

# Kristen Shinohara

Assistant Professor

B. Thomas Golisano College of Computing and Information Sciences

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## EDUCATION

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Ph.D., Information Science, University of Washington - Seattle, WA, Spring 2017

Emphasis on Human-Computer Interaction and Accessibility

Thesis: 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

## AWARDS

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2018 RIT Provost's Learning Innovation Grant (PLIG) Recipient (\$1000)

2018 RIT Grant Writer's Boot Camp Seed Funding Recipient (\$5000)

2016 Harlan Hahn Award Recipient

2012 National Science Foundation Doctoral Dissertation Improvement Award: Developing Design for Social Acceptance: Including social acceptability in the design of assistive devices." [SES-1230435]: \$15,000.

2011 Best Paper Winner, "In the Shadow of Misperception: Assistive Technology Use and Social Interactions," ACM Conference on Human Factors in Computing Systems (CHI '11)

2010 Second Place Winner, Student Research Competition, ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '10)

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

2009 NSF Graduate Research Fellowship, Honorable Mention

PUBLICATIONS

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## Refereed Articles

**Shinohara, K.**, Wobbrock, J. O., & Pratt, W. 2018. Incorporating Social Factors in Accessible Design. In Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18) (10 pages.). Galway, Ireland, UK.: ACM. *To Appear*.

**Shinohara, K.**, Bennett, C. L., Pratt, W., and Wobbrock, J. O. 2018. Tenets for Social Accessibility: Towards Humanizing Disabled People in Design. ACM Transactions on Accessible Computing (TACCESS). 11, 1: 1–31. <https://doi.org/10.1145/3178855>

**Shinohara, K.**, Kawas, S., Ko, A.J., and Ladner, R. E. 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>.

**Shinohara, K.**, Bennett, C.L., Wobbrock, J.O., Pratt, W. 2017. Teaching Accessibility in a Technology Design Course. Computer Supported Collaborative Learning (CSCL '17). 239–246.

**Shinohara, K.**, Bennett, C. L., & Wobbrock, J. O. 2016. How Designing for People With and Without Disabilities Shapes Student Design Thinking. ACM SIGACCESS Conference on Computers and Accessibility. (Reno, Nevada) ASSETS '16. ACM, New York, NY, 229–237. DOI=<http://dx.doi.org/10.1145/2982142.2982158>

**Shinohara, K.**, & Wobbrock, J. O. 2016. Self-Conscious or Self-Confident? A Diary Study Conceptualizing the Social Accessibility of Assistive Technology. ACM Transactions on Accessible Computing, 8(2), 1–31. DOI=<http://dx.doi.org/10.1145/2827857>

**Shinohara, K.** and Wobbrock, J.O. 2011. In the Shadow of Misperception: Assistive Technology Use and Social Interactions. ACM Conference on Human Factors in Computing Systems. (Vancouver, B.C., Canada). CHI '11. ACM, New York, NY, 705–714. [**Best Paper Winner; top 1% of all submissions**] DOI=<http://dx.doi.org/10.1145/1978942.1979044>

Wobbrock, J.O., **Shinohara, K.**, Jansen, A. 2011. The Effects of Task Dimensionality, Endpoint Deviation, Throughput Calculation, and Experiment Design on Pointing Measures and Models. ACM Conference on Human Factors in Computing Systems. (Vancouver, B.C., Canada). CHI '11. ACM, New York, NY, 1639–1648. DOI=<http://dx.doi.org/10.1145/1978942.1979181>

Wobbrock, J.O., Jansen, A., **Shinohara, K.** 2011. Modeling and Predicting Pointing Errors in Two Dimensions. ACM Conference on Human Factors in Computing Systems. (Vancouver, B.C., Canada). CHI '11. ACM, New York, NY, 1653–1656 . DOI=<http://dx.doi.org/10.1145/1978942.1979183>

Findlater, L., Jansen, A., **Shinohara, K.**, Dixon, M., Kamb, P., Rakita, J. and Wobbrock, J. O. 2010. Enhanced area cursors: reducing fine pointing demands for people with motor impairments.

Proceedings of the ACM Symposium on User Interface Software and Technology. (New York, NY, USA). UIST '10. ACM, New York, NY, 153-162. DOI=<http://doi.acm.org/10.1145/1866029.1866055>

**Shinohara, K.** and Tenenberg, J. 2009. A blind person's interactions with technology.

Communications of the ACM. 52 (8), 58-66. [**Cover Story**]

DOI=<http://dx.doi.org/10.1145/1536616.1536636>

**Shinohara, K.** and Tenenberg, J. 2007. Observing Sara: a case study of a blind person's interactions with technology. Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility. (Tempe, Arizona, USA). ASSETS '07. ACM, New York, NY, 171-178.

DOI=<http://doi.acm.org/10.1145/1296843.1296873>

## ABSTRACTS AND POSTERS

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Shinohara, K. (2018). Academic Success for Blind Graduate Students in Computing and Information Sciences. Fall Research Reception, Rochester Institute of Technology. Poster Presentation.

Bennett, C. L., **Shinohara, K.**, Blaser, B., Davidson, A., & Steele, K. M. (2016). Using a Design Workshop To Explore Accessible Ideation. In Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility. (Reno, Nevada, USA). ASSETS '16. ACM, New York, NY, 303-304.

DOI=<http://dx.doi.org/10.1145/2982142.2982209>

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

**Shinohara, K.** (2010). Investigating meaning in uses of assistive devices: implications of social and professional contexts. Proceedings of the 12th international ACM SIGACCESS conference on Computers and accessibility. (Orlando, Florida, USA). ASSETS '10. ACM, 319-320. [**ACM Student Research Competition, Second Place Winner**] DOI=<http://doi.acm.org/10.1145/1878803.1878891>

Patel R., **Shinohara K.**, Marshall L., Curioso W. (2009). Approaches to tagging by physicians: a design exploration. AMIA Annual Symposium Proceedings. Nov 2009. 16:977.

Choe, E. K., **Shinohara, K.**, Chilana, P. K., Dixon, M. and Wobbrock, J. O. (2009). Exploring the design of accessible goal crossing desktop widgets. Extended abstracts on Human Factors in computing systems. (Boston, MA, USA). CHI '09. ACM, New York, NY, 3733-3738.

DOI=<http://doi.acm.org/10.1145/1520340.1520563>

**Shinohara, K.** (2006). Designing assistive technology for blind users. In Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility. (Portland, Oregon, USA). ASSETS '06. ACM, New York, NY, 293-294. [**ACM Student Research Competition, Finalist**]

DOI=<http://doi.acm.org/10.1145/1168987.1169062>

## SYMPOSIA AND COLLOQUIA

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AOIR Workshop: Exploring the Shifting Sands: Accounting for Evolution In Analyzing Data from Social Media Platforms, Co-Organizer, (to be held Fall 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

## INVITED TALKS

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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

## COURSES TAUGHT

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### **Instructor, Information Sciences and Technologies, RIT**

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

Usability Testing (HCIN-630), Spring 2018

Foundations of HCI (HCIN-610), Fall 2017

### **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**

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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Jade Myers – GCCIS, Ph.D., RIT, Fall 2018 – present

Shuishi Fang – HCI M.S., RIT, Spring 2017 - present

Nayeri Jacobo – HCI M.S., RIT, Spring 2017 - present

Taylor Gotfrid – HCI M.S., RIT, Fall 2017 - present

Stephen Ramirez – Informatics Capstone Mentor, UW, Spring 2015

Sean Dokko – Internship in Informatics, UW, Spring 2013

## 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., Ft. Lewis, WA, July 2007–Present

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

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

## SERVICE

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ACM CHI Program Committee AC, 2017-present

ACM CHI Reviewer, annually 2008-present

ACM TOCHI Reviewer, 2018

ACM ASSETS Program Committee, Proceedings Chair, 2018

ACM ASSETS Reviewer, 2014, 2015, 2018

AccessComputing Partner, Representative for RIT, Fall 2017-present

Information Sciences and Technologies Poster Committee, Member, 2018

GCCIS PhD Curriculum Committee, Member, Spring 2018

GCCIS Outstanding Scholar Award Committee, Member, Fall 2017

iConference Reviewer, 2010

UW Information School PhD Admissions Committee, Student Member, 2011-2012

UW Information School Doctoral Student Association Chair, 2009-2010

ACM CHI Conference Student Volunteer, 2009, 2010, 2011

Washington Talking Book and Braille Library volunteer, 2009

## SCHOLARSHIPS, MEMBERSHIPS

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

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

University of Puget Sound – President’s Scholarship

University of Puget Sound – Resident Assistant Programmer of the Year