MEREDITH MOORE, PH.D.

Assistant Professor of Computer Science

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EXPERIENCE

Assistant Professor of Computer Science
Drake University

📅 August 2020 – present [4 years]   📍 Des Moines, IA

- Taught courses covering **Introduction to Computer Science**, **Machine Learning**, **Human-Computer Interaction**, and **Interdisciplinary Perspectives on Artificial Intelligence**
- 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– Inclusive ASL dataset, Measuring Focus for ADHD using Brain-Computer Interfaces, etc.
- Served as an **academic advisor** for 60+ students a semester
- Built a **scholarship program** to support students who are part of a **historically underrepresented group** in tech. [ISDP]

UX Researcher
GoDaddy

📅 June 2019 – August 2020 [1 + years]   📍 Tempe, AZ

- **UX Researcher II** *[April 2020 – August 2020]*: I transitioned to FTE and Synthesized insights for an entire organization responsible for 15 different products within GoDaddy–specifically GoDaddy Pro.
  - Collaborated with **interdisciplinary stakeholders** to understand the research need–PMs, PMMs, UX Designers, Business Intelligence, etc.
  - Implemented **diverse research methodologies** including usability testing, surveys, and contextual inquiry to **capture user behaviors and preferences**.
  - **Identified pain points** and opportunities through **user journey mapping**, contributing to enhanced user experiences and product innovation.
  - Effectively communicated research findings to broad audiences–from immediate stakeholders to executives.
  - Advocated for and implemented inclusive research practices to ensure diverse user representation and accessibility considerations.
- **UX Researcher I** *[August 2019 – April 2020]*: Converted from internship to a part-time researcher position supporting all 5 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 | | Accessible Disc Golf Voice Disorder Need-Finding | Estimating Intelligibility of Voice Disorder Speech | Equitable Participation

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 Computer Science 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   a11y   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 faculty mentor of Drake's women in CS.

SKILLS

Machine Learning   ●●●●●

Python   Tensorflow   Scikit Learn   Keras   Pandas   Numpy   R   Deep Learning   NLP   PyTorch   Java   C++   Data Science

User Experience Research   ●●●●●

Usability Testing   Need-Finding   Surveys   User Journey Mapping   User Interviews   Research Prioritization   Focus Groups   Quantitative Research   Qualitative Research   Axure   Inclusive Research Practices   Figma

SELECTED PUBLICATIONS

📕 Book Chapters

- Moore, Meredith (2021). *Speech Recognition for Individuals with Voice Disorders*. Ed. by Troy McDaniel and Xueliang Liu. Cham: Springer International Publishing, pp. 115–144.
- 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.

📄 Journal Articles

- Moore, Meredith and Timothy Urness (2022). "Strategies for Equitable Participation in an Introductory Computer Science Course". In: *Journal of Computing Sciences in Colleges* 38.4, pp. 48–57.

👥 Conference Proceedings

- Moore, Meredith, Piyush Papreja, et al. (2020). "UncommonVoice: A Crowdsourced Dataset of Dysphonic Speech". In: *Proc. Interspeech 2020*, pp. 2532–2536.
- 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.

REFERENCES

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