



**Gaston  
Mazzei**

**DATE OF BIRTH:**

15 Sep 1995

## CONTACT

**Nationality:** Argentinian,  
Italian

**Gender:** Male



Argentina



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## WORK EXPERIENCE

**11 JAN 2021 – CURRENT** – Buenos Aires, Argentina

### **Network Automation Engineer**

Iquall Networks Inc.

As a Network Automation Engineer at Iquall Networks my role is to design implement and test algorithms using Python in order to provide automated solutions to international telecommunication companies inside proprietary software that consists of an open-source ecosystem.

**28 JAN 2020 – 27 NOV 2020** – Buenos Aires, Argentina

### **Research Internship (Master)**

ICAS

ICAS is the International Center for Advanced Studies. Under the research internship AI-Friendly was built (Masters' thesis)

**1 NOV 2018 – 1 NOV 2019** – El Calafate, Argentina

### **Data Analytics / Business Intelligence (part-time consultant)**

Kosten Aike Hotel

Part Time Business Intelligence (or Data Analytics) consultant (freelance) for a four-star hotel in the Argentinian southern Patagonia: metrics such as occupation and per capita consumption were computed on a monthly basis along with an estimation of the hotel's carbon footprint in an attempt to improve its eco-friendliness.

### **Research Internship (Bachelor)**

CNEA - LEC (National Atomic Commission and Quantum Electronics Laboratory)

Undergraduate research internship at CNEA-CAC (National Atomic Energy Commission) and LEC-UBA (Quantum Electronics Laboratory); a microfluidic device was designed and manufactured in order to trap yeast cells and study their cell membrane

## EDUCATION AND TRAINING

**JUL 2021**

### **Quantum Information (courses)**

Department of Computer Science - University of Buenos Aires (DC-UBA)

Three courses [1,2,3] covering the Quantum Information track at the 34th Informatics Winter School of the Department of Computer Science at University of Buenos Aires (*incoming! last week of July 2021*)

**5 JUL 2021 – 16 JUL 2021**

### **Geophysical Fluid Dynamics in FORTRAN (course)**

French-Argentine Institute of Climate Studies (IFAECI)

An introductory course to FORTRAN programming with emphasis in parallelization and fluid mechanics libraries. The course was provided by the French-Argentine Institute of Climate Studies (IFAECI) and the Department of Oceanic and Atmospheric Sciences of the University of Buenos Aires (DCAO-UBA) (code - *certificate is pending*)

**22 MAR 2015 – 19 MAR 2021** – Ciudad Autonoma de Buenos Aires, Argentina

## Master Degree in Physics

University of Buenos Aires (UBA)

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](#))

8.2/10

11 MAR 2015 – 28 AUG 2020

## Bachelor in Experimental Physics

University of Buenos Aires (UBA)

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**; as it is an intermediate degree for the MSc Physics degree and it is awarded after taking extra optional experimental courses ([transcript](#); grade: 8/10)

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JUN 2016 – JUL 2021

## Computer Science & Mathematics (courses)

DC-UBA, DM-UBA, IC-UBA & ICAS-UNSAM

**DC-UBA** (Department of Computer Science, Buenos Aires University)

- Image Processing - 2021 [1]
- Management of Software Projects - 2021 [2]
- Algorithms and Data Structures I - 2021 [3]

**DM-UBA** (Department of Mathematics, Buenos Aires University)

- Quantitative Financial Analysis - 2017 [4] (grade: 10/10)
- Mathematical Models of Complex Social Systems - 2016 [5]

**ICAS-UNSAM** (International Center for Advanced Studies, Saint Martin University)

- Machine Learning - 2020 (grade: 8/10)

**IC-UBA** (Institute of Calculus, Buenos Aires University)

- Exploratory Data Analysis - 2018 [6] (grade: 10/10)

## PUBLICATIONS

### AI-Friendly.com: Artificial Intelligence Made Friendly

2021

Open source website that allows to perform binary classification for free with a customizable neural network. It was built as part of the research internship at the International Center for Advanced Studies and it is proposed as a useful tool in high-level machine learning courses (submitted to the "XXII Simposio Argentino de Inteligencia Artificial (ASAI) - JAIIO 50 (2021)", i.e. the 22nd Argentinian Symposium of Artificial Intelligence - [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 the LatinX in AI (LXAI) Research workshop at ICML 2021 (accepted - July 2021 - [sample](#))

### 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 (accepted and will be published in May 2021 in MACI VIII; the journal of the Argentinian Society of Applied Mathematics; [paper](#))

### 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; [paper p.569-573](#))

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Spanish

**OTHER LANGUAGE(S):**

**English**

<b>Listening</b> C2	<b>Reading</b> C1	<b>Spoken production</b> C1	<b>Spoken interaction</b> C1	<b>Writing</b> C1
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**French**

<b>Listening</b> A2	<b>Reading</b> A2	<b>Spoken production</b> A2	<b>Spoken interaction</b> A2	<b>Writing</b> A1
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**Italian**

<b>Listening</b> A1	<b>Reading</b> A2	<b>Spoken production</b> A2	<b>Spoken interaction</b> A2	<b>Writing</b> A1
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