

EVELYN CORONEL

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Education

Instituto Balseiro | Master's degree in Physics Bariloche, Argentina Aug 2019 - Feb 2021

Dissertation: *Analysis of the Arrival directions of Ultra-High Energy cosmic rays detected by The Pierre Auger Observatory*. Cum laude. Advisor: Prof. Dr Silvia Mollerach. BS+MS GPA 7.50 / 10

- Scholarship from the Argentinean Atomic Commission.
- I performed data analysis using **ROOT**, **C++** and **Python**, finding anomalies, with Maximum Likelihood, suggesting a possible energy dipole of ultra high energy cosmic rays.
- **Courses:** Quantum Field Theory I & II, Particle Phenomenology, Deep Learning, OPP in C++

Skills

Languages: Python, C++, bash & awk scripts for large datasets, LaTeX

Frameworks: PyTorch, Tensorflow, Numpy, Matplotlib, Scikit-Learn, Pandas, Git

Experience

DESY* | Graduate Work Hamburg, Germany | Sep 2021 - Mar 2022

I learned about the state-of-the-art Deep Graphs CNNs papers in physics and explored and experimented with repositories on the topic using **PyTorch Geometrical**. Advisor: Prof. Dr Judith Katzy. (* Deutsches Elektronen-Synchrotron)

Cortical.com, Inc. | Machine Learning Consultant San Francisco, CA | Dec 2020 - Jul 2021

Remote Work. Focus on Reinforcement Learning & Bayesian Learning. I developed algorithms and helped to debug existing codes with **C++** and **CUDA** what later were deployed into production.

Cortical.com, Inc. | Remote Internship San Francisco, CA | Apr 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 using **C++**.

Bariloche Atomic Center | Intern Bariloche, Argentina | Jan 2019 - June 2019

I worked with the group that performed the first measurements of the Bose-Einstein condensation of polaritons in the Laboratory for Photonics & Optoelectronics programming data analysis software with **Numpy** and **Scipy**. I was acknowledged for my work in the following paper:

<https://doi.org/10.1038/s41467-020-18358-z>. Advisor: Prof. Dr Alejandro Fainstein.

Interests

Reinforcement and Unsupervised Learning, Music, Creative writing, Agriculture, Teaching