

# Meredith Moore

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## Curriculum Vitae

### Education

- 2015–May 2020 **Doctorate of Philosophy**, *Arizona State University*, Tempe, AZ, *GPA : 3.90*.  
2020 **Computer Science**: Human-Computer Interaction, Accessibility, Machine Learning, Artificial Intelligence
- 2011–2015 **Bachelors of Science**, *Drake University*, Des Moines, IA, *GPA : 3.70*.  
Neuroscience and Computer Science

### Awards and Achievements

#### Fellowships

- 2015-2019 **National Science Foundation Graduate Research Fellow**, *Computer and Information Science Engineering*, Human Computer Interaction.
- 2015-2018 **National Science Foundation Integrated Graduate Education Research Traineeship Associate**, *Alliance for Person Centered Accessible Technologies (APAcT)*, Arizona State University.
- 2015-2020 **Arizona State University Dean's Fellow**, Arizona State University.

#### Grants and Scholarships

- 2019 **Graduate School Professional Association Travel Grant Recipient**, Arizona State University, \$850.  
To travel to Interspeech 2019 in Graz, Austria
- 2019 **Grace Hopper Celebration Scholarship Recipient**, \$2000, GoDaddy.
- 2018 **Graduate School Professional Association Travel Grant Recipient**, Arizona State University, \$850.  
To travel to Interspeech 2018 in Hyderabad, India
- 2017 **Women in Machine Learning Travel Grant Recipient**, \$300, Neural Information Processing Systems.
- 2016 **ACM ASSETS Doctoral Consortium Participant Scholarship Recipient**, \$2000.
- 2015-2017 **Grace Hopper Celebration Scholarship Recipient**, (3) \$1500 scholarships, Arizona State University.

#### Other Awards

- 2016-2018 **Integrated Graduate Education Research Traineeship (IGERT) Student Leader**, *Alliance for Person Centered Accessible Technologies (APAcT)*, Arizona State University.

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- 2014 **Outstanding Computer Science Student of the Year**, *College of Arts and Sciences*, Drake University.
- 2013 **Outstanding Neuroscience Student of the Year**, *College of Arts and Sciences*, Drake University.

## Publications

### Conference Presentations

- 2019 **M. Moore**, C.D. Heath, T. McDaniel, S. Panchanathan. "*The Blind Date: Improving the Accessibility of Mobile Dating Platforms for Individuals with Visual Impairments*". IEEE GlobalSIP Symposium on Signal and Information Processing for Person-centered and Citizen-centered Smart Living. 2019, Ottawa, Canada. Nov 14.
- 2019 **M. Moore**, M. Saxon, T. McDaniel, V. Berisha S. Panchanathan. "*The Blind Date: Improving the Accessibility of Mobile Dating Platforms for Individuals with Visual Impairments*". IEEE GlobalSIP Symposium on Signal and Information Processing for Person-centered and Citizen-centered Smart Living. 2019, Ottawa, Canada. Nov 14.
- 2018 **M. Moore**, T. McDaniel, S. Panchanathan. "*Evaluating the Need for Voice-Assistive Technologies*". Workshop on Speech Processing for Voice Disorders (WSPD), Mysore, India. Sept 8-9, 2018.
- 2018 **M. Moore**, H. Venkateswara, S. Panchanathan. "*Whistle blowing ASRs: evaluating the need for more inclusive speech recognition systems*". Interspeech 2018, Hyderabad, India. Sept 2-6, 2018.
- 2018 **M. Moore** "*Designing Voice-Assistive Technologies: Enhancing the Intelligibility and Quality of Pathological Speech*". Interspeech Doctoral Consortium 2018, Hyderabad, India. Sept 1, 2018.
- 2018 **M. Moore**. "*Evaluating the Needs of Individuals with Spasmodic Dysphonia for the Design of Voice-Assistive Technologies*", National Spasmodic Dysphonia Association 2018 National Symposium
- 2018 K. Glattke, B. Fakhri, C. Heath, **M. Moore**, and M. Rahimi. *Design of an Enhanced Disc Golf Game to Facilitate Players with Visual Impairments*, Conference on Applied Human Factors and Ergonomics (AHFE) 2018. Orlando, Florida.
- 2016 **M. Moore**. "TranslatAble: Giving Individuals with Complex Communication Needs a Voice through Speech and Gesture Recognition". ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '16) Doctoral Consortium Participant, Reno, NV, 2016.

### Book Chapters

- 2018 S. Panchanathan, **M. Moore**, H. Venkateswara, S. Chakraborty, T. McDaniel. "*Computer Vision for Augmentative Alternative Communication*." Computer Vision for Assistive Healthcare. p. 211-248. Elsevier. 2018
- 2018 K. Glattke, B. Fakhri, C. Heath, **M. Moore**, and M. Rahimi. *Design of an Enhanced Disc Golf Game to Facilitate Players with Visual Impairments*, International Conference on Applied Human Factors and Ergonomics, 328-335

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## Posters

- 2017 **M.Moore**, H. Venkateswara, S. Panchanathan. "A Reinforcement Learning System for Dysarthric Speech Enhancement". Women in Machine Learning Workshop. Neural Information Processing Systems (NIPS) 2017, Long Beach, CA
- 2016 **M.Moore**, S. Panchanathan. "TranslatAble: Giving Individuals with Complex Communication Needs a Voice through Speech and Gesture Recognition". ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '16), Reno, NV, 2016.

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## Teaching Experience

### Guest Lectures

- 2017 **Guest Lecturer** for Arizona State University's Deep Learning for Visual Computing "Generative Models of Audio"
- 2017 **Guest Lecturer** for Arizona State University's Assistive Technologies Course "Computer Vision for Augmentative Alternative Communication"

### Coursework

- 2017 **Technologies for Online Learning Communities**: in this discussion and project based course, my project focused on building accessible discussion boards for students with visual and mobility disorders to aid in the accessibility of online learning communities.

### Volunteering

- 2017-2019 **DiscoverROOM Expert**: Once or twice a semester, I have gone to Kyrene Elementary school and teach three 20-minute sessions meant to engage elementary school students in STEM activities.
- 2016 **Girl Scout Coding Counselor** I co-taught a Girl Scout coding course that met once a week for 6 weeks in the summer. We used Kahn Academy's Intro to JS: Drawing and Animation to demonstrate some of the fundamental principles of computer science in an engaging way.

### Mentoring

- 2018 **CUBiC Research Mentor** I took on two students in summer 2018 as mentees. Shenyi Li worked on a project using machine learning to predict the intelligibility of voice disorder speech. Shenyi is currently applying to Ph.D. programs to continue this work. Ayesha Raman is a high school student who worked with me to develop a GUI to collect speech samples.
- 2017-2018 **Fulton Undergraduate Research Initiative (FURI) Mentor** to Amber Bennett an ASU undergraduate student. We proposed a project to help individuals with Autism communicate more clearly using gestural interfaces and were successful in obtaining funding for Amber to work on the project.
- 2016 **Cubic Summer Research Mentor**: I mentored an undergraduate student from Dartmouth, Eloise Dietz. Eloise and I worked together on a project that used gestural interfaces for communication.

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## Work Experience

5/2019-now **UX Researcher at GoDaddy**

Description After a successful internship in 2019, I joined GoDaddy's research team as a part-time UX Researcher who is responsible for designing and running usability experiments, and analyzing and reporting out the result to product stakeholders to help them make decisions about how to improve the usability of the product.

2015-now **Research Assistant in Center for Cognitive Ubiquitous Computing**

Supervisor Dr. Sethuraman Panchanathan

Description For the duration of my Ph.D. I have been funded as a Research Assistant for the Center for Cognitive Ubiquitous Computing (CUbiC).

## Internships

Summer 2019 **UX Research Intern at GoDaddy**

Supervisor Cassie Mally

Description At GoDaddy I collaborated with product stakeholders to design, run, analyze and report out the results of User Experience Research with the goal of improving the usability of the product.

Summer 2014 **Research Intern at the Rehabilitation Institute of Chicago** (now ShirleyRyan Ability Lab)

Supervisor Dr. William 'Zev' Rhymer

Description Using a depth camera and **Unity**, I developed a video game for upper extremity rehabilitation post-stroke.

Summer 2013 **Research Intern University of California, Berkeley Research Experience for Undergraduates**

Supervisors Dr. Jose Carmena and Dr. Helene Moorman

Description I reconstructed arm-positions from a motion-capture system to model upper extremity movement to eventually be correlated with neural recordings.

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## Service

2020 Interspeech Student Action Committee Member

2019 Interspeech Volunteer

2018 Workshop on Speech Processing for Voice Disorders Oral Presentation Chair

2018 IEEE International Conference on Image Processing 2018 (ICIP) Reviewer

2017 Neural Information Processing Systems Volunteer

2013-2015 Founder and President of Drake University's Women in Mathematics and Computer Science

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## Miscellaneous

2015-2019 Grace Hopper Attendee 2015, 2016, 2017, and 2019

2018 Accessibility Internet Rally (OpenAIR) participant, Knowbility.org

2016 AZ Hack Hackathon Participant

2012-2015 Division I athlete for Drake University's Women's Volleyball Program

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