



Gaston Mazzei

Nationality: Argentinian

Date of birth: 15 Sep 1995

Gender: Male

✉ **Email address:** gastonmazzei95@gmail.com

🌐 **Website:** gastonmazzei.github.io

📍 **Address:** Palaiseau (France)

WORK EXPERIENCE

Network Automation Engineer

Iquall Networks Inc. [Jan 2021 – Sep 2021]

City: Buenos Aires

Country: Argentina

As a Network Automation Engineer at [Iquall Networks](#) my role was to design, implement and test via numerical simulations several algorithms using Python and C++ in order to provide automated solutions to international telecommunication companies inside the company's cutting-edge proprietary software, which includes an open-source ecosystem.

Research Intern - AI applied to Physics

International Center for Advanced Studies [Mar 2020 – Dec 2020]

City: Buenos Aires

Country: Argentina

Research internship carried out at [ICAS](#) (International Center for Advanced Studies, an institute partially devoted to applying AI in Physics). As a final stage for the MSc Physics degree, numerical simulations of physical systems were carried out, and Neural Networks were trained to learn them. As part of the output, generic neural networks are now publicly available via [ai-friendly.com](#).

Data analyst

Kosten Aike Hotel [Nov 2018 – Dec 2019]

City: El Calafate

Country: Argentina

Part-time data analyst at one of the best and oldest four-star hotels in the Argentine southern Patagonian town of "El Calafate". Relevant metrics such as occupation, per capita consumption, and the carbon footprint were reported on a monthly basis to executives.

Research Intern - Experimental Physics

CNEA - LEC [Sep 2017 – Jun 2018]

Undergraduate research internship at [CNEA-CAC](#) (Argentina's National Atomic Energy Commission) and [LEC-UBA](#) (Argentina's Quantum Electronics Laboratory). A microfluidic chip was designed and manufactured to study yeast cell's membrane.

EDUCATION AND TRAINING

MSc - Quantum, Parallel and Distributed Computer Science

Université Paris-Saclay [Sep 2021 – Current]

Address: (France)

Currently holder of a "Quantum Technology" French government scholarship, in correspondence with the postgraduate (M1+M2) studies of Quantum, Distributed, and Parallel computing.

BSc + MSc - Physics

University of Buenos Aires (UBA) [Mar 2015 – Dec 2020]

Address: (Argentina)

Final grade : 8.2/10

6-year degree; internationally equivalent to a MSc Physics degree and formally known in Spanish as "Licenciatura en Ciencias Físicas". The [University of Buenos Aires](#) is a 200-year-old university that ranks 61 in the QS world ranking 2021 (transcripts: [original](#) & [translated](#); thesis on [YouTube](#))

BSc - Experimental Physics

University of Buenos Aires (UBA) [Mar 2015 – Jul 2020]

Address: (Argentina)

Final grade : 8/10

degree title "Physics Research Assistant" awarded by the [University of Buenos Aires](#) in 2020. Internationally it could be equivalent to a **Bachelor in Experimental Physics** ([transcript](#); grade: 8/10)

PUBLICATIONS

AI-Friendly.com: Artificial Intelligence Made Friendly

[2021]

A free tool for high-level machine learning courses in highschools: an open source website that allows to perform binary classification without cost using a customizable neural network (accepted at "XXI ASAI - JAIIO 50 (2021)", i.e. the 22nd Argentinian Symposium of Artificial Intelligence at the 50th Argentine Journal of Informatics and Operational Research - [sample](#)).

Image Inpainting Applied to Art: Completing Escher's Print Gallery

[2021]

Image Inpainting applied to M.C. Escher's Print Gallery at Proceedings of LatinX in AI's Journal (JLXAI): a research workshop that was part of ICML 2021 (July 2021 - [link](#), DOI pending)

Delta Hedging with Transaction Costs: Dynamic Multi-Scale Strategy using Neural Nets

[2021]

A portfolio strategy is parametrized by hedging at different periods and computing the weights with a convolutional 1D neural network (published in MACI VIII; the journal of the Argentinian Society of Applied Mathematics; [ISSN: 2314-3282 pp. 459-462](#))

Option Pricing Model with Transaction Costs

[2017]

Numerical simulations of the Black Scholes PDE with non-differentiable transaction costs and the analytical solution for exponential costs (published in MACI VI; the journal of the Argentinian Society of Applied Mathematics; ISSN: 2314-3282 pp. 569-573).

LANGUAGE SKILLS

Mother tongue(s):

Spanish

Other language(s):

English

LISTENING C2 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1