

OBASI YETUNDE OLUWATOYOSI

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github.com/yetunde2000 website; github.io/yetunde2000

Summary

I am a post-master's researcher in the Department of Robotics and Mechatronics Engineering at DGIST, South Korea. My research focuses on virtual reality-based systems for microsurgical applications, where I develop deep learning-driven methods to enhance interaction accuracy, sensor reliability, and human-machine performance.

Education

M.Sc. in Artificial Intelligence Feb 2023 - Aug 2025
Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea

- **Thesis:** Revolutionizing VR Controller Precision For Micromanipulation Using Time2vec+Transformer model

B.Sc. in Physics Sept 20216 - Oct 2021
University of Ilorin, Kwara (Unilorin), Nigeria

- **Thesis:** Construction of water level controller Using Arduino(Microcontroller)
- Advisor: Professor Akomolafe
- Co-Advisor: Professor Alabi

Research Experience

Post Master Researcher Sept. 2025 - Present
Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea

Graduate Research and Teaching Assistant Feb. 2023 - Aug. 2025
Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea

- Data collection from various experiments, employing statistical tools and software for in-depth analysis, and interpreting results to draw meaningful conclusions.
- Preparing research papers for publication, including drafting, revising, and finalizing manuscripts, as well as reviewing papers submitted by peers to ensure academic rigor and quality.
- Actively engaging in experimental procedures, following established protocols and documenting observations.
- Graded assignments and exams, offering detailed feedback to support student learning.
- Provided academic support during office hours, addressing individual questions and concerns.
- Monitored student progress and contributed to identifying areas where additional support was needed.

Work Experience

Physics Instructor May 2022 - Oct 2022
Ben-G Model College, Agege, Lagos, Nigeria

- Planned and delivered engaging physics lessons aligned with the national curriculum.
- Developed assessments and graded student work to track progress and understanding.

Physics Instructor Nov 2021 - May 2022
National School, Yahe, Cross-River, Nigeria

- Assessed student performance through tests, assignments, and interactive class activities.
- Taught core physics topics to senior secondary students, aligning with national education standards.

Supervisor - Mighty Adenuga Aug 2021 - Nov 2021

- Managed subordinates to accomplish tasks.
- Ensured proper documentation..

Technical Skills

- SolidWorks, Unity, LabView, Blender
- Microsoft word, Powerpoint, Latex(Overleaf)
- Deep Learning

Research Interest

- Virtual Reality
- Human Robot Interaction
- Natural Language Processing
- Interaction Design

Activities and Volunteering

- Social Media Director DGIST International Student Association, [DISA] 2025
- Social Media Manager DGIST International Student Association, [DISA] 2024
- Assisted in propagating the gospel while in school in various student halls 2016-2021.
- Volunteered as a community Physics and Mathematics Instructor 2018-2021.

Awards and Conferences

Most Vibrant(female), NAPS (Nigerian Association of Physics Students, Unilorin Chapter)	<i>July 2021</i>
KMSE society south korea (Poster).	<i>April 2024</i>
IEIE 2024 Summer Conference South Korea (Oral).	<i>June 2024</i>
Conference on Electronics, Semiconductor, and AI South Korea (Poster).	<i>August 2025</i>
DGIST Graduate Scholarship Award	<i>Feb 2023 - Feb 2025</i>
Lotte Foundation Scholarship Award	<i>Feb 2023 - Feb 2025</i>

Languages

English: Native language; distinguished proficiency in listening, speaking, reading, and writing.

References

Prof. Idowu Amos Sesan (Ph.D) Department of Mathematics-University of Ilorin, Nigeria
Email: sesan@yahoo.edu.ng

Prof. Kayode Oyewumi (Ph.D) Department of Physics-University of Ilorin, Nigeria
Email: Kjoyewumi66@unilorin.edu.ng

Dr.John Prada(Ph.D) Daegu Gyeongbuk Institute of Science and Technology Camera Culture Group (CCG), DGIST Division of Intelligent Robot
Email: prada.john@dgist.ac.kr