

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 Research Advisor: Ronald Metoyer, Bradley Gibson	Present
BS	The University of Alabama, Computer Science Research Area: Human-Centered Computing, CS Education Research Mentor: Chris Crawford	July 2021

RESEARCH EXPERIENCE

Graduate Research Assistant , University of Notre Dame Advisor: Ronald Metoyer	2021 to Present
<ul style="list-style-type: none">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) Research Intern , University of Notre Dame Supervising Faculty: Ronald Metoyer	Summer 2021
<ul style="list-style-type: none">Performed a scoping literature review of 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) Research Intern , Tufts University Supervising Faculty: Elaine Short	Summer 2020
<ul style="list-style-type: none">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 Advisor: Chris Crawford	2019 to 2021
<ul style="list-style-type: none">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/>