## 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

IoT / Sensores · GIS · MATLAB · Machine Learning · Deep Learning · Pandas · Agile / Scrum · Kanban / Scrumban · Trello · Python · SQL · R

# Ariel Luján Giamportone

### Applied AI Engineer · Blue Economy & Marine Technology

Fisheries Engineer (UTN) and applied AI engineer with 7 years at CONICET-CADIC (aquaculture, oceanography, surveys in Patagonia and Antarctica) and publications in Aquaculture and Anthropocene. I combine marine science with Python, deep learning, Bayesian networks, MLOps and IoT (KIPPA I ROV, Arduino/ESP8266 sensors). Founder of the PesquerosEnIA community and lecturer-researcher in Fisheries Engineering. A good fit for blue economy, precision aquaculture, environmental monitoring and Horizon Europe consortia.

## 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

**Visiting Professor (ad honorem) / Lecturer-Researcher** 05/2023 – Present
National Technological University (UTN) - Tierra del Fuego · Ushuaia, Argentina (remote)

- Lead R&D&I projects on problems of the provincial, regional and national fishing sector
- Director of research project PAPPTF0009884 (freeze-drying of food), 04/2023 – 03/2026 with extension
- Supervised 3 R&D scholarship students (2024-2025) and co-supervised 2 CONICET technicians (2019, 2020)

**R&D Director and Project Manager** 01/2022 – Present
Applied Chemistry for the Environment, Food and Sustainable Development (QA3DS) · Argentina

- Directed an R&D project using Agile, Kanban and Scrum
- Trained 4 researchers and 7 student researchers
- Processed the group's bibliographic and experimental data for talks, preprints and joint publications

**Alternate Representative, Department of Fisheries, Aquaculture and Maritime Activities** 02/2021 – Present
Association of Engineers of Tierra del Fuego Province · Ushuaia, Tierra del Fuego, Argentina

- Promoted ethics and professionalism in aquaculture and fisheries engineering
- Proposed regulatory improvements to raise quality standards in the industry
- Facilitated agreements with other professional associations and universities

**Member (by invitation)** 01/2020 – Present
AIIPyC — International Association of Port and Coastal Professionals

- Managed the AIIPyC – UTN Tierra del Fuego collaboration agreement, signed on 16/09/2020 (Short Sea Shipping, cabotage, ports)

## SELECTED PROJECTS

**trawlkit · Trawl Design Lab** · 2024 – Present
Calculation engine for the design and sizing of trawl nets: an evolution of the FAO A-3 spreadsheet model for 150-180 HP vessels in the Beagle Channel, rebuilt as reproducible, tested software.

**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.

**KIPPA I — ROV with open hardware and software** · 2015 – 2016
Remotely operated underwater vehicle built entirely with open hardware and software and locally sourced materials, to inspect hulls, gear, propellers and rudders of small fishing vessels. Presented at the 9th National Congress of ...

## 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/blue-economy/