

# CHRISANTUS EZE

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## EDUCATION

Oklahoma State University (OSU) | Ph.D., Computer Science (in-view) [Expected: May 2026]

- **Advisor:** Prof. Christopher Crick
- **Research: AI & Robotics:** reinforcement learning, imitation learning, computer vision, self-supervised learning, active learning.

Federal University of Technology, Owerri (FUTO), Nigeria | B.Eng. in Electrical & Electronic Eng October 2013 - October 2018

## PUBLICATIONS

- **Chrisantus Eze** and Christopher Crick. A3: Active Adversarial Alignment for Source-Free Domain Adaptation. Proceedings of the 2024 IEEE International Conference on Machine Learning and Applications (ICMLA).
- **Chrisantus Eze** and Christopher Crick. Enhancing human-robot collaboration by exploring intuitive augmented reality design representations. Proceedings of the 18th ACM/IEEE International Conference on Human-Robot Interaction (HRI), 2023

## RELEVANT EXPERIENCE

Department of Computer Science, OSU | *Graduate Student Researcher* January 2022 - Present

- The primary objective of my research is to enable robots to efficiently grasp and manipulate a wide range of complex objects within various environments. To achieve this, I carry out fundamental deep learning and robotics research involving computer vision, sequence models such as LSTM and Transformers, reinforcement learning, and imitation learning.
- Currently, I am leading a research project that enables robots to grasp and manipulate target objects in densely cluttered environments.

Google Computer Science Research | *Graduate Student Mentee* February 2023 - Present

- Participated in a mentorship program wherein I was paired with a Robotics Researcher at Google as my mentor. This program has subsequently led to an ongoing project focused on robot manipulation to retrieve target objects within cluttered environments.

Seamfix Limited, Nigeria | *Software Engineer* January 2019 - December 2021

- Modularized the BioSmart Software Suite for a new client, reducing the need for extra engineers and making it adaptable for multiple clients. This led to a 15% revenue increase.

## NON-RESEARCH PROJECTS

### Fraud Detection Model

- I addressed the critical need for fraud prevention and detection within a financial institution, aiming to safeguard customer accounts and minimize financial losses resulting from fraudulent activities.
- In pursuit of this objective, I employed machine learning algorithms, including anomaly detection and supervised learning, to analyze transaction data for unusual patterns and behaviors.

### Scene Understanding and Segmentation Model

- I implemented a segmentation model to effectively segment a densely cluttered scene. Additionally, I trained a model to calculate the relevance of objects within the scene. Based on this relevance assessment, the model selectively retrieves objects. This system can be applied to enhance object retrieval tasks.

## HONORS & AWARDS

- **Computer Science Graduate Research and Leadership Awards at Oklahoma State University** September 2022
- **Association for Computing Machinery (ACM) 2022 Hackathon First Place Winner** March 2022