

EDUCATION

•Bioengineering - Senior year (85%)	2020-ongoing
Buenos Aires Institute of Technology	Grade avg.: 8.66/10.0
•Friends of Fulbright 2024 exchange program	Spring 2024
University of New Mexico	Completed

EXPERIENCE

•AI Internship at Biwares	Mar 2025 - Present day
– Maintenance and development of an AI virtual assistant for a bank	
– Creation of tools to streamline model evaluation in production	
– Skills involved: OpenAI, Langgraph, Langchain, Git, GitHub, API management, Prompting, Scrum	
•Applied AI Engineering Internship at DevRev	Dec 2024 - Mar 2025
– Development of AI-powered automations to optimize internal processes	
– Evaluation and implementation of AI agents for customer support	
– Skills involved: Typescript, Git, GitHub, API management, Unit testing, Prompting, Scrum	
•Teaching assistant at ITBA	Aug 2021 - Present day
– Assisted in teaching classes in Introduction to Informatics and Data Structures and Algorithms, designed and graded assignments and exams	
– Skills involved: Python, Object-Oriented Programming, Public speaking, Teaching	

PERSONAL PROJECTS

•LungoVax: an interactive mechanical ventilation simulator
Awarded a special mention at the Argentinian physiology conference 2023
– Models lung response under a wide range of stimuli and experimental conditions
– Runs on a self-implemented Runge-Kutta 4 based differential equation solver engine
– Technologies: Python, NumPy, TKinter
•CircDrosView: an interactive visualizer for single-cell transcriptomics on Drosophila melanogaster
Based upon Rosbash's 2021 paper "Transcriptomic taxonomy of Drosophila circadian neurons around the clock"
– Extracts, transforms, and loads data from a single-cell RNA-seq dataset
– Allows for dot plot, heatmap, hourly expression, and cell type distribution visualizations
– Technologies: Python, NumPy, Pandas, Seaborn, Scanpy, Anndata, Streamlit
•Semi-automatic nuchal translucency measurement
An objective, user independent algorithm to measure nuchal translucency in ultrasound fetal scan
– Deep learning based image segmentation, combined with generalized linear regression models
– Technologies: Python, NumPy, OpenCV, SITK, Keras

TECHNICAL SKILLS AND INTERESTS

**Languages:** Spanish (native), English (proficient), French (intermediate)  
**Programming Languages:** C, Python, MATLAB, Arduino, Typescript  
**Libraries:** Numpy, Matplotlib, Jupyter, Scipy, Pandas, sklearn, OpenCV, PyTorch, Langchain, Langgraph  
**Tools:** VS Code, Git, GitHub, Linux, Trello, MS Office, Siemens NX, SolidWorks, mySql, L<sup>A</sup>T<sub>E</sub>X  
**Fields of Interest:** ML, AI, Deep Learning, Computational Modeling, Signal Processing, Computer Vision  
**Soft Skills:** Autodidact, Adaptability, Agile methodology, Scrum framework

CERTIFICATIONS

•MITx Machine Learning with Python: From Linear Models to Deep Learning	2024
•MITx Introduction to Computer Science and Programming Using Python	2022
•Cambridge Certificate of Proficiency in English (CPE)	2019
•International Baccalaureate (IB)	2019
•High School Head Pupil and Valedictorian	2019