

Rodrigo Pozo

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🎓 ACADEMIC BACKGROUND

2023 - Present	Master of Science in Engineering <i>Pontificia Universidad Católica de Chile</i> Study focus: Use of generative models of deep neural networks (GANs, VAEs, Diffusion Models, Transformers) to study computational creativity in audio and music	📍 Macul
2019 - Present	Electrical Engineering <i>Pontificia Universidad Católica de Chile</i> Currently enrolled in an undergraduate program leading to a degree in electrical civil engineering with a specialization in programming.	📍 Macul
2011 - 2019	High School <i>Liceo José Victorino Lastarria</i>	📍 Providencia

💼 WORK EXPERIENCE

Dec. 2023 - Mar. 2024	Professional Internship <i>Manglar Labs SpA.</i> Conducted requirements gathering for Internet of Things (IoT) systems, with a particular focus on satellite communication. Evaluated a satellite communication module, performing various tests such as energy consumption measurement, designing a use case for the livestock sector, and conducting field tests. Additionally, a technical report was written summarizing the results obtained and conclusions derived from the project.	📍 Providencia
January 2023	Electrical Maintenance Intern <i>Madeco by Nexans</i> Carried out preventive maintenance tasks on machinery and production lines at the Madeco <i>by Nexans</i> conductor factory, with a specialized focus on the electrical field. My responsibilities included maintenance and calibration of electrical panels, execution of cleaning protocols, and inspection of motors and instrumentation.	📍 San Miguel
2021 - 2022	Undergraduate Researcher <i>Faculty of Engineering UC</i> Developed computational simulations to study systematic effects present in the optics used by cosmological experiments observing the cosmic background from Chile. Our group collaborated directly with major experiments in this area, contributing to the characterization and control of these effects. Specifically, I modeled the optical response of the CLASS telescopes using the General Reflector Antenna Software Package (GRASP), allowing for the analysis and mitigation of systematic effects in the optics of these telescopes.	📍 Macul

💻 PROFESSIONAL SKILLS

Data Science

Pandas: *Advanced*
Matplotlib: *Advanced*
Mathematica: *Advanced*
Pytorch : *Intermediate*
Tensorflow: *Intermediate*
MATLAB: *Intermediate*
MongoDB: *Basic*

Languages

Python: *Advanced*
C/C++: *Advanced*
JavaScript: *Basic*
SQL: *Intermediate*
Matlab: *Intermediate*

Simulation

LTSpice: *Advanced*
GRASP: *Intermediate*
Vivado: *Intermediate*

Office Tools

MS Office: *Intermediate*
LaTeX: *Advanced*

👤 OTHER EXPERIENCES

2022

Winter Work

Volunteer

📍 Nueva Imperial, Araucanía

Construction of poverty alleviation tools such as pig pens, greenhouses, chicken coops, clay ovens, etc. All of these were aimed at low-income families in the Araucanía Region. This was done in a commission of 180 volunteers from various professions and universities.

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