Luciana Munhos Fioravanzo

Master's student in Data Science (M2) - École Polytechnique, Institut Polytechnique de Paris

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EDUCATION

Master's degree (M2) in Data Science – Specialization in Applied Mathematics and Statistics   Since 2025
École Polytechnique, Institut Polytechnique de Paris Palaiseau, France
- Program focused on Deep Learning, advanced Machine Learning, large-scale data processing, and NLP (including Large Language Models), with modules in Computer Vision, Time Series, Graphs, and Explainable AI. Includes hands-on projects and a capstone project.

Master Diplôme d'Ingénieur   From 2024 to 2026
Télécom Paris, Institut Polytechnique de Paris Palaiseau, France
- Double degree between Télécom Paris and Universidad de la República (Uruguay). Specialization in Image Processing and Data Science.

Computer Engineering   From 2021 to 2026
Facultad de Ingeniería, Universidad de la República Montevideo, MO, Uruguay
- Diploma in Computer Analysis (2021–2023): Specialized in software development, computer systems analysis, and advanced mathematics.
- Strong background in algorithms, applied mathematics, optimization, numerical methods, databases, networks, and formal language theory.
- GPA: 9.64/10

WORK EXPERIENCE

Research Internship – MINA Research Group (Network Management and Artificial Intelligence)   2024 **(6 months)**
Facultad de Ingeniería, Universidad de la República Montevideo, MO, Uruguay
- Actively participated in the project SmartLab: A Programmable Network Lab Implemented with SmartNICs. Conducted experimental research on novel hardware platforms, learning to quickly understand and evaluate new systems. Independently designed and executed experiments to explore the platform's capabilities, including concurrency and system performance, analyzing results using a data-driven approach.

DISTINCTIONS

Recipient of the France Excellence Eiffel Program
- Scholarship awarded by the French government to pursue the Master's in Engineering program at Télécom Paris.
- Ranked among the top 3% of engineering students at Universidad de la República (Montevideo, Uruguay).

PROJECTS

- **Painting Classification: Figurative vs Abstract - Télécom Paris (2025)**
Classified paintings using ResNet50 variants (single-branch, two-branch, dense fusion), achieving around 90% macro F1-score.
- **Cardiac Pathology Prediction - IM05 Challenge, Télécom Paris (2025)**
Predicted cardiac conditions from CMRI images into five diagnostic classes using Random Forest with feature selection and segmented the left ventricle. Final model achieved high accuracy.
- **Inpainting of Microtextures - IM01, Télécom Paris (2024)**
Developed a Gaussian-based ADSN model for microtexture inpainting, explored effects of parameters on RGB, grayscale and complex textures.
- **Programming Workshop - TrabajoUY, Udelar (2023)**
Java project developing a job search platform, job postings, application management, server, database persistence, and desktop/web interfaces.

VOLUNTARY EXPERIENCE

Head of the Design Department – Bureau des Internationaux (BDI)   Since 2025
Télécom Paris, Institut Polytechnique de Paris Palaiseau, France
- Contributed to the integration of international students and designed visual materials and the association's graphic identity.

Volunteer Work and Community Engagement   From 2017 to 2020
Institutes Maturana and Juan XIII Montevideo, MO, Uruguay
- Educational and recreational activities with children, and community service projects in underprivileged neighborhoods and rural areas.

SKILLS

Programming Languages & Databases
- Python, Java, C/C++, Prolog/Problog, P4, SQL, PostgreSQL

Web Development
- HTML5, CSS, JavaScript

Data Science & AI
- PyTorch, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, NLP

LANGUAGES

Spanish
Native language

French
DELF B2 and B2+ Intensive Course, CAVILAM, Alliance Française (2024)

English
Cambridge C2 - CPE (December 2020)

Portuguese
B1 - Oral communication, comprehension

REFERENCES

Eduardo Grampín
Professor, Universidad de la República
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Arthur Leclaire
Associate Professor, Télécom Paris
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