



Fernando Fetis Riquelme

Mathematical Engineer · MSc in Data Science

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WORK EXPERIENCE

United Nations — ECLAC

- **Professional Intern (2026—present)**. I contribute to the development of an internal artificial intelligence project at the [Economic Commission for Latin America and the Caribbean \(ECLAC\)](#).

CENIA · CIREN · University of Chile

- **Research Assistant (2026—present)**. We work on geo-foundation model research within a joint [CENIA—CIREN—UCH](#) initiative.

University of Chile

- **Adjunct Lecturer · Graduate School (2025—present)**. I teach the [Deep Generative Models](#) course in the [MSc in Data Science](#) program, covering topics ranging from LLMs and agents to diffusion models and flow matching.
- **Data Scientist · Data and Artificial Intelligence Initiative (2025—2026)**. I worked at [IDIA](#) as a data scientist and data engineer on two internal projects for the Ministry of Culture.

Rial AI

- **Researcher and Data Engineer (2025—2026)**. I worked at [Rial AI](#) on diffusion models and cloud-based agents for the structured generation of high-quality images.

Inria Chile

- **Research Assistant (2023)**. At [Inria Chile](#) we worked on optimizing neural architectures for PINNs using genetic algorithms guided by Gaussian processes.

EDUCATION

University of Chile — Mathematical Engineering

Undergraduate degree in applied mathematics with a specialization in machine learning and artificial intelligence. Graduated with *highest distinction*.

University of Chile — MSc in Data Science

Specialization in generative AI. Thesis on [Schrödinger bridges](#), a recent paradigm that generalizes diffusion models. Graduated with *highest distinction*.

University of Chile — MSc in Computer Science

Continuing my specialization in generative AI, with research on LLM interpretability (the symbolic-positional behavior of attention heads).

LANGUAGES

- **Spanish:** native.
- **English:** upper-intermediate (B2, TOEFL ITP).

ADDITIONAL INFORMATION

Academic background

- Scholarship recipient of the *Educational Program for Children and Youth with Academic Talents (PROENTA)* at Universidad de La Frontera.
- Top places for four consecutive years in the *Regional Mathematics Olympiad* and the *Regional Physics Olympiad*. Also top places (individual and team) in *El Juego de Aprender*, the *Applied Mathematics Olympiad*, and the *Inter-regional Mathematics Games*.
- Contributed to creating and reviewing problems for the *Regional Mathematics Olympiad* and to editing the annual olympiad problem book.
- Helped improve the teaching material of the [Machine Learning](#) course, extending the existing lecture notes and creating lecture slides.

Other activities

- I am writing a [generative AI blog](#) in Spanish, aiming to lower the language barrier in the field.
- I regularly implement papers as an ongoing personal exercise, which has given me a solid background in deep learning and generative AI.
- I volunteered teaching mathematics at Liceo Herbert Vargas Wallis (Santiago Penitentiary).