Samuel Camba Fernández

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20 Abril 1995

EDUCATION

PHD STUDENT IN ARTIFICIAL INTELLIGENCE

I am currently researching in AI applied to the intelligent analysis of degenerative diseases, through X-ray and MR imaging, with weakly supervised and unsupervised learning techniques. The objective is to study algorithms that help in patient follow-up.

OVIEDO UNIVERSITY – Polytechnic Engineering School

Gijon, Asturias
Sep 2022 – At present
Expected end 2026

MASTER'S DEGREE IN INDUSTRIAL COMPUTER ENGINEERING

OVIEDO UNIVERSITY – Polytechnic Engineering School

Gijon, Asturias
Sep 2019 - Feb 2021

DEGREE IN COMPUTER ENGINEERING

OVIEDO UNIVERSITY – Polytechnic Engineering School

Gijon, Asturias
Sep 2015 – Jul 2019

PROFESSIONAL EXPERIENCE

IZERTIS, Artificial Vision Researcher Engineer: Emerging Technologies Department.

Gijon, Asturias
Feb 2021 – At present

- Currently researcher and team manager in R+D projects in the field of artificial intelligence. In the last years I have developed and led more than 8 projects. Among which we can highlight topics such as:
  » Industry 4.0 quality monitoring and inspection in production line factories, drone imaging in photovoltaic plants, or growth inspection in fruit farms.
  » In the field of healthcare, the application of AI in microscopy imaging for the development of new drugs, the study of the evolution of Parkinson's disease (Abstract published), or the analysis of injury recovery.

IKERLAN, Researcher: Data Analytics and Artificial Intelligence Department.

Basque Country, Spain
Sep 2020 –Jan 2021

- Master's internship at the Ikerlan Technology Centre, Mondragon. Machine learning and deep learning models for the detection of anomalies in different problems of the industrial environment and industry 4.0.

UNIOVI, Research Fellow: Computer Science and Artificial Intelligence Department.

Asturias, Spain
Oct 2018 – Dec 2019

- Research grant holder at the University of Oviedo, collaborating in different projects in the field o artificial intelligence. Development of optimization models with genetic algorithms and multi-agent models. Development of predictive models with neural networks and deep learning.

UNIOVI, Research Fellow: Project for the monitoring of hydrokinetic turbines.

<div align="right">Asturias, Spain
Jul 2017 – Mar 2018</div>

- Scholarship holder at the University of Oviedo in the CE3I2 research group. Design and development of software for the supervision, control, and data acquisition of hydrokinetic turbines in a test bench.

- Published paper "Control and Monitoring System for Hydraulic Microtubines Test Benches": https://doi.org/10.3390/proceedings2231445

OTHERS

IRCSEEME CONFERENCE: Presentation at the 2nd IRCSEEME International Conference

<div align="right">Mieres, Asturias
Jul 2018</div>

- Oral presentation of the work entitled: "Control and Monitoring System for Hydraulic Microtubines Test Benches" at the second international conference on Sustainable Energy, Engineering, Materials and the Environment.

CENTRE FOR THE STUDY OF ORGANISMS (COS):

<div align="right">Heidelberg, Germany
Sep 2018</div>

- A short stay at the Heidelberg University of Technology. Exchange visit with the biology and bioinformatics team at the "Centre for Organismal Studies". Tutor Prof. Dr. Joachim Wittbrodt

COURSES:

- "Machine Learning", Stanford University (Coursera)
- "Biology Meets Programming: Bioinformatics for Beginners", University of California San Diego (Coursera)
- "Robotics_ Robot Programming with ROS" (Udemy)

CERTIFICATIONS:

- Scrum Master Professional Certified – Aug 2022

SKILLS

LANGUAGES	Spanish (native), English (fluid)
PROGRAMMING LANGUAGE	**Python (expert),** Java/C# (high) Previously used (medium): C, C++, Matlab
FRAMEWORKS for (ML) & (DA)	TensorFlow, Keras, Pytorch, Scikit-learn, Pandas, Numpy, OpenCV, etc…
OTHER PROGRAMMES	QT, Conda, Jupyter Notebook, Git, Docker, Office, ROS/Gazebo, Google Cloud (entry), Azure ML (entry), Amazon WS (entry).
ACTIVITIES	**Travel lover:** Spain, United Kingdom, Germany, Italy, Norway, Turkey, China, Jordan, Romania, France, United States, Egypt, Netherlands, Mexico, Belgium, Chez Rep., Greece, … **Sports:** Canoeing, Running, Surf **Hobbies:** Painting, Sculpture, Photography