



Renzo Zagarra Saez

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Mendoza - Argentina

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🌐 <https://github.com/RenzoZS>

in Renzo Zagarra Saez

About

I am a physicist, I like to understand things in depth and in the simplest way possible. I like to share my knowledge and point of view with others, and I love to think of the best way to do it. Analytical thinking, mathematics and computational skills are my main weapons in problem solving.

Education

Aug. 2021 - Dec. 2022. **M.Sc. in Physics**

Instituto Balseiro - UnCuyo

Thesis: Wavefronts in reaction-diffusion equations over heterogeneous media.

Aug. 2019 - Dec. 2021. **Bachelor in Physics**

Instituto Balseiro - UnCuyo

Thesis: Massively parallel simulations of fire and epidemic propagation models. 🔗

Mar. 2017 - Dec. 2018. **Mechatronics Engineering**

Facultad de Ingeniería - UnCuyo

Two years before applying to Instituto Balseiro.

Mar. 2012 - Dec. 2016. **Secondary school in**

Economics and Administration

Escuela de Comercio Martín Zapata - UnCuyo

Current situation

Aug. 2021 – Dec. 2022. **Master's student**

Condensed Matter Theory Group

Centro Atómico Bariloche - CNEA - UnCuyo

Development of Python code for solving reaction-diffusion equations with parallel programming techniques using CUDA.

Experience

May. 2021 – Sep. 2021. **Intern**

Photonics and Optoelectronics Group

Centro Atómico Bariloche - CNEA - UnCuyo

Laboratory work with the pump-probe spectroscopic technique and massive experimental data analysis using Python. 🔗

Skills

Software: Python, Wolfram Mathematica, Tex, GitHub, C++, VSCode, Linux, Office

Maths: Modeling, Stochastic Processes, Statistics

Random: Chess, Piano

Languages

- Spanish: Native
- English: Intermediate

Presentations

Renzo Z., Alejandro K., **Propagation of infection/fire fronts on heterogeneous media.** *TREFEMAC*, May, 2022, La Plata, Argentina. 🔗

Courses

Data-driven modeling: neural networks, applications and tools. *TREFEMAC*, May, 2022, La Plata, Argentina.

Mathematical modeling of neural systems
TREFEMAC, May, 2022, La Plata, Argentina.