Curriculum Vitae

Gastón Cisterna

Gastón Emanuel Cisterna

Quantitative & ML Problem-Solver

CONTACT

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LOCATION
Buenos Aires, Argentina

CITIZENSHIP
Argentina & Italy (EU)

MOBILITY
Open to global relocation & travel

QUANTITATIVE & ML METHODS

- Predictive modelling
- Classification methods
- Signal processing
- Monte Carlo simulation
- Statistical inference

DISTINCTIONS

- Erasmus Mundus Scholar (EU Commission, top ~5%)
- Balseiro National Merit Scholar
- M.Sc. GPA: 9.01 / 10
- Peer-reviewed publication, NIM A (2025)

TECHNICAL TOOLKIT

Languages: Python (pandas, NumPy, scikit-learn), C++, R, SQL, Bash.

ML & Data: PySpark, machine learning, statistical modelling, Monte Carlo simulation, signal processing.

Other: ROOT, LaTeX, MS Office.

LANGUAGES

Spanish (native) · English (C1, professional) · Italian (B1) · French (basic)

Gastón Emanuel Cisterna

Engineer | Quantitative Analyst | Applied Machine Learning

PROFILE

Engineer and quantitative analyst with strong foundations in physics, mathematics, and statistical modelling, trained at Argentina's most selective scientific institute (Balseiro) and a competitive European M.Sc. programme. Applied data analysis, predictive modelling, and machine learning across energy, scientific research, and industrial operations. Comfortable working with technical complexity, translating data into clear decisions, and adapting quickly to new domains.

PROFESSIONAL EXPERIENCE

Senior Analyst, Quantitative Modelling | AtkinsRéalis **2025 – Present**
Buenos Aires, Argentina | Global advisory & engineering firm

- Own end-to-end quantitative work for international utility clients: from input modelling and data preparation through simulation, validation, and interpretation of results for client-facing communication.
- Run high-stakes deterministic models and thermal-hydraulic simulations in highly regulated settings, where reliability, reproducibility, and auditable outputs are non-negotiable.
- Translate complex modelling outputs into structured arguments for mixed audiences—engineering reviewers, project managers, external regulators—under tight client deadlines.

Data Analyst | ExxonMobil **2021 – 2022**
Buenos Aires, Argentina | Fortune-10 oil & gas major

- Joined a Fortune-10 energy major to build analytics and business-facing modelling skills on top of an engineering foundation.
- Worked on data analysis and modelling tasks over operational data using Python, including exploratory analysis and predictive techniques; presented insights to non-technical stakeholders to support business decisions.

Researcher | Instituto de Física Corpuscular (IFIC, CSIC) **2024 – 2025**
València, Spain

- Worked on image reconstruction and high-dimensional data analysis, combining Monte Carlo simulation, signal processing, statistical inference, and machine-learning methods as part of the analytical toolkit.
- Designed Python pipelines for data preprocessing, model evaluation, and reporting; co-authored peer-reviewed publication in NIM A (2025).

Independent Quantitative Consultant | Self-employed **2020 – 2025**
Buenos Aires, Argentina | Project-based engagements

- Delivered quantitative analysis, financial modelling, and data-driven expert reports for law firms and SME clients across multiple industries; designed bespoke analytical workflows in Python tailored to each case.
- Translated technical findings into defensible conclusions for non-technical stakeholders, building reports and presentations that supported high-stakes decisions.

EDUCATION

M.Sc. Nuclear Physics | NUCPHYS Erasmus Mundus (EU Commission Scholarship) **2022 – 2024**
Spain · Italy · France | Final grade: 9.01 / 10 | Top ~5% admission rate
Specialised in Monte Carlo simulation, statistical modelling, and machine-learning methods applied to scientific instrumentation.

Nuclear Engineering, 5-year integrated programme | Instituto Balseiro **2015 – 2020**
Argentina's most selective scientific institute (B.Sc.+M.Sc. equivalent) | 8.08 / 10
Strong foundations in physics, numerical methods, statistical analysis, and engineering systems.