine – HCI M.S., RIT, Committee Member, Graduated Spring 2020  
 Rohan Patel – HCI M.S., RIT, Chair, Graduated Summer 2020  
 Kshitij Sinha – HCI M.S., RIT, Chair, Graduated Fall 2019  
 Nayeri Jacobo – HCI M.S., RIT, Chair, Graduated Fall 2019  
 Steven Forney – HCI M.S., RIT, Committee Member, Graduated Fall 2019  
 Manu Suresh – HCI M.S., RIT, Committee Member, Graduated Fall 2019  
 Shuishi Fang – HCI M.S., RIT, Chair, Graduated Fall 2019  
 Nidhi Palan – HCI M.S., RIT, Committee Member, Graduated Fall 2019  
 Peter Yeung – HCI M.S., RIT, Committee Member, Graduated Spring 2019  
 Archana Ramesh – HCI M.S., RIT, Committee Member, Graduated Fall 2018

### Master's Graduate Research Assistants

Yiwen "Molly" Wang, 2021-2022 – Submitted manuscript Spring 2022, Currently: PhD student, University of Maryland, College Park, School of Information  
 Dymen Barkins, 2020-2021 – Submitted manuscript Spring 2022  
 Wenhao Luebs, 2019-2020 – Submitted manuscript Spring 2022  
 Nayeri Jacobo, 2018-2019 – Published at TACCESS 2020, ASSETS 2020, CHI 2021  
 Taylor Gotfrid, 2017-2018 – Published at CHI 'EA 2019, SIGACCESS Newsletter, Currently: PhD student, University of Washington, Computer Science and Engineering

### PhD Student Advising

Emily Kuang, GCCIS, Ph.D., RIT, Advisor, 2021 – present  
 Murtaza Tamjeed, GCCIS, Ph.D., RIT, Advisor, 2020 – present  
 Jade Myers – GCCIS, Ph.D., RIT, Advisor, 2018 – 2019

## PhD Student Committees

Laleh Nourian – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2021-2022  
 Sarah Andrew – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2021-2022  
 Caluã de Lacerda Pataca- GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2021-2022  
 Oliver Alonzo – GCCIS, Ph.D., RIT, Committee Member, 2021 – present  
 John Sohrawardi – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – 2020  
 Akhter Al Amin – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – 2020  
 Abraham Glaser – GCCIS, Ph.D., RIT, Committee Member, 2021 – present  
 Larwan Berke – GCCIS, Ph.D., RIT, Committee Member, 2018 – present  
 Matt Seita – GCCIS, Ph.D., RIT, Committee Member, 2018 – present  
 Sedeeq Al-khazraji, Ph.D., RIT, Committee Member, Graduated Fall 2021  
 Khaled Albusays – GCCIS, Ph.D., RIT, Committee Member, 2018 – 2020, Graduated Fall 2020

## SERVICE

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### Service to the Department

School of Information Faculty Search Co-Chair with Qi Yu, AY 2021-2022  
 UX Studio Judge, Spring 2021  
 HCI MS Program Coordinator, 2020-present  
 HCI Colloquium Lead, 2018 – present, HCI guest speakers series; invited visiting scholars from other institutions to give research talks and meet members of the RIT community.  
 HCI Search Committee, Member, 2018 – Participated in the search committee for three tenure-track positions as part of a cluster-hire in human-computer interaction.  
 Information Sciences and Technologies Poster Committee, Member, 2018  
 Information Sciences and Technologies Department Student Orientation Undergraduate Passport Activity, Meet & Greet with Professors, 2017

### Service to the College

GCCIS Dean's Search Committee Member, AY 2021-2022  
 GCCIS Outstanding Scholar Award Committee, Member, AY 2021-2022  
 AWARE-AI NSF Research Trainee program, Senior Personnel, Co-Lead for Diversity and Inclusion, 2022-present  
 GCCIS Research Experiences for Undergraduates (REU) Mentor, Computational Sensing for Human-Centered AI, <https://www.cs.rit.edu/~reu/>, Summer 2019, 2021, 2022  
 GCCIS PhD Curriculum Committee, Member, Spring 2018, 2018-2019  
 Active participation in various college search activities (for CSEC and CS): attending various talks, meeting and attending dinners with candidates and provided informal feedback, 2018  
 GCCIS Outstanding Scholar Award Committee, Member, Fall 2017  
 UW Information School PhD Admissions Committee, Student Member, 2011 – 2012  
 UW Information School Doctoral Student Association, Chair, 2009 – 2010

## Service to the University

RIT Provost's Discussion Group Participant on Future of AI at RIT, Fall 2021

RIT Sponsored Research Services Internal Review Panel Member, Fall 2019

## Service to the Profession

### U.S. National Science Foundation (NSF) Review Panelist

Directorate for Computer and Information Science and Engineering, Spring 2022

Directorate for Education and Human Resources, Spring 2022

Directorate for Computer and Information Science and Engineering, Core Programs, Broadening Participation in Computing, Spring 2021

### Conference on Computers and Accessibility (ASSETS)

Technical Program Co-Chair with Stephanie Ludi, University of North Texas, 2022

*Organize 70 member program committee, release Call for Papers, manage submission and review process for main technical papers track, coordinate review process with sub-track chairs (posters and demos, experience reports), organize conference program and coordinate presentations.*

Treasurer/Registration Chair, 2021

*Manage conference budget and coordinate with conference sponsors. Set up registration site and fee structure; manage registrations, including refunds, wire transfers, coordinate attendance with program and virtual chairs, provide receipts, attendance certificate, and vendor invoices.*

Session Co-Chair with Ana Cristina Pires, University of Lisbon, 2020

Doctoral Consortium, Faculty Mentor, 2019

*Participate in full-day consortium activities prior to the workshop, give feedback on PhD student work.*

Posters Co-Chair with Martez Mott, Microsoft Research, 2019

*Manage and coordinate review process with 50+ member program committee for posters and demonstrations track, [organized the conference's first accessible poster session](#).*

Session Chair, 2018

Program Committee, Inaugural Proceedings Chair, 2018

*Liaise between conference program chairs and publisher (Sheridan), ensure PDFs of final submissions were accessible.*

Reviewer, 2014, 2015, 2018 – 2020

### Conference on Human Factors in Computing (CHI)

Program Committee, Subcommittee Co-Chair (SC) with Stacy Branham, University of California, Irvine Karyn Moffat, McGill University, Aisling Kelliher, Virginia Tech, CHI 2023

*Recruit and coordinate ~30 associate chairs for the accessibility and aging subcommittee. Manage the review process for the subcommittee from paper submission to reviews to revision process.*

Program Committee, Associate Chair (AC), 2017 – 2019

*Recruit and coordinate reviewers for up to 15 papers, including conducting meta-reviews for 7-8 papers, manage reviews for each paper, and lead discussions during program committee meeting.*

Diversity Lunch, Table Leader, 2018

Reviewer, 2008 – present

Student Volunteer, 2009-2011

### **Transactions on Accessible Computing (TACCESS)**

*A quarterly peer-reviewed journal that publishes refereed articles on computing and accessibility.*

ASSETS 2019 Special Issue Guest Co-Editor with Foad Hamidi, UMBC, 2021

Reviewer, 2018, 2019, 2021

### **AccessComputing/DO-IT**

*The [AccessComputing](#) program is dedicated to increasing the participation of people with disabilities in computing fields. University of Washington's [DO-IT](#) program connects people with disabilities to opportunities in higher education and beyond.*

Workshop Co-Organizer with Richard Ladner and Amy Ko. AccessComputing Presymposium [Session on Integrating Accessibility and Disability into the Computing Curriculum](#). Technical Symposium on Computer Science Education (SIGCSE). March, 2022.

AccessComputing Representative for RIT, Fall 2017 – present

DO-IT Summer Study Workshop, Faculty Mentor, 2020

[OurCS@AccessComputing+CREATE](#), Faculty Workshop Mentor/Facilitator, Jan 13-15, 2021

### **Other Service to the Profession**

Accessibility and Inclusive Design ACM/IEEE/AAAI curriculum subcommittee member for HCI, of the task force revising computer science curricular standards, AY 2021-22

Advisory Board Member, "[Broadening Participation in Computing Ethics Curriculum Development](#)," NSF project PI: Jason Borenstein, Co-PIs: Ellen Zegura and Charles Isbell, funded 2021.

Human Computer Interaction Consortium, Representative for RIT (with Matt Huenerfauth), Spring 2019 – present

[HCIC 2021](#) Session Chair, Session on Education and Inclusion, June 20-24, 2021.

TeachAccess, Representative for RIT, Spring 2019 – present

Washington Talking Book and Braille Library volunteer, 2009

### **Other Reviewing**

Designing Interactive Systems (DIS), Reviewer, 2022

Transactions on Computer-Human Interaction (TOCHI), Reviewer, 2018, 2021

*A peer reviewed journal in Human Computer Interaction that publishes refereed articles covering software, hardware and human aspects of interaction with computers.*

International Journal of Human-Computer Studies, Reviewer, 2018

Studies in Higher Education, Reviewer, 2018

ACM Interactive, Multimedia, Wearable and Ubiquitous Technologies (IMWUT), Reviewer, 2018

iConference Reviewer, 2010

## NEWS AND MEDIA

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Shelby Brown. 2019. Mobile apps give the blind and visually impaired a new sense of freedom. CNET. Retrieved from <https://www.cnet.com/news/mobile-apps-give-the-blind-and-visually-impaired-a-new-sense-of-freedom/>

Scott Bureau. 2019. RIT Experts Focus on User-Centered Design to Make Computing Accessible. RIT Research Magazine, Spring/Summer 2018. Pages 22-27. Retrieved from <https://www.rit.edu/sites/rit.edu/files/documents/research-magazines/Research-Magazine-Spring-Summer-2018.pdf>

## PROFESSIONAL EXPERIENCE

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Data Analyst, UW-IT, Academic and Collaborative Applications, March 2015 – June 2015

Co-Founder and Lead UX Designer, InfoZaiku, LLC. April 2013 – April 2015.

Computer Scientist, HCI Engineer, NewTec, LLC/ManTech, Inc., Fort Lewis, WA, July 2007 – 2009

Software Engineer, Dimension 4, Inc., Bremerton, WA, July 2003 – July 2007

Associate Consultant, Avue Technologies, Tacoma, WA, March – July 2003

## MEMBERSHIPS

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Association for Computing Machinery (ACM).

Special interest group in Computer-Human Interaction (SIGCHI).

Special interest group in Accessible Computing (SIGACCESS).

UW Design Use Build (DUB) Group, Member

Upsilon Pi Epsilon, Member, University of Washington, Tacoma Chapter