

EDUCATION

Ph.D. Electrical and Computer Engineering

University of Arizona

Advisor: Prof. Abhijit Mahalanobis, GPA: 4.0/4.0

Transfer with advisor from the University of Central Florida

Ph.D. in Computer Science, Jan 2021 – Aug 2022

Tucson, AZ

Aug 2022 – May 2027

M.S. Electrical and Computer Engineering

Carnegie Mellon University

Advisor: Prof. Vijayakumar Bhagavatula, GPA: 3.88/4.0

Pittsburgh, PA

Aug 2018 – Dec 2019

B.Sc. Electrical and Computer Engineering

Addis Ababa University

Advisor: Dr. Beneyam Haile, GPA: 3.83

Addis Ababa, Ethiopia

Oct 2012 – Jul 2017

– Thesis: Implementation of Indoor Positioning System using Wi-Fi signals

EXPERIENCE

Graduate Research Assistant

Integrated Sensing and Processing Lab (ISPL), University of Arizona

Currently working on computer vision algorithms for visual-based localization with infrared and point cloud data in GPS-denied environments. Also working on adapting image classification and detection models to changing class priors during deployment.

Tucson, Arizona

Aug 2022 – May 2027

Graduate Research Assistant

Center For Research in Computer Vision, UCF

Worked on small target detection in infrared and RGB satellite imagery.

Orlando, FL

Jan 2021 – Aug 2022

Machine Learning Engineer

mDoc Healthcare

Designed and implemented a conversational and FAQ chatbot using Google's Dialogflow to help doctors answer questions from patients.

Kigali, Rwanda

Jun 2020 – Dec 2020

Software Engineer

WebSprix IT Solutions

Customized an Enterprise Resource Planning (ERP) web application which reduced the number of manual office work by approximately 30% by converting routine internal office tasks to electronic.

Addis Ababa, Ethiopia

Aug 2017 – Aug 2018

PUBLICATIONS

1. **N. Daba**, B. McIntosh, A. Mahalanobis
Adapting Classifiers To Changing Class Priors During Deployment
ECML PKDD workshop, 2023 [Runner-up best paper award winner](#).

PROJECTS

- Design and implementation of a 3D pong game for the Oculus Quest VR headset, 2019
- Image-based localization with multimodal data for GPS-denied environments, 2022 - 2024 (current project)
- Reinforcement Learning strategy for Combined Arms large-scale team battle, 2022

SKILLS

Programming Languages and Tools: C/C++, Python, MATLAB, JavaScript

Machine Learning Frameworks/APIs: PyTorch, Gym, PettingZoo

Publishing Tools: Git, L^AT_EX

Simulation and Design Tools: Unity, Oculus Go and Oculus Quest