Ariel Luján Giamportone

Data Scientist / AI Specialist

CONTACT

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EDUCATION

Fisheries Engineer
Universidad Tecnológica Nacional (UTN) · 2006 – 2016

University Fisheries Technician
Universidad Tecnológica Nacional (UTN), Facultad Regional Río Grande (Extensión Áulica Ushuaia) · 2006 – 2014

MBA in Logistics and Operations Management (COO), university-specific master's
TECH Universidad Tecnológica · 01/2020 – 06/2024

Master's in AI Development
The BIG school · 04/2026 – 08/2026

Data Analytics — Computer Science
Upgrade Hub · 11/2023 – 02/2024

Diploma in Environmental Management
UTN FRRe (Facultad Regional Resistencia Chaco) · 2020

Diploma in Integrated Quality Management
UTN FRRe (Facultad Regional Resistencia Chaco) · 2019

LANGUAGES

Spanish — Native (C2)
English — Professional (B2-C1)
Italian — Professional (B2)

SKILLS

Machine Learning | Deep Learning | Pandas | LLM APIs (OpenAI, Anthropic, Gemini) | Ollama / modelos locales (deepseek-ocr, Llama, Qwen) | RAG / embeddings / ChromaDB | Python | SQL | R | Power BI | Tableau | Matplotlib / Seaborn

Engineer and data scientist with 10+ years applying data analysis, machine learning and IoT in R&D, industry and consulting. I build predictive models, automated data pipelines and applied AI solutions. Background in scientific research with peer-reviewed publications and in business settings with measurable impact (ML models for physical-to-accounting asset reconciliation, analysis automation). Currently focused on data strategy and digital transformation.

EXPERIENCE

Founder and Community Lead 01/2026 – Present
Pesqueros en IA · Argentina / International (online community)

- Founded and lead the PesquerosEnIA community (github.com/PesquerosEnIA)
- Built the ML and Deep Learning course for Fisheries Engineering (Jupyter, open source)
- Taught the pre-congress data and AI literacy course at CONIPE 2025, Puerto Madryn

Data, AI & Product · Technology Department (IT & Innovation) 06/2025 – Present
Intervalor Data · Madrid and Barcelona, Spain (hybrid)

- Designed and built INTERDATA, a fixed-asset SaaS for companies: schema-per-tenant, MFA, hash-chained audit log, QR-verifiable PDF certificates and a depreciation engine that matches the legacy system to the cent
- Put into production the commercial-controls dashboard for AENA at Madrid-Barajas Airport (Azure Static Web Apps + Entra ID, incremental pipeline over a third-party API, 99.95% SLA) and automated its monthly and annual reports (121 tests)
- Modernised a 1990s Delphi/Paradox fixed-asset system into Python with numerical parity to the cent (544 tests, 99.97% of rows migrated)

Data Science & AI Researcher 03/2025 – 06/2025
Mainly Labs · Zamora, Castile and León, Spain (on-site lab, weekly travel from Talavera de la Reina)

- MICEGEL (biodegradable fire-extinguishing microspheres from agricultural waste): Project Manager with Scrumban; Sprint 1 closing report (05/2025) and handover guide for the next PM (06/2025)
- NEOTEC (CDTI): co-wrote the technical proposal (v1.3 to v1.5) and the asset budget for an intelligent battery fire detection and suppression system with an AI component
- Battery fire tests: instrumentation with thermocouples, smoke and gas sensors, microcontrollers and reading of the client's BMS (CAN/RS485)

Inventory Audit Technical Specialist and Data Analyst 10/2024 – 02/2025
Intervalor Data (Intervalor Consulting Group) · Madrid, Spain

- Coordinated field teams at EUIPO and AENA, working two back-to-back shifts to maximise productivity
- Produced daily and weekly reports for data-driven decisions
- Proposed automation and AI integration to improve operational efficiency

Monitoring and Cold-Chain Engineer (ANMAT licensing) — external consultant 03/2020 – 08/2021

Celentano Group — Patagonia Supply S.A., Integrar Salud division (Ushuaia) · Ushuaia, Tierra del Fuego, Argentina

- Sized, installed and configured 13 temperature and humidity measurement points (8 combined controllers, 1 refrigeration controller, 1 data logger and 4 alarm controllers) with central monitoring and alerts over four channels
- Managed traceable calibration: first at the Tierra del Fuego technology centre (10 certificates, 05/2021) and, after ANMAT's review, at an INTI-SAC accredited laboratory (10 certificates, 07/2021)
- Wrote the technical and regulatory documentation submitted to ANMAT: floor plans, SOPs for calibration, storage and alarms, deviation log, qualification charts and response to findings

SELECTED PROJECTS

cfp-audit-intelligence · 11/2025 – 08/2026
Multi-LLM RAG platform (OpenAI, Anthropic) to audit the minutes of Argentina's Federal Fisheries Council: FastAPI, Streamlit, ChromaDB, open data and responsible AI.

fisheries-sustainability-mlops · 02/2026
End-to-end MLOps with deep learning and Bayesian networks for fisheries sustainability.

catastro-enrichment-es · 11/2026
Enrichment of real-estate inventories with Spain's five cadastres (national DGC and the regional ones of Álava, Bizkaia, Gipuzkoa and Navarre) behind a single interface routed by municipality code; Nominatim geocoding as fallback ...

periodic-report-kit · 11/2026
Declarative periodic reports: tabular input with domain rules (unknown rows quarantined) and branded Word, PDF and PPTX output. Full-bleed cover outside the page numbering, a real Word table of contents, YAML catalogue of sections ...

PEER-REVIEWED PUBLICATIONS

- Sotelano, M.P.; Lovrich, G.A.; Di Salvatore, P.; Florentín, O.; Giamportone, A.L.; Tapella, F. (2018). Suspended mesh-bags enclosures for Southern King Crab Lithodes santolla (Molina 1782) larvae and juvenile culture in the sea. *Aquaculture* 495, 575-581. doi:10.1016/j.aquaculture.2018.06.030
- Martín, J.; Puig, P.; Palanques, A.; Giamportone, A. (2014). Commercial bottom trawling as a driver of sediment dynamics and deep seascape evolution in the Anthropocene. *Anthropocene* 7, 1-15. doi:10.1016/j.ancene.2015.01.002

Projects with demos, publications and the full track record at https://arielgiamportone.github.io/en/profiles/ai/