



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

Grade: 9.38/10

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

Instituto Balseiro - UnCuyo

Grade: 8.58/10

Historic average (2011-2021): 8.09/10

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

Facultad de Ingeniería - UnCuyo

Two years before applying to Instituto Balseiro.

## Languages

- Spanish: Native
- English: Intermediate

## Experience

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. 🔗

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++, VS-Code, Linux, Office, CUDA, SQL, Tableau

### Maths:

Modeling, Stochastic Processes, Statistics

### Others:

Chess, Piano

## Presentations

- **Wave fronts in reaction-diffusion equations on heterogeneous media** RAFA, September, 2022, S. C. de Bariloche, Argentina.
- **Propagation of infection/fire fronts on heterogeneous media.** TREFEMAC, Mayo, 2022, La Plata, Argentina.

## Courses

- **School on disordered elastic systems.** ICTP, Octubre, 2022, São Paulo, Brazil.
- **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.

Updated: February, 2023.