Trinidad Monreal

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EDUCATION

University of Buenos Aires | *Specialization in Artificial Intelligence*	Aug. 2022 – Aug. 2023
Favaloro University | *Biomedical Engineering*	Feb. 2016 – May 2022
Polytechnic University of Madrid | *Biomedical Engineering University Exchange*	Jan. 2020 – Jul. 2020

EXPERIENCE

Artificial Intelligence and Robotics Laboratory (LINAR), University of San Andrés   Aug. 2023 – Present
Research and Development Engineer – Developing AI models for challenges in biomedical engineering and related fields.

University of San Andrés   Aug. 2023 – Present
Teaching Assistant – Courses: "Machine Learning" and "Introduction to Computational Thinking".

Embryoxite   Jan. 2023 – Aug. 2023
Data Scientist – Developed AI models and statistical analysis using metabolomic and clinical data.

Austral Hospital   Aug. 2020 – Nov. 2021
Bioengineering Intern – Performed preventive maintenance on 500+ medical devices across HQ and 5 peripheral sites.

Favaloro University   Aug. 2019 – Dec. 2021
Teaching Assistant – Course: "Control Engineering".

Open English   Aug. 2017 – Present
English Teacher – Online to Spanish-speaking students aged 7 to 15.

COURSES AND CERTIFICATIONS

EAMTA – Argentine Conference on Electronics \| *Implantable Devices*   Mar. 2023
Designing ASICs for medical implants, focusing on ultra-low power, reliability, safety and patient interaction.

Edge Impulse \| *Computer Vision with Embedded Machine Learning*   Feb. 2023
Developed an image classification and object detection system, deployed on a Raspberry Pi 4 with Pi Camera.

Coderhouse \| *Data Science and Data Analytics Bootcamp*   Feb. 2022 – Feb. 2023
Created ML model for thyroid disease outcome prediction and designed Power BI dashboards.

DeepLearning.AI \| *AI for Medical Diagnosis*   Jul. 2022
Built image classification and segmentation models to diagnose lung and brain disorders in x-rays and MRIs.

UNI-Prep Institute \| *TESOL*   Oct. 2021
Teacher of English to Speakers of Other Languages 120 hs certification course.

IAE Business School \| *NAVES National*   Nov. 2019
Mastered entrepreneurial skills by attending 8 seminars on finance, business model and marketing.

PROJECTS

Radiation-Induced Erythema Diagnosis through Computer Vision   Aug. 2023 – Present
- Collaborative project with interdisciplinary team from clinic "Leben Salud" and LINAR.
- Initiated the project from scratch, including the development of a protocol for data acquisition and anonymization.
- Currently making progress in obtaining clinical data and thermal images with expert medical annotation.

Neural network-based analysis of ambulatory blood pressure monitoring reports:
predicting adverse events in hypertensive patients   Dec. 2022 – Present
- Collaborative thesis project with "Hospital Alemán" for the Specialization in AI. Graded 10/10.
- Ongoing development in LINAR.

ProtoPype: Rapid Prototyping Tool for Image Processing   Sep. 2020 – May 2022
- Project conducted as part of my thesis for my biomedical engineering degree. Graded 10/10.
- Designed and developed a user-friendly app for prototyping image processing pipelines.

SKILLS

Technical: Python (ML stack), C++, C#, MATLAB, Simulink, MySQL, SQL Server, PostgreSQL, JSON, AngularJS, Ionic, Kivy, Git, Google Cloud Platform, Power BI, LaTeX, Microsoft Office Suite, Ubuntu, Windows.
Languages: Native English, Native Spanish, Basic French.

AWARDS

Hackathon ITBA 2018: 1st place out of 50 teams.