Ismail Muritala

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EDUCATION

Loyola University Chicago   Chicago, IL
Bachelor of Science in Computer Science   Graduation: Aug 2025

EXPERIENCE

Loyola University Center for Translational Research (PKH Lab)   Chicago, IL
Research Assistant   Oct 2024 – Present
- Work aimed at investigating the relationship between phosphosignaling and contractile function in the heart.
- Our research was building upon a recent study that showed that inhibition of glycogen synthase kinase-3β (GSK-3β) alters length-dependent activation (LDA) in mouse hearts. Our study focused on revealing key phosphorylation sites and signaling pathways that modulate sarcomeric function in response to GSK-3β inhibition.

Loyola University Chicago (Dligach Lab)   Chicago, IL
Undergraduate Researcher   Nov 2023 – Aug 2024
- Natural language processing & machine learning lab with a focus on biomedical applications.
- Project involved developing models for medication prediction based on electronic health records.

Field Museum (Grainger Bioinformatics Research Center)   Chicago, IL
Research Intern   June 2023 – Sep 2023
- Our research focused on identifying genomic regions potentially linked to reproductive mode across three different lichen species pairs.
- Research involved analyzing RAD-seq (restriction-site associated DNA sequencing) data, conducting GWAS analyses, and visualizing results from genetic association studies.
- Presented a poster presentation of our research at the ISE conference in Chicago.

SKILLS

Hardware & Design: CAD (Fusion360), 3D printing & prototyping, embedded systems development, sensor integration, electromechanical assembly, PCB design & fabrication

Software: C++, Python, R, computer vision, machine learning

Research & Data: Genomic data analysis (RAD-seq, GWAS), statistical analysis, clinical NLP/ML