

JOSE AGUSTIN BARRACHINA

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EXPERIENCE

ONERA

PhD Thesis at Ecole CentraleSupélec

📅 October 2019 - Currently enrolled 📍 Paris, France

- Complex-Valued Neural Networks for PolSAR applications.

CNRS

Laboratory of Subatomic Physics & Cosmology

📅 September 2018 - March 2019 📍 Grenoble, France

- Fast electronics & data acquisition for Mimac-FastN

Cisco Systems

Service Provider for AMX

📅 November 2017 - April 2018 📍 Buenos Aires, Argentina

- Software System Engineer Intern

Intituto Tecnológico de Buenos Aires

Neural Networks teaching assistant

📅 August 2017 - December 2017 📍 Buenos Aires, Argentina

- Teaching assistant the course Neural Networks where several lectures were given, corrected exams and works and helped with the organization of the course itself.

SOFTWARE PROJECTS

CVNN

Complex-Valued Neural Networks tool for Python

📅 October 2019 - Currently supported

Library to help implement a complex-valued neural network (cvnn) using tensorflow as back-end

Anime DCGAN

AI using a Deep Convolutional Generative Adversarial Network

📅 July 2018 - August 2018

Anime faces generation AI programmed on Python

LipSync

Voice processing Python project with GUI

📅 August 2017 - December 2017

Implementation of a Recursive Neural Network (RNN) to detect phonemes on an speaking audio & other voice processing techniques

Forbidden Desert

C++ Project with GUI (Over 7k lines of code)

📅 August 2015 - December 2015

Videogame implementation of *Forbidden Dessert*, a 2 player board game playable over LAN connection

EDUCATION

ITBA

Electronic Engineering focus on Signal Processing

📅 March 2012 - July 2018

Performance: 7.14 / 10 (top 2 over 26)

École Polytechnique

International Exchange Program

📅 Sept 2016 - March 2017

COMPETITIONS



Hackathon J.P. Morgan - ITBA

3rd prize over 20 participants



ITBA electronics exhibition

3 times participant awarded by several companies as the best project



IEEEExtreme 24-Hour Programming Competition

- IEEEExtreme 11.0 position 391 over 3350 (percentile 88)
- IEEEExtreme 9.0 position 275 over 2035 (percentile 86)
- IEEEExtreme 8.0 position 536 over 1853 (percentile 71)



IEEEExtreme Practice IEEE - ITBA

position 2 over 15 (percentile 87)



Argentinian Math Olympiad

Participation many years in a row

PROGRAMMING

Java

Python

Matlab

C/C++

VHDL

Assembly

OCaml



LANGUAGES



Spanish

Native



English

- C1 CAE Cambridge
- TOIEC score: 940 / 1000



French

- A2 French Alliance (DELF)
- B2 TCF