

OZIOMA C. OGUINE

PHD STUDENT, UNIVERSITY OF NOTRE DAME

Education	University of Notre Dame, Notre Dame, USA <i>Ph.D.</i> Computer Science and Engineering, Specialization: Human-Computer Interaction Advisor: Dr. Karla Badillo-Urquiola	2022-Present
	University of Abuja, Abuja, Nigeria <i>B.Sc.</i> Computer Science <i>Summa Cum Laude, Vice Chancellor's List; GPA: 3.85/4.00</i>	2015-2020
	National Open University of Nigeria, Abuja, Nigeria <i>B.Sc.</i> Information Technology <i>Magna Cum Laude; GPA: 3.47/4.00</i>	2014-2020

Research Areas	Human-Computer Interaction — User Experience (UX) Design— Online Safety & Privacy — VR/XR — Disability Studies— Underrepresented/Marginalized Users
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Research Experience	EPOCH Research Lab, University of Notre Dame, USA <i>Graduate Research Assistant</i>	2021-Present
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Project: Adolescent Online Safety for Children in Need of Services (CHINS)

- Gathered and processed social media data pertaining to adolescent online safety among Children in Need of Services (CHINS), employing topic modeling techniques like LDA and NMF.
- Led the qualitative coding and thematic analysis process to identify patterns and insights in textual data, categorizing and labeling relevant content.
- Documented and submitted first-authored conference paper on my research findings at a premier HCI venue.

Project: Co-Designing with Foster Youth Online Safety Interventions

- Assisted in Conducting user feedback analysis, interviews, and co-design workshops with foster youth and stakeholders to identify insights, pain points, and improve online safety interventions.
- Strengthened online safety initiatives via user-centered design, inclusivity, and ethical research practices, while disseminating project findings through presentations and posters to colleagues and peers

Post-Baccalaureate Research Education Program (PREP)

University of Abuja, Nigeria

Undergraduate Research Assistant

Supervisor: Dr. Hashim Ibrahim Bisallah

2019-2021

Project: Facial Emotion Recognition to facilitate Mental Health

- Led the Development and implementation of a facial recognition algorithm for emotion detection, collaborating with mental health experts to define monitored parameters and conducting usability testing for system refinement.
- Documented project progress and findings for an IEEE Conference paper on HCI4D, emphasizing the collaborative approach and user-centric improvements.

Professional Experience

MINA BEM ESTAR,
Sao Paulo, Brazil
Visual Designer/ Illustrator

2021-2022

Project: Clients User Experience

- Utilized visual thinking techniques to translate complex concepts and ideas into simple, engaging, and visually appealing graphics, and illustrations. resulting in a 30% increase in audience engagement and a 25% improvement in content comprehension.
- Oversaw the successful rebranding of Paragon's website infographics to complex but aesthetic word cloud graphics, increasing the click-through rate by, 38% and conversions by 10%.
- Presenting finalized ideas and visual concepts to clients.
- Received positive feedback from stakeholders and clients for visually compelling and effective designs.

Awards and Fellowships

- AccessComputing **Student Travel Grant** for TAPIA 2023 **2023**
- **Graduate Justice Fellowship.** University of Notre Dame **2023-2024**
- HCIC **Doctoral Student Travel Grant** (HCIC 2023) **2023**
- **TEEWS Graduate Fellowship** University of Notre Dame **(Summer) 2023**
- **Winner** Rosatom "Atom Empowering Africa" Innovation Nuclear Challenge **2021**
- **2021 EducationUSA Fellow** **2021**
- Junior Achievement Data Analytics **Scholarship Awardee** **2021**
- **Best Graduating Student** Computer Science Department Award **2020**
- **Overall Best** Research Student Award **2020**
- Dean's Academic Excellence Award **(Top 2% Student)** **2020**
- National Institute of Information Technology (NIIT) Scholarship **2019**

Technical Skills

- **UX Research / Design:** Mixed methods, UI/UX design, Affinity Diagramming, Story Boarding, Usability Testing, Interview, Participatory Design, Balsamiq/Figma, Thematic Analysis, Survey Design, Journey Mapping, contextual observation, Prototyping
 - **Programming Languages:** Python, MS SQL Server, C++
 - **Data Science / Machine Learning / AI:** Tensorflow, Keras, Scikit-learn
 - **Development:** Bootstrap, Html, CSS, Javascript, ReactJS
 - **Statistical Analysis:** ANOVA, Paired t-tests
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Selected Workshop Papers

[2023-W3] Oguine, O. C. and Badillo-Urquiola, K. (2023) "You Don't Belong Here: Ableist Microaggressions on Adolescents with Disability(ies) and Special Needs in Social Virtual Reality (VR)" Workshop Paper presented at the workshop on combating toxicity, harassment, and abuse in online social spaces at the 2023 ACM Conference on Human Factors in Computing Systems (CHI 2023), Hamburg, Germany.

[2023-W2] Oguine, O. C., Yao, Y., and Badillo-Urquiola, K. (2023) "Investigating Adolescent Online Safety and Privacy Interventions for Social Virtual Reality" Workshop Paper presented at the workshop on Privacy Interventions and Education (PIE): Encouraging Privacy Protective Behavioral Change at the 2023 ACM Conference on Human Factors in Computing Systems (CHI 2023), Hamburg, Germany.

[2023-W1] Badillo-Urquiola, K. Wan, R., and Oguine, O. C. (2023) "Creating Safer Online Spaces for Marginalized Youth Communities" Workshop Paper presented at the workshop on Privacy Interventions and Education (PIE): Encouraging Privacy Protective Behavioral Change at the 2023 ACM Conference on Human Factors in Computing Systems (CHI 2023), Hamburg, Germany.

Poster Presentation

[2023-P2] Oguine, O. C. Wan, R. and Badillo-Urquiola, K.(2023) "Co-Designing with Foster Youth Online Safety Interventions" Poster presented at the 15th Annual CSE Student Poster Contest and Lunch, University of Notre Dame, IN.

[2022-P1] Oguine, O. C., Wan, R. and Badillo-Urquiola, K.(2022) "Co-Designing with Foster Youth Online Safety Interventions" Poster presented at the Lucy Family Institute for Data and Society Fall Symposium, University of Notre Dame, IN.

Teaching Experience

University of Notre Dame, Notre Dame, USA
Graduate Teaching Assistant

2022-2023

- CSE 40113 - (Fall 2023): Design/Analysis of Algorithms [126 Students]
- CSE 40175 - (Spring 2023): Ethical and Professional Issues [80 Students]
- CSE 40431 - (Fall 2022): Programming Languages [26 Students]

University of Abuja, Nigeria
Undergraduate Teaching Assistant

2017-2019

- CSC 400 - (Spring 2019): Research Project
- CSC 303 - (Fall 2018): Computer Architecture
- CSC 203 - (Fall 2017): Computer Programming 1

Professional Memberships

- **Student Member:** Association of Computing Machinery (ACM)
- **Associate Member:** British Computer Society (BCS)
- **Member:** Black in AI
- **Collegiate Member:** National Society of Black Engineers (NSBE)
- **Member:** International Association of Engineers (IAENG) in Artificial Intelligence

**Invited
Talks**

[2023-T2] Identity & Computing Lecture Series: on "Experience of Computing Students with Disabilities" <https://www.youtube.com/watch?v=yfsDo63W1CY>

[2022-T1] Cambridge University IGCSE Global Perspectives Documentary on "Will AI make Poverty worse in the 21st Century?." <https://youtu.be/BuHvduBK0Rc>

**Academic
Services**

Conference Program Committees
CoReMe Student Volunteer (2023)

Mentoring

Role: Graduate Student Mentor at EPOCH Research Lab

Mentees:

Eliza Thayer, ND, B.S. Computer Science

Matthew Chou, ND, B.S. Computer Science

**Volunteer
Activity**

Center for Social Concerns, University of Notre Dame
Community Engaged Scholarship and Volunteering
