BRIANNA WIMER

PH.D. STUDENT, UNIVERSITY OF NOTRE DAME

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RESEARCH INTERESTS

My research interests include understanding, designing, and developing technologies for mental health and people with cognitive disabilities. My research is interdisciplinary and incorporates human-computer interaction, assistive technology, cognitive-aware systems, and digital mental health.

EDUCATION

Joint PhD   University of Notre Dame, Computer Science and Engineering, Psychology   Present
      Research Advisor: Ronald Metoyer, Bradley Gibson

BS   The University of Alabama, Computer Science   July 2021
      Research Area: Human-Centered Computing, CS Education
      Research Mentor: Chris Crawford

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Notre Dame   2021 to Present
Advisor: Ronald Metoyer
- Created four unique prototypes of a nutrition label represented as visual narrative that incorporate a narrative on how to comprehend and read a nutrition label. Set up a quantitative experiment on Amazon Mechanical Turk to understand which prototype improves comprehension the most for consumers.

CRA-WP Distributed Research for Undergraduates (DREU)   Summer 2021
   Research Intern, University of Notre Dame
Supervising Faculty: Ronald Metoyer
- Performed a scoping literature review pf how complex food information has been currently communicated to consumers resulting in three research gaps to address: visual representation to support comprehension of nutrition labels, using narrative structures to communicate product information, and visual representation of a shopping cart to promote a balanced diet.

CRA-WP Distributed Research for Undergraduates (DREU)   Summer 2020
   Research Intern, Tufts University
Supervising Faculty: Elaine Short
- Created a biofeedback video game using respiration rate to help improve emotion regulation for people with Attention Deficit Hyperactivity Disorder creating a new reward system that is not based on giving negative reinforcement.

Undergraduate Research Assistant, The University of Alabama   2019 to 2021
Advisor: Chris Crawford
- Performed a Grounded Theory analysis of high school students' perceptions of computational thinking concepts when they were building brain computer interfaces.

SKILLS

Programming Languages: *Proficient:* C, C++, JavaScript, React, ReactNative, HTML/CSS *Familiar:* Java, Python, SQL
User Research: Contextual Design, Persona Design, Think Aloud, Thematic Analysis, Grounded Theory, Affinity Diagrams
Design: Sketch, Figma
Prototyping: HTML/CSS, JavaScript, MATLAB, D3, ReactNative

TEACHING EXPERIENCE

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

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

AWARDS & ACHIEVEMENTS

Grants & Fellowships
2021- **Jack and Mary Ann Remick Fellowship,** University of Notre Dame
2018-2021 **Louis Stokes Alliance for Minority Participation Scholar,** The University of Alabama

Travel Grants
2022 **CRA-WP Grad Cohort IDEALS in San Diego,** Computing Research Association

Student Awards
2021 **Dean's List,** The University of Alabama
2020 **Dean's List,** The University of Alabama

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

POSTER PRESENTATIONS

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

ACADEMIC SERVICE

Professional Service
2022 **ACM CHI,** Student Volunteer
University and Community Service
2022 **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
2019 **Counselor,** UA's NeuroCamp

NEWS MEDIA COVERAGE

2021 **AccessComputing STEM For All Video Showcase.**
2020 **AccessComputing Newsletter Profile.** "Distributed Research Experience for Undergraduates (DREU): Firsthand Benefits"
https://www.washington.edu/accesscomputing/resources/accesscomputing-news-july-2020/distributed-research-experience-undergraduates-dreu-firsthand-benefits

2019 **UA Engineering News.** "LEGACY program prepares young women of color with computer science education"
https://news.eng.ua.edu/2019/05/legacy-program-prepares-young-women-color-computer-science-education/