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Brianna Wimer

EDUCATION

University of Notre Dame, South Bend, IN   August 2021 - PRESENT
      Ph.D. in Computer Science and Engineering
      Advised by Ronald Metoyer

University of Alabama, Tuscaloosa, AL   July 2018 - July 2021
      B.S in Computer Science

INTERESTS

My research is situated at the intersection of Human-Computer Interaction and Accessibility, with a keen focus on enhancing data visualization techniques for individuals with visual impairments. I am committed to devising inclusive technologies that bridge the gap between information-rich visualizations and screen-reader accessibility. My current endeavors explore the potential of translating visual cues in interactive storytelling into multimodal experiences that are comprehensible and engaging for screen-reader users.

PUBLICATIONS

Dillahunt, T., Sawwan, M., Wood, D., **Wimer, B.,** Conrado, A., Eicher-Miller, H., Zornig Gora, A., Metoyer, R. *Understanding Food Planning Strategies of Food Insecure Populations: Implications for Food Agentic Technologies.* Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems. 2023.

AWARDS & ACHIEVEMENTS

Google Ph.D. Fellowship, Google | 2023
IEEE VIS Inclusivity & Diversity Scholarship, IEEE VIS | 2023
Graduate Cohort for IDEALS Travel Grant, Computing Research Association | 2023
SIGACCESS Travel Scholarship, ACM SIGACCESS | 2022
Graduate Cohort for IDEALS Travel Grant, Computing Research Association | 2022
Jack and Mary Ann Remick Fellowship, University of Notre Dame | 2021
Louis Stokes Alliance for Minority Participation Scholar, University of Alabama | 2018 -2021
Dean's List, The University of Alabama | 2021, 2020
Tapia Travel Grant, AccessComputing | 2020
Grace Hopper Travel Grant, AccessComputing | 2020

POSTER PRESENTATIONS

Wimer, B. *Understanding How Information Visualization Can Support Diverse Cognitive Abilities.*
Poster Presented At: ACM Conference on Computers and Accessibility. 2022 Oct 24-26. Athens,
Greece. (Not peer-reviewed, poster presentation for SIGACCESS Travel Scholarship).

Wimer, B., Szymanski, A. Food Information Networks (FINs): The Visual Representation of Food
Information for Healthy Dietary Choices. Poster Presented At: Lucy Institute Fall Symposium. 2021
Oct 27. University of Notre Dame.

Wimer, B. *Improving Self-Efficacy in Emotion Regulation Through a Biofeedback Video Game.*
Poster Presented At: Virtual Grace Hopper Celebration. 2020 Sept 29-Oct 3. Remote

OTHER RESEARCH EXPERIENCE

CRA-WP Distributed Research for Undergraduates (DREU)   Summer 2021
Research Intern, University of Notre Dame; Advised by Ronald Metoyer

CRA-WP Distributed Research for Undergraduates (DREU)   Summer 2020
Research Intern, Tufts University; Advised by Elaine Short

Undergraduate Research Assistant, The University of Alabama   2019 to 2021
Advisor: Chris Crawford

TEACHING EXPERIENCE

University of Notre Dame
2023   **Warrior-Scholar Project Camp For Veterans and Active Duty Service Members**
              Role: Instructor / Research Project Leader

2022   **Fundamentals of Computing (CSE20311)**
              61 Undergraduate students enrolled. Role: Graduate Teaching Assistant

2021   **Academic Services for Student Athletes**
              2 Undergraduate students assigned to me. Role: Strategy Tutor

2021   **Academic Services for Student Athletes**
              12 Undergraduate students assigned to me. Role: Calculus Tutor

INVITED TALKS

2021   **Panelist,** Code.Org x CareerVillage

              Panelist, Explore STEM@UTSA

2020   **Guest Speaker,** Louis Stokes Alliance for Minority Participation
              Guest Speaker, Bridge to Engineering Success at Tufts Webinar

ACADEMIC SERVICE

Professional Service

2022   **Student Volunteer,** ACM Conference on Human Factors in Computing (CHI)
           Student Volunteer, ACM Conference on Designing Interactive Systems (DIS)
           Student Volunteer, ACM Conference on Computers and Accessibility (ASSETS)

University and Community Service

2023   **Summer Program Co-Director,** ND CSE Summer Enrichment Program
           Counselor/Mentor, UA's LEGACY Project
2022   **Graduate Research Mentor,** ND's Center for Civic Innovation Interns
           Graduate Research Mentor, ND's iTREDS Program
2020   **Research Mentor,** UA's Louis Stokes Alliance for Minority Participation
2019   **Counselor/Mentor,** UA's LEGACY Project
           Counselor, UA's NeuroCamp

NEWS MEDIA COVERAGE

2023   **ND Engineering News.** "Brianna Lynn Wimer named 2023 Google Ph.D. Fellow to address computing needs of vision-impaired people"
2021   **AccessComputing STEM For All Video Showcase.**
2020   **AccessComputing Newsletter Profile.** "Distributed Research Experience for Undergraduates (DREU): Firsthand Benefits"
2019   **UA Engineering News.** "LEGACY program prepares young women of color with computer science education"