Adrian Fernandez Cuevas

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EXPERIENCE

Universidad Carlos III de Madrid   **September 2024 – June 2025**
Research Assistant, Department of Bioengineering   *Leganes, Spain*

Research on deep learning algorithms for medical image processing and quantification.

- Design of YOLO and Unet models to segment lung nodules and lungs in CT scans.

Tecnun University of Navarra   **February 2024 – June 2024**
Bachelor Thesis   *San Sebastian, Spain*

Development of an AI-based system for the classification of cervical cytology samples.

- Classification of digital pathology images using weak supervision and multiple instance learning.
- State-of-the-art evaluation, data collection and analysis, programming, and evaluation.
- Model created in Pytorch, consisting of a convolutional neural network followed by a recurrent neural network.
- Achieved 97% accuracy and 98% F1 score on test set.

Fundación Vicomtech   **June 2023 – August 2023**
Intern   *San Sebastian, Spain*

- Developed a visual analytics interface with Python and Streamlit for cancer patient data.
- Contributed to the frontend of the TopFIND web scraper, fixing bugs and adding features.
- Provided technical support for the Cancer Survivor Smart Card project.

Tecnun eRacing   **August 2022 – August 2024**
Formula Student, Head of Race Engineering   *San Sebastian, Spain*

- Race engineer for a Formula Student team.
- Led a team of 3 managing all on-track activities.
- Created reports with Jupyter Notebooks to visualize vital car data.
- Set up a driving simulator for driver training.
- Implemented strain gauges for suspension analysis.
- Contributed as part of the trackside team at the Barcelona-Catalunya circuit, securing 2nd place overall.

PROJECTS

CAF Machine Learning Challenge   **April 2023 – May 2023**

- Detect and characterize defects in railway tracks using vertical acceleration data from trains.
- Supervised classification with Gaussian kernel SVM, trained in MATLAB.
- Won first place with an F-score of ~97%.

EDUCATION

Tecnun University of Navarra   **June 2024**
Bachelor's Degree in Biomedical Engineering   *San Sebastian, Spain*

- Class representative

SKILLS

Python, MATLAB, R, Git, Arduino, 3D Printing, Data Analysis, Machine Learning, Statistics, Laboratory Techniques, Motorsports, Sensors, Vehicle Dynamics, Vehicle Dynamics Simulations. **Languages**: English (C2), Spanish