Evelyn Coronel

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SUMMARY

Machine Learning is a devil, and I happen to be a physicist. I'm from Sapucai, Paraguay. I love coding and decoding other's people code. Data Science is science, and my education prepared me to be a scientist. I have experience in classical machine learning, also reinforcement and unsupervised learning. I worked in ML for more than a year and a half so far: industry and scientific research. I'm looking forward to new experiences.

EXPERIENCE

❖ **Humboldt-Universität zu Berlin**   August 2021 - February 2022
STUDENT TUTOR: *Tutorial classes for Einführung in Maschinelles Lernen für Physiker (Introduction to Machine Learning for Physicists) for the winter term 2021-2022.*

❖ **Deutsches Elektronen-Synchrotron DESY**   August 2021 - February 2022
GRADUATE RESEARCHER *I learned about the state-of-the-art Graphs Neural Networks papers in physics and explored and experimented with repositories on the topic.* Advisor: Prof. Dr. Judith Katzy

❖ **Engineering School Research Division** (Universidad Nacional de Asunción)   May 2021 - July 2021
RESEARCH INTERN: *Data Analysis of Muon Showers with Python and* `C++`.

❖ **Cortical.com, Inc.**   December 2020 - July 2021
CONSULTANT (Remote Work): *Focus in Reinforcement Learning & Bayesian Learning, I developed algorithms and helped to debug existing codes.*

REMOTE INTERNSHIP (April 2020 - June 2020): *I learned to approach different problems with a more pragmatic point of view, beyond the mathematical models with unsupervised and reinforcement learning techniques.*

❖ **The Pierre Auger Observatory**   August 2019 - February 2021
STUDENT INTERN: *During Bachelor's and Master's degrees, I performed data analysis on the atmospheric conditions effects over the measurements of ultra high energy cosmic rays. I searched for large scale anisotropies in the 1 EeV - 2 EeV energy range of the Pierre Auger data, finding anomalies suggesting a dipole within this range.* Advisor: Prof. Dr. Silvia Mollerach

❖ **Laboratory for Photonics & Optoelectronics**   January 2019 - June 2019
STUDENT INTERN: *As an undergraduate student, I worked in the first stage of measurements of the Bose–Einstein condensation of polaritons in the Bariloche Atomic Center. I was acknowledged for my work in the following paper* `https://doi.org/10.1038/s41467-020-18358-z`. Advisor: Prof. Dr. Alejandro Fainstein.

EDUCATION

❖ **Instituto Balseiro**   August 2019 - February 2021
MASTER'S DEGREE IN PHYSICS: I graduated with an overall 7.16/10 GPA.
Dissertation: "Análisis de direcciones de arribo de rayos cósmicos de ultra-alta energía en el Observatorio Pierre Auger" (Analysis of the Arrival directions of Ultra High Energy cosmic rays detected by The Pierre Auger Observatory).

❖ **Instituto Balseiro**   August 2017 - December 2019
BACHELOR'S DEGREE IN PHYSICS: I graduated with an overall 8.16/10 GPA.

SKILLS & INTERESTS

✶ Languages/Technologies: Proficient in Python, C++ & Shell Scripting (`bash`, `sed` & `awk` mostly). Familiar with ROOT, CUDA, Git, PyTorch. Experienced in Tensorflow, LaTeX, GNU/Linux.

★ Interested in Gaming, Data Science, Machine Learning, Philology, Astronomy, Programming and Mental Health Awareness.

HONORS & AWARDS

❖ **Scholarship** - Comisión Nacional de Energía Atómica   August 2017 - February 2021

❖ **Scholarship** - Itaipu Binacional   June 2015 - July 2017
State-founded scholarship for outstanding students from low-income families in Paraguay

❖ **Silver Medal** - Latin American Astronomy and Astronautics Olympiad   August 2014
Olympiad for high school level students in Minas, Uruguay. We were tested for basic astrophysics calculations and water rockets construction.

CONFERENCE

❖ **104^a Reunión de la Asociación Física Argentina**   September 30th 2019 - October 3rd 2019
104th Argentinian Physics Association Annual Meeting

Poster: Condensado de Bose-Einstein de polaritones en microcavidades ópticas de (Al,Ga)As. *(Bose-Einstein Condensation of polaritons in (Al,Ga)As optical cavities)*