

MEREDITH MOORE

Assistant Professor of Computer Science

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EXPERIENCE

Assistant Professor of Computer Science

Drake University

August 2020 – present

Des Moines, IA

- I returned to my Alma Mater as an assistant professor focusing on teaching **Machine Learning, Human Computer Interaction, and Interdisciplinary Artificial Intelligence.**

UX Researcher

GoDaddy

June 2019 – August 2020

Tempe, AZ

- UX Researcher II [April 2020 – August 2020]:** I transitioned to FTE and supported an entire organization responsible for 15 different products within GoDaddy.
- UX Researcher I [August 2019 – April 2020]:** Converted from internship to a part-time researcher position supporting Productivity Products at GoDaddy.
- UX Research Intern [June 2019 – August 2019]:** Designed studies to generate insights into how GoDaddy customers use our products. Interacted with 2081 customers on 4 different products.

Graduate Research Assistant, Ph.D. Student

Arizona State University, Dr. Sethuraman Panchanathan

August 2015 – May 2020

Tempe, AZ

- Dissertation: "I'm Having Trouble Understanding You Right Now": A Multi-Dimensional Evaluation of the Intelligibility of Dysphonic Speech**

PROJECTS

The Blind Date: Improving the Accessibility of Online Dating

Automatic image captioning to improve accessibility of mobile dating platforms. [[blog](#) | [paper](#)]

Evaluating the Needs of Individuals with Voice Disorders

I surveyed 471 individuals with voice disorders on how their voice disorder affects their life. Using this data as a guide, we are developing new voice-assistive tech. [[blog](#)]

Estimating the Intelligibility of Speech

Predicted the intelligibility of speech in terms of how well an automatic speech recognition system would perform on a speech sample. [[paper](#)]

Enhanced Disc Golf for Players who are Blind

Worked on an interdisciplinary team of researchers to design a system that makes disc golf accessible to players who are blind. The disc emits audio cues relaying where the target is to the player. [[paper](#)]

EDUCATION

Ph.D. in Computer Science

Arizona State University (GPA: 3.90)

Aug 2015 - May 2020

Tempe, AZ

Thesis title: Improving the Intelligibility of Speech from Individuals with Voice Disorders

HCI

Accessibility

Machine Learning

B.Sc. in CS and Neuroscience

Drake University

Sept 2011 - May 2015

Des Moines, IA

Computer Science

Neuroscience

RESEARCH INTERESTS

Machine Learning

Human-centered AI

Accessibility

HCI

Speech Processing

Assistive Technology

MOST PROUD OF



NSF Graduate Research Fellow

\$192,000 fellowship recognizing outstanding graduate students



Division 1 Volleyball

Student athlete at Drake University



Women in Computer Science and Math

Founder, former president, and now mentor of Drake's women in CS group



Aussie and Friends Foster

I foster and train Australian shepherd rescue dogs

SKILLS

Machine Learning



Python

Tensorflow

PyTorch

Java

C++

Data Science

Human-Computer Interaction



Usability Testing

Quantitative Research

Qualitative Research

Axure

Need-Finding

Surveys

Focus Groups

Product Management



Interdisciplinary

Collaboration

Research

Impact Driven

Data Analysis

Market Research

Data Driven Decisions

PUBLICATIONS

Book Chapters

- Moore, Meredith and Michael Saxon (2021, *forthcoming*). *Speech Recognition for Individuals with Voice Disorders*.
- Glattke, Kaycee et al. (2019). *Design of an Enhanced Disc Golf Game to Facilitate Players with Visual Impairments*.
- Panchanathan, Sethuraman et al. (2018). *Computer Vision for Augmentative and Alternative Communication*. Elsevier, pp. 211–248.

Conference Proceedings

- Moore, Meredith, Piyush Papreja, et al. (2020). “UncommonVoice: A Crowdsourced Dataset of Dysphonic Speech”. In: *Proc. of Interspeech, 2020*.
- Moore, Meredith, Corey Heath, et al. (2019). “The Blind Date: Improving the Accessibility of Mobile Dating Platforms for Individuals with Visual Impairments”. In: *Global SIP 2019 - Proceedings of the 7th Global conference on Signal and Information Processing*. Institute of Electrical and Electronic Engineers.
- Moore, Meredith, Michael Saxon, et al. (2019). “Say What? A dataset for exploring the error patterns that two ASR engines make”. In: *Proc. of Interspeech, 2019*.
- Moore, Meredith, Hemanth Venkateswara, and Sethuraman Panchanathan (2018). “Whistle-blowing ASRs: Evaluating the Need for More Inclusive Speech Recognition Systems”. In: *Proc. Interspeech 2018*, pp. 466–470.
- Moore, Meredith and Sethuraman Panchanathan (2016). “TranslatAble: Giving individuals with complex communication needs a voice through speech and gesture recognition”. English (US). in: *ASSETS 2016 - Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility*. Association for Computing Machinery, Inc, pp. 321–322. DOI: [10.1145/2982142.2982197](https://doi.org/10.1145/2982142.2982197).

REFERENCES

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