

# Emily Q. Wang

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## Education

- Northwestern University** **Expected: Spring 2022**  
Ph.D., Technology and Social Behavior (joint Computer Science and Communication Studies)  
Committee: Anne Marie Piper (chair), Marcelo Worsley, Michael Horn, Kathryn Ringland, Sara Hendren  
Dissertation: Reimagining Neurodiverse Academies: A Case Analysis and Co-Design with Dyslexic Adults
- Northwestern University** **Summer 2021**  
M.Sc., Technology and Social Behavior (joint Computer Science and Communication Studies)
- Olin College of Engineering** **Spring 2016**  
B.S., Engineering with a Concentration in Computing  
Self-designed major with computer science, electrical engineering, human-centered design, and psychology
- University of Edinburgh** **Spring 2015**  
Visiting student at School of Informatics

## Teaching and Mentoring

### Professional Development

**Teaching Certificate Program.** (Searle Center for Advancing Teaching & Learning) *Fall 2020 - Spring 2021*  
Engaged in a year-long progression of workshops, projects, & mentoring focused on teaching and learning. Developed a new course for teaching engineers about disability justice frameworks and accessible technology design.

### Teaching Assistant

- Inclusive Making.** (Curriculum Developer and Teaching Assistant for Professor Marcelo Worsley) *Winter 2021*  
Co-developed online edition of interdisciplinary seminar course about disability, technology, and the Maker Movement in Computer Science (COMP\_SCI 397) and Learning Sciences (LRN\_SCI 309) at Northwestern University.
- Computer Architecture.** (Teaching Assistant for Adjunct Instructor Eric Van Wyk) *Fall 2014*  
Facilitated office hours and helped develop curriculum for project-based course (ENGR 3410) at Olin College.
- Design Nature.** (Teaching Assistant for Professor Benjamin Linder) *Fall 2013*  
Provided support for bioinspired design projects and rapid prototyping activities (ENGR 1200) at Olin College.

### Research Mentor

- Lily Barghi*, Master's student in Computer Science at Northwestern. *Spring 2019 - Winter 2019*  
Now a software engineer at AT&T.
- Rochelle Compendio*, Undergraduate student in Computer Science at Northwestern. *Summer 2018*  
Now a software engineer at Expedia Group.
- Emma McDonnell*, Undergraduate student in Computer Science at Northwestern. *Spring 2017 - Summer 2017*  
Now a PhD student in Human-Centered Design and Engineering at the University of Washington.
- Molly Van Gorp*, Student at New Trier Township High School. *Fall 2016 - Winter 2017*  
Now an undergraduate student at the University of Chicago.

## Workshop Instructor

**Social Web Programming.** (Co-instructor with Scott Allen Cambo) Fall 2017  
Co-lectured and facilitated programming activities for undergraduate social science majors in Computing Everywhere (COMM\_ST 159) at Northwestern University.

**Introduction to Hardware in Our Everyday Lives.** (Co-instructor with Amanda Lazar) Spring 2017  
Lectured and facilitated Arduino programming activities for undergraduate social science majors in Computing Everywhere (COMM\_ST 159) at Northwestern University.

## Guest Speaker

**Human-Computer Interaction.** (Expert panelist for Graduate Student Instructor Jessica Feuston) Winter 2019  
Spoke about accessibility research in HCI and gave feedback on student projects during UX Design and Research Panel in CIS 330 at Northwestern University.

## Publications

**Emily Q. Wang** and Anne Marie Piper. (To appear in 2022). The Invisible Labor of Access in Academic Writing Practices: A Case Analysis with Dyslexic Adults.

Kit Martin, **Emily Q. Wang**, Connor Bain, and Marcelo Worsley. 2019. Computationally Augmented Ethnography: Emotion Tracking and Learning in Museum Games. In *Advances in Quantitative Ethnography (Communications in Computer and Information Science)*: 141–153. [https://doi.org/10.1007/978-3-030-33232-7\\_12](https://doi.org/10.1007/978-3-030-33232-7_12)

Honorable Mention for Best Student Paper Award

Kit Martin, **Emily Q. Wang**, Connor Bain, and Marcelo Worsley. 2019. Analyzing Affective States Alongside Qualitative Analysis. *Companion Proceedings for the 9th International Conference on Learning Analytics & Knowledge (LAK19)*.

**Emily Q. Wang** and Anne Marie Piper. 2018. Accessibility in Action: Co-Located Collaboration among Deaf and Hearing Professionals. *Proceedings of the ACM on Human-Computer Interaction 2, CSCW*: 180:1-180:25. <https://doi.org/10.1145/3274449>

## Conferences and Invited Presentations

*Paths of Allyship: Communication Preferences and Adapting Qualitative Research Methods with Disabled Bodyminds.* Co-authored with Kathryn E. Ringland. Position paper for Nothing About Us Without Us: Investigating the Role of Critical Disability Studies in HCI at the ACM CHI Conference on Human Factors in Computing Systems (CHI) 2020 (Cancelled due to COVID-19 pandemic).

*Investigating Accessibility in the Writing Process with Dyslexic Adults.* Doctoral Consortium at the ACM Conference on Computers and Accessibility (ASSETS) 2019 Conference. October 26-30, 2019.

*Investigating Accessibility in the Writing Process with Dyslexic Adults.* Presentation at the University of Chicago Disability Studies Workshop. November 13, 2019.

*Co-located Collaborative Accessibility.* Workshop presentation and prototype demonstration at Enabling and Understanding Embodied STEM Learning Workshop at the Computer Supported Cooperative Learning (CSCL) 2017 Research Conference. June 18, 2017.

*Co-located Collaborative Accessibility in Deaf and Hearing Teams.* Presentation at the University of Chicago Disability Studies Workshop. May 19, 2017.

*Open Style Lab.* Presentation at the Boston Museum of Science. October 24, 2015.

*Open Style Lab Final Showcase.* Presentations and demos at the MIT Museum. August 15, 2015.

## Fellowships and Grants

**National Science Foundation Graduate Research Fellow** *Fall 2016 - Present*  
 [\$34,000 per year] Support for 3 years of annual stipend and tuition and freedom to conduct independent research at any accredited U.S. institution graduate education program.

**SIGACCESS Diversity & Inclusion Scholarship** *Fall 2020*  
 [\$50] Competitive grant for associated costs of attending the virtual 2020 ACM Conference on Computers and Accessibility (ASSETS '20).

**Northwestern University Graduate Research Grant** *Spring 2019 - Spring 2020*  
 [\$3000] Competitive grant to support research on the accessibility of writing tools with dyslexic adults.

**ASSETS Doctoral Consortium Support Grant** *Fall 2019*  
 [\$550] Competitive grant for associated costs of participating in the 2019 ACM Conference on Computers and Accessibility (ASSETS '19).

**Grace Hopper Celebration Scholarship Grant** *Fall 2016*  
 [\$1000] Competitive grant for associated costs of attending the Grace Hopper Celebration.

**Clare Boothe Luce Research Fellow** *Summer 2014 - Spring 2015*  
 [\$4000] Competitive fellowship for undergraduate research experience at Olin College Machine Learning & Crowdsourcing Lab.

## Service

### Academic Reviewing & Conference Organizing

**Peer Reviewer** *2017 - Present*  
 ACM CSCW 2021 Full Papers  
 ACM CHI 2021 Full Papers  
 ACM CSCW 2020 Full Papers —Recognition for Outstanding Reviews  
 ACM CHI 2020 Late-Breaking Work  
 ACM CHI 2020 Full Papers  
 InfoSocial 2017

**Conference Organizing Committee Member** *2016 - 2019*  
 PyCon 2019, Accessibility Chair  
 PyCon 2018, Accessibility Chair  
 PyCon 2017, Accessibility Chair  
 InfoSocial 2017, Accessibility Chair

### Academic Cross-Department & Student Communities

**Interdisciplinary Disability Writing Group Co-Lead** *Summer 2020 - Present*

**Online Community Admin for Technology & Social Behavior PhD Student Slack** *Fall 2016 - Present*

**Northwestern Cross-Department HCI Event Planning Co-lead** *Fall 2017 - Fall 2020*

### Community Engagement

**Brave Space Alliance Accessibility Consultant** *Spring 2021 - Summer 2021*  
 Collaborated with Director of Communications to develop guides for accessible social media practices and explore the intersections of disability, queerness, and race.

**Adaptive Climbing Group Volunteer** *Summer 2018 - Present (paused during pandemic)*  
 Volunteered as a belayer and side climber at weekly meetups for rock climbers with disabilities.

**CD2BIT (Chicago Deaf and DeafBlind in Tech) Collaborator at Chi Hack Night** *Spring 2017 - Fall 2018*  
 Participated in design and development of accessible technology with the local Deaf community.

**BraveCamps Design and Coding Coach**

*Summer 2017*

Facilitated design and programming activities for middle school girls in a summer camp curriculum about computing, human-centered design, and leadership.

**Open Style Lab Engineering Fellow**

*Summer 2015 - Fall 2015*

Participated in design program to co-create assistive apparel in collaboration with fashion designers, occupational therapists, and people with disabilities.