

# Kristen Shinohara

School of Information  
B. Thomas Golisano College of Computing and Information Sciences  
Rochester Institute of Technology  
20 Lomb Memorial Drive, Rochester, NY 14623  
[kristen.shinohara@rit.edu](mailto:kristen.shinohara@rit.edu) | [www.kristenshinohara.com](http://www.kristenshinohara.com)

## 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

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

## FUNDING

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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, Funding total: \$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, Funding total: \$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, Funding Total: \$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, Funding total: \$15,000.

## PUBLICATIONS

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### Peer Reviewed Articles

Paula Conn, Taylor Gotfrid, Qiwen Zhao, Rachel Celestine, Vaishnavi Mande, **Kristen Shinohara**, Stephanie Ludi and Matt Huenerfauth. Just Getting Started: Final-Year Computing-Degree Students’ Accessibility Motivation and Recommendations. ACM Transactions on Computing Education. *To Appear*.

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. *To appear*.

**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>

**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% paper acceptance rate)

**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. 11, 1, Article 6 (March 2018), 31 pages. DOI: <https://doi.org/10.1145/3178855>

**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>

**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.

**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% paper acceptance rate)

**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*, 8, 2, Article 5 (January 2016), 31 pages. DOI: <http://dx.doi.org/10.1145/2827857>

**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% paper acceptance rate) [**Best Paper Winner; top 1% of all submissions**]

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% paper acceptance rate)

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% paper acceptance rate)

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% paper acceptance rate)

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

**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% paper acceptance rate)

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**ABSTRACTS AND POSTERS (peer-reviewed)**

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Rohan Patel, Pedro Breton, Catherine Baker, Yasmine El-Glaly, and **Kristen Shinohara**. 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). ACM, New York, NY, USA. *To Appear*.

Natalie Maus, Dalton Rutledge, Sedeeq Al-Khazraji, Reynold Bailey, Cecilia Ovesdotter Alm, and **Kristen Shinohara**. Gaze-guided Magnification for Individuals. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA '20). CHI Conference on Human Factors in Computing. *To Appear*.

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>

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

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>

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

**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]

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.

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>

**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]

## OTHER PUBLICATIONS

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

## 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, 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**

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**

Natalie Maus, GCCIS REU, Computational Sensing for Human-Centered AI, Summer 2019 (<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/>)

Stephen Ramirez – Informatics Capstone Mentor, UW, Spring 2015

Sean Dokko – Internship in Informatics, UW, Spring 2013

### **Masters Students**

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

Taylor Gotfrid – HCI M.S., RIT, Chair, Graduated Summer 2019, Currently: UW PhD Student in Computer Science and Engineering

Peter Yeung – HCI M.S., RIT, Committee Member, Graduated Spring 2019

Archana Ramesh – HCI M.S., RIT, Committee Member, Graduated Fall 2018

Hui-yu Ho – HCI M.S., RIT, Committee Member, Fall 2019 - present

Archit Jha – HCI M.S., RIT, Committee Member, Spring 2018 – present

Pritishsai Kannon – HCI M.S., RIT, Chair, Fall 2018 – present

Rohan Patel – HCI M.S., RIT, Chair, Fall 2018 – present

Lin Jia – HCI M.S., RIT, Chair, Spring 2019 – present

Anyi Dai – HCI M.S., RIT, Chair, Spring 2019 – present

Rachel Celestine – HCI M.S., RIT, Committee Member, Spring 2019 – present

Ruiwen Fan – HCI M.S., RIT, Committee Member, Spring 2019 – present

Patrick Scully – HCI M.S., RIT, Chair, Spring 2019 – present

### **PhD Students**

Jade Myers – GCCIS, Ph.D., RIT, Advisor, 2018–2019

Larwan Berke – GCCIS, Ph.D., RIT, Committee Member, 2018 – present

Khaled Albusays – GCCIS, Ph.D., RIT, Committee Member, 2018 – present

Matt Seita – GCCIS, Ph.D., RIT, Committee Member, 2018 – present

Oliver Alonzo – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – 2020

John Sohrawardi – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – 2020

Jag Pariti – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – 2020

Akhter Al Amin – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – present

Abraham Glaser – GCCIS, Ph.D., RIT, Pre-Assessment Committee Member, 2019 – present

## INVITED TALKS

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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

## SERVICE

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### **Service to the Profession**

CHI Conference on Human Factors in Computing, Program Committee, Associate Chair, 2017 – present

CHI Diversity Lunch, Table Leader, 2018

CHI Conference on Human Factors in Computing, Reviewer, 2008 – present

Conference on Computers and Accessibility (ASSETS) Doctoral Consortium, Panel Member, 2019

Conference on Computers and Accessibility (ASSETS) Program Committee, Posters Co-Chair (with Martez Mott, MSR), 2019

Conference on Computers and Accessibility (ASSETS) Session Chair, 2018



Conference on Computers and Accessibility (ASSETS) Program Committee, Proceedings Chair, 2018

Conference on Computers and Accessibility (ASSETS) Reviewer, 2014, 2015, 2018 – present

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

Transactions on Accessible Computing (TACCESS), ASSETS 2019 Special Issue Guest Co-Editor (with Foad Hamidi, UMBC), 2020

Transactions on Accessible Computing (TACCESS), Reviewer, 2018, 2019

International Journal of Human-Computer Studies, Reviewer, 2018

Studies in Higher Education, Reviewer, 2018

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

AccessComputing Partner, Representative for RIT, Fall 2017 – present

TeachAccess, Representative for RIT, Spring 2019 – present

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

iConference Reviewer, 2010

ACM CHI Conference Student Volunteer, 2009, 2010, 2011

Washington Talking Book and Braille Library volunteer, 2009

### **Service to the College/University**

RIT Sponsored Research Services Internal Review Panel Member, Fall 2019

HCI Colloquium Lead, 2018 - Initiated the first 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 – Coordinate poster templates and arrangement to organize hall way presentation space.

GCCIS Research Experiences for Undergraduates (REU) Mentor, Computational Sensing for Human-Centered AI, <https://www.cs.rit.edu/~reu/>, Summer 2019

GCCIS PhD Curriculum Committee, Member, Spring 2018

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

Information Sciences and Technologies Department Student Orientation Activities: participated in undergraduate Passport Activity, Meet & Greet with Professors, 2017

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

UW Information School Doctoral Student Association, Chair, 2009 – 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>

## SYMPOSIA AND COLLOQUIA

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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.

AOIR Workshop: Exploring the Shifting Sands: Accounting for Evolution In Analyzing Data from Social Media Platforms, Co-Organizer, Fall 2018 <https://aoir.org/aoir2018/preconfwrkshop/#ESS>

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

## PROFESSIONAL EXPERIENCE

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

- Tara Coffin, Henry Lyle, Kristen Shinohara & 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/>

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

## AWARDS AND SCHOLARSHIPS

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

Harlan Hahn Award Recipient, 2016

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

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, 2010

NSF Graduate Research Fellowship, Honorable Mention, 2009

University of Puget Sound – President’s Scholarship

University of Puget Sound – Resident Assistant Programmer of the Year

## 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