Federico Bello

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Summary

I am a Telecommunications Systems Engineer (UdelaR) specialized in signal processing. I currently work as a Machine Learning Engineer at Tryolabs, designing and deploying production ML systems. I also have experience as a Teaching and Research Assistant, teaching programming and conducting research on DNA storage in the Information Theory Group.

Experience

Tryolabs, Machine Learning Engineer   Montevideo, Uruguay
                                                                        Oct 2024 – Present
- Developed production-ready ML systems for international clients, covering end-to-end pipelines: data processing, model training, evaluation, and deployment.
- Contributed to internal initiatives including onboarding, technical interviews, and knowledge-sharing sessions.

UdelaR, School of Engineering (InCo), Teaching and Research Assistant   Montevideo, Uruguay
                                                                                 Feb 2023 – Feb 2025
- Taught and coordinated programming courses with 100+ students, delivering lectures and designing labs for Programming I (imperative programming, algorithm design) and Programming II (data structures, modularization, algorithm analysis).
- Collaborated in the Information Theory Group, contributing to research on DNA storage. Assisted with theoretical analysis, theorem proofs, and the publication.

Eagerworks, Junior AI Developer   Montevideo, Uruguay
                                                                        Feb 2024 – Oct 2024
- Led backend development for Docshunter, a document management and generation platform, building a reusable API.
- Authored technical blog posts and participated in technical interviews.

Sinapsis, Junior Developer   Montevideo, Uruguay
                                                                        Aug 2023 – Feb 2024
- Built web applications for risk analysis used by national and international banks.

Education

B.Sc., School of Engineering (UdelaR), Telecommunication Systems Engineering, Montevideo   Mar 2019 – Jun 2025
- Specialization in Signal Processing and Machine Learning.
- Thesis: *Time Series Anomaly Detection using Graph Neural Networks*, including development of the open-source framework GraGOD ⧉.

Studio Cambridge, Cambridge, England — Advanced English Course   Jan 2018

Publications

The Lattice-Input Discrete-Time Poisson Channel — IEEE ISIT, Athens, Greece   Aug 2024
Federico Bello, Álvaro Martín, Tatiana Rischewski, Gadiel Seroussi

Extra-Curricular Activities

GraduaDocentes — Volunteer teacher   2021
Colegio La Mennais — Student charity program   2015–2018

Languages

- **Spanish** — Native
- **English** — C2 Proficiency
- **German** — B1 (Goethe Institute, 2022–Present)