

# Folajimi OLANIYAN

## Curriculum Vitae

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🌐 My Webpage  
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### Education

- 2020 – 2022 **Master of Science, Informatics**, *University of Grenoble Alpes*, Grenoble, France.  
**Coursework:** *Robotics and IoT, Visual Computing, Foundations of Data Science, Intelligent Systems*
- 2010 – 2015 **Bachelor of Science, Electrical/Electronic Engineering**, *University of Lagos*, Lagos, Nigeria.  
**Thesis:** *Design and Control of a Micro Aerial Vehicle*

### Research Experience

#### Summer Research Internship

- June, 2021 – Sept., 2021 ***Detection and tracking of moving persons using deep learning techniques.***
- Created a dataset by using Python and ROS to label the position of legs in 2D laser data recorded over several hours of **Robair's** navigation in indoor/outdoor environments
  - Implemented and trained a Convolutional Neural Network in PyTorch to detect and localize the legs of moving persons, achieving 90% accuracy on the test set
  - Proposed a Recurrent Convolutional Neural Network (CNN-LSTM) to track a moving person over time
- Advisor: **Prof. Olivier Aycard**, *University of Grenoble Alpes* (**Bio**)
- Team: MARVIN: Artificial Intelligence and Robotics Lab, Grenoble

#### Semester Research

- Feb., 2021 – June, 2021 ***An AI Approach to Detect Performance Issues in Distributed Systems*** .
- Trained and evaluated the performance of one-class classification algorithms in detecting performance anomalies in time series data from distributed applications
  - Built a Digital Shadow of an Apache Spark application by using a time-series database (Prometheus) to monitor and collect run-time metrics
  - Used Dynamic Time Warping distances between executions of normal and anomalous programs to determine the subset of metrics used to train classification models
- Advisor: **Prof. Thomas Ropars**, *University of Grenoble Alpes* (**Bio**)
- Team: ERODS, Grenoble

### Publications

#### Abstracts

- 2016 **F.A. Olaniyan, D.T. Emukpere, M.A.K Adelabu**, *Design and Control of a Micro-Aerial Vehicle*, "Design and Control of a Micro-Aerial Vehicle", In Book of Abstracts, 11th University of Lagos, Annual Research Conference and Fair, Lagos, Nigeria, Nov 8 – 10, 2016. p. 91 .

#### Posters

- 2016 **F.A. Olaniyan, D.T. Emukpere, M.A.K Adelabu**, *Design and Control of a Micro-Aerial Vehicle*, "Design and Control of a Micro-Aerial Vehicle", presented at the 11th University of Lagos, Annual Research Conference and Fair, Lagos, Nigeria, Nov 8 – 10, 2016. .

### Fellowships & Awards

- 2021 – 2022 **MIAI@Grenoble Alpes Scholarship** Multi-disciplinary Institute in Artificial Intelligence, Scholarship for exceptional students in Artificial Intelligence

## Technical Skills

**Languages** Python, JAVA, C/C++, JavaScript, Octave/MATLAB

**Frameworks** PyTorch, Tensorflow, ROS, Gazebo, Apache Spark, Scikit-Learn, OpenCV

**DevOps** Docker, Git, Prometheus, JIRA