

# Oghenemaro Anuyah

PH.D STUDENT (2023 EXPECTED) · UNIVERSITY OF NOTRE DAME

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## Research Interest

- My research lies in the intersection of Human Computer Interaction and Machine Learning. I currently work on research projects focused on designing and evaluating explainable and accessible Artificial Intelligence (AI) systems from a user-centric standpoint.

## Education

### Ph.D in Computer Science and Engineering

UNIVERSITY OF NOTRE DAME

- **Advisor:** Dr. Ronald Metoyer

Jan 2020 - PRESENT

Notre Dame, IN

### Ph.D in Computer Science (transferred out)

BOISE STATE UNIVERSITY

Aug 2018 - Dec 2019

Boise, ID

### M.S in Computer Science

BOISE STATE UNIVERSITY

Aug 2016-Jul 2018

Boise, ID

### B.S in Computer Science

DELTA STATE UNIVERSITY

Nov 2008-Oct 2012

Delta, NG

## Selected Publications

### Journal Articles

- (J1) **Anuyah O.**, Milton A., Green M., and Pera M. S. "An Empirical Analysis of Search Engines' Response to Web Search Queries Associated with the Classroom Setting". In: *Aslib Journal of Information Management* (Vol. 72 No. 1, pp. 88-111), December 2019.

### Conference Proceedings

- (C4) Downs B., **Anuyah O.**, Shukla A., Fails J., Pera M. S., Wright K., and Kennington C. "KidSpell: A Child-Oriented, Rule-Based, Phonetic Spellchecker". In: *Proceedings of the Twelfth International Conference on Language Resources and Evaluation (LREC)*, 2020.
- (C3) Fails J., Pera M. S., **Anuyah O.**, Kennington C., Wright K., and Bigirimana W. "Query Formulation Assistance for Kids: What is Available, When to Help & What Kids Want". In: *Proceedings of the 18th ACM Conference on Interaction Design and Children (IDC)* (pp. 109-120), June 2019 [**Gave oral presentation**].
- (C2) **Anuyah O.**, Fails J., and Pera M. S. "Investigating Query Formulation Assistance for Children". In: *Proceedings of the 17th ACM Conference on Interaction Design and Children (IDC)* (pp. 581-586), June 2018.
- (C1) Madrazo A. I., Dragovic N., **Anuyah O.**, and Pera M. S. "Looking for the Movie Seven or Sven from the Movie Frozen? A Multi-perspective Strategy for Recommending Queries for Children". In: *Proceedings of the ACM Conference on Human Information Interaction and Retrieval (CHIIR)* (pp. 92-101), March 2018.

### Conference Workshops

- (W4) **Anuyah O.**, Milton A., Green M., and Pera M. S. "The Need for a Comprehensive Strategy to Evaluate Search Engine Performance in the Classroom". In: *3rd International and Interdisciplinary Perspectives on Children & Recommender and Information Retrieval Systems (KidRec) Workshop - Co-located with ACM Interaction Design and Children Conference (IDC)*, June 2019.
- (W2) **Anuyah O.**, Madrazo A. I., and Pera M. S. "Using Structured Knowledge and Traditional Word Embeddings to Generate Concept Representations in the Educational Domain". In: *Companion Proceedings of the 2019 World Wide Web Conference* (pp. 274-282), May 2019 [**Gave oral presentation**].
- (W1) **Anuyah O.**, Madrazo A. I., Dragovic N., and Pera M. S. "Lightning Talk-Looking for the Movie Seven or Sven from the Movie Frozen?". In: *Companion Proceedings of the 2019 World Wide Web Conference* (pp. 1266-1267), May 2019 [**Gave oral presentation**].

## Technical Skills

**Legend:** Used in **most projects** / **several projects** / **one or two projects**.

<b>UX Methods</b>	Usability test, Interview, Observation, Surveying
<b>Data Collection and Analysis</b>	Participatory Design, Affinity Diagramming
<b>Data Science / Machine Learning / AI</b>	Logistic Regression, Clustering, Deep Learning
<b>Programming</b>	Python, R, SQL, Java, Keras
<b>Web Development Languages</b>	HTML, CSS, MySQL, JavaScript, D3.js, PHP, Flask framework
<b>Selected Relevant Coursework</b>	Inferential Statistics, Human Computer Interaction, Machine Learning, Information Visualization

## Research Experience

### University of Notre Dame

Notre Dame, IN

RESEARCH ASSISTANT

January 2020 - present

- Conduct research focused on designing and evaluating explainable Artificial Intelligence (AI) systems from a user-centric standpoint.
- Design interactive environments for visualizing and explaining software traceability links.
- Conduct analysis to understand the information needs of software practitioners in order to inform design of proposed visualization systems.
- Design a system for recommending e-government social services to persons in need of care.
- Conduct and analyze surveys to identify user needs and inform design of the proposed recommender system.

### Boise State University

Boise, ID

RESEARCH ASSISTANT

August 2016 - December 2019

- Conducted research on enhancing web search environments for children.
- Implemented a search interface for archiving children's search sessions.
- Designed an interface that adopts visual cues in presenting query suggestions to users.
- Conducted qualitative and quantitative analysis to understand how search engines respond to children's needs.
- Mentored two undergraduate students and one M.Sc student for research.
- Prepared detailed research reports and worked in a team environment to meet project goals.

## Professional Experience

### Fiogret Limited

Lagos, NG

IT SUPPORT / DATABASE ASSISTANT

September 2013 - August 2016

- Maintained quality and accuracy of information in customer database.
- Provided technical support and planning for projects.
- Monitored system and network devices for optimum performance.
- Documented new and updated technical specifications.

### Guinness Nigeria Plc

Lagos, NG

INTERNSHIP

December 2011 - March 2012

- Troubleshoot and maintained computers, word processing, foundation studies on the use of IT for industrial/ organization management.

## Awards & Recognitions

2020	<b>Scholarship Recipient</b> , Funded to attend the Richard Tapia Computing Conference (Virtual)	Dallas, TX
2020-23	<b>Contributor</b> , National Science Foundation (NSF) grant with award number 1901059 (Ph.D)	Notre Dame, IN
2019	<b>Scholarship Recipient</b> , Alfred M. Dufty, Jr. Graduate Student Travel and Presentation Award	Boise, ID
2018-19	<b>Contributor</b> , NSF grant with award number 1763649 (Ph.D)	Boise, ID
2019	<b>Scholarship Recipient</b> , NSBE BCA/Major/Fellows (\$2,500)	USA
2019	<b>Scholarship Recipient</b> , Funded by IAAMCS to attend National Society of Blacks in Computing Conference	Atlanta, GA
2018	<b>Scholarship Recipient</b> , Funded by Computing Research Association to attend CRA-URMD Grad Cohort	San Diego, CA
2017	<b>Scholarship Recipient</b> , Funded by Anita Borg Institute to attend Grace Hopper Conference	Orlando, FL
2017	<b>Scholarship Recipient</b> , Funded by Computing Research Association to attend CRA-W Grad Cohort	Washington, DC
2017	<b>Assistantship Recipient</b> , Boise State Graduate Assistantship for Teaching and Research	Boise, ID
2016-18	<b>Contributor</b> , NSF grant with award number 1565937 (M.S.)	Boise, ID
2016-17	<b>Scholarship Recipient</b> , Boise State University Graduate GEM Scholarship	Boise, ID

## Service

2020-21	<b>Reviewer</b> , ACM SIGIR Conference on Human Information Interaction and Retrieval
2020-21	<b>Program Committee Member</b> , ACM SIGIR Conference on Human Information Interaction and Retrieval
2020-	<b>Vice President of Careers</b> , Africa Graduate Club of Notre Dame
2019-20	<b>Co-Publicity Chair</b> , ACM UMAP Conference
2019	<b>Student Volunteer</b> , ACM IDC Conference
2018-19	<b>Vice President</b> , National Society of Black Engineers (NSBE): Boise State University Chapter
2018-19	<b>Financial Officer</b> , ACM-W: Boise State University Chapter