

Meredith Moore, Ph.D.

Curriculum Vitae

Education

- 2015–May 2020 **Doctorate of Philosophy**, *Arizona State University*, Tempe, AZ, *GPA : 3.90*.
Computer Science: Human-Computer Interaction, Accessibility, Machine Learning, Artificial Intelligence
Dissertation: "I'm having trouble understanding you right now": A Multidimensional Analysis of the Intelligibility of Dysphonic Speech
- 2011–2015 **Bachelors of Science**, *Drake University*, Des Moines, IA, *GPA : 3.70*.
Neuroscience and Computer Science

Work Experience

- 2020 - now **Assistant Professor of Computer Science**
Institution *Drake University*, Des Moines, IA
Description [3 years of experience]
- Taught courses covering **Introduction to Computer Science**, **Machine Learning**, **Human-Computer Interaction**, the **Computer Science Capstone** and **Independent Studies**.
 - Pursued impactful service commitments to **broaden the participation** of historically underrepresented groups in computing.
 - Utilized cutting-edge **pedagogical research** to implement strategies to ensure **equitable participation**.
 - Led **undergraduate research groups** involving 20+ students in projects centered around Human Centered Machine Learning.
 - Served as an **academic advisor** for 30+ students a semester
 - **Mentored undergraduate students** who are part of historically underrepresented groups
- 2019-2020 **UX Researcher II at GoDaddy**
Description [1+ years of experience]
- Collaborated with interdisciplinary stakeholders to understand the research need—PMs, PMMs, UX Designers, Business Intelligence, etc.
 - Designed a wide variety of qualitative and quantitative studies to answer research questions.
 - Synthesized compelling and creative insights for multiple products.
 - Communicated findings to a variety of audiences, from small teams to executives.

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2015-2020 **Research Assistant in Center for Cognitive Ubiquitous Computing**

Supervisor Dr. Sethuraman Panchanathan

Description [5 years Exp.]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 Designed studies to generate insights into how GoDaddy customers use our products. Interacted with 2081 customers on 4 different products.

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.

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

2023 **SLAY Fund Grant for Inclusive Scholars of Digital Proficiency**, \$7805.

2022 **NSF Broadening Participation in Computing Workshop Travel Funding**, \$1100.

2022 **SLAY Fund Grant for Inclusive Scholars of Digital Proficiency**, \$7805.

2022 **Teach Access Curriculum Development Grant**, \$5000.

2021 **Teach Access Curriculum Development Grant**, \$5000.

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.

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- 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.
- 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

- 2022 **M. Moore** and T. Urness "*Strategies for Equitable Participation in an Introductory Computer Science Course*". CCSC Midwest Regional Computer Science Conference 2022. University of Wisconsin, Menomonie. October 6-8, 2022.
- 2020 **M. Moore**, P. Papreja, and M. Saxon, V. Berisha and Se. Panchanathan "*UncommonVoice: A Crowdsourced Dataset of Dysphonic Speech*". Proc. Interspeech 2020. Shanghai, China (attended virtually). October 25-29. [[paper](#) | [presentation](#)]
- 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. [[paper](#) | [blog](#)]
- 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. [[paper](#)]
- 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

- 2021 **M. Moore.** (2021) Speech Recognition for Individuals with Voice Disorders. *Multimedia for Accessible Human Computer Interfaces*. Springer Publishing. *Book Chapter to be published early 2021.*
- 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

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.

Media Appearances

- 2022 **M. Moore.** "How Universities Can Recruit and Retain Diversity in Tech Fields". EdTech Magazine. August 2nd, 2022. [[article](#)]
- 2021 "The Ones Educating for a Digital World". Drake Digital Proficiency Program | The Ones Campaign. [[article](#)]

Teaching Experience

College Courses

- 2022 **Instructor** CS65: Introduction to Computer Science *Drake University Fall 2022*
- Instructor** CS120: Human Computer Interaction *Drake University Fall 2022*
- Instructor** STEM280: Introduction to Computer Science for Teachers (in-service) *Drake University Summer 2022*

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Instructor CS65: Introduction to Computer Science (two sections) *Drake University Spring 2022*

Instructor CS191: Computer Science Capstone *Drake University Spring 2022*

2021 **Instructor** CS167: Machine Learning (two sections) *Drake University Fall 2021*

Instructor CS195: Human Computer Interaction *Drake University Fall 2021*

Instructor CS167: Machine Learning (two sections) *Drake University Spring 2021*

2020 **Instructor** CS195: Human Computer Interaction *Drake University Fall 2020*

Instructor CS167: Machine Learning *Drake University Fall 2020*

Camps and Workshops

Instructor Content Equity: Tips and Tricks to Employ Universal Design to Make Your Classroom Accessible *Drake University Professional Development Workshop Summer 2022*

Guest Lectures

2022 **Guest Lecturer** for Drake University's Introduction to Artificial Intelligence Class "*Artificial Intelligence for Good*"

2021 **Guest Lecturer** for Drake University's Introduction to Artificial Intelligence Class "*Artificial Intelligence for Good*"

2020 **Guest Lecturer** for Drake University's Introduction to Artificial Intelligence Class "*Artificial Intelligence for Good*"

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.

Service

- 2022 Co-Director of the Inclusive Scholars of Digital Proficiency Scholarship Program
Drake University Crew Scholars Mentor
Women in STEM Faculty Mentor
Neurodivergent Club Faculty Mentor
The CodeAbility Podcast Host
- 2021 Drake University Women and Gender Studies Steering Committee Member
Women in STEM faculty mentor
Drake Digital Proficiency Program Faculty Work Group
Women and Gender Studies Steering Committee Member
NSF Reviewer
- 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

Miscellaneous

- 2015-2019 Grace Hopper Attendee 2015, 2016, 2017, 2019, 2021, 2022
- 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