Dr. Eng. BARRACHINA, J. Agustin

Machine Learning | Signal Processing

\(+33 07 66 10 78 33

✓ JoseAgustin.Barra@gmail.com

negu93.github.io

盏/5931672/agustin-barrachina

NEGU93 in /in/jose-agustin-barrachina (i) /0000-0002-2139-514X

/profile/Jose-Agustin-Barrachina

I am a Ph.D. Engineer looking for work in the fields of AI / Machine Learning doing development (not research). Preferably in Paris. I would like to work in a development team and learn about team working strategies like Agile, Sprints, etc.

EXPERIENCE

PhD Thesis

Complex-Valued Neural Networks for Radar Application

₩ Oct 2019 - Present

Paris, France

Machine Learning for radar applications. At CentraleSupélec, 50-50% shared scholarship from DGA and ONERA. Please refer to Publications and Repository sections for more information.

Python Tensorflow









Fast Electronics Internship

₩ Sep 2018 – Mar 2019 Grenoble, France Optimized the data acquisition sample rate for Mimac-FastN github.com/NEGU93/CYUSB3KIT-003_with_SP605_xilinx

VHDL



Software System Engineer Intern

 Nov 2017 - Apr 2018 Service Provider for AMX (Claro)

CCNA



Summer Internships

描 Jan 2016 − Feb 2016

Bariloche, Argentina







REPOSITORY

github.com/NEGU93/cvnn

🛨 62 stars 🧿 6 watching 🦞 16 forks 🚯 30 Reported Issues

Toolbox for implementing Complex-Valued Neural Networks using Tensorflow as backend. Imported in 2 repositories within GitHub and 50 views per day on average (Sep 2022); +190 anaconda and 24 Zenodo downloads; Installable with PIP and Anaconda; Documented with ReStrucutred Text (online in Read the Docs); Tested with pyTest; Subject of 31 personal emails.

Buenos Aires, Argentina

PUBLICATIONS

7 Publications (9 counting submission not yet accepted): 1 Journal at Springer, 4 International IEEE conferences (ICASP, IGARSS, MLSP, ICIP), 1 national conferences (GRETSI), 1 Workshop (SONDRA). 2 submitted papers to Journals. 5 citations excluding my own references.



3MT IEEE GRSS Excellence in Technical Communication Student Prize Award finalist University of Queensland.



Reddit r/MachineLearning – WAYR (What are you reading). Most upvoted paper week 116.



Ranked top 15% reviewer score on IEEE MLSP 2021 publication.

TEACHINGS

Fig. 10 Sep 2019 – Oct 2019

Python

Tenured Professor. Digital Signal Processing.

Cct - Dec 2019, 2020 & 2022 Ecole Polytech Paris-Sud

Teaching assistant. Introduction to Python IUT Orsav Neural Networks

C/C++

EDUCATION

ITBA

Italian - Argentinian

Electronical Engineering Focus on Signal Processing

Academic performance: 7.14 / 10 (top 2 over 26)

2 / 26 (top 95%) Ranking

Ecole Polytechnique

International Exchange Program Academic performance: 16.84 / 20



itba

COMPETITIONS

Hackathon JPMORGAN CHASE & CO.

3rd prize over 20 participants

3 / 20 (top 90%)

*Note: Only team on top 3 without a software eng

IEEEXtreme 24-Hour Programming Competition

Edition Performance

15.0 313 / 5561 (top 94%) 11.0 391 / 3350 (top 88%)

275 / 2035 (top 86%) 9.0

536 / 1853 (top 71%) 8.0

*Note: editions 11.0 and 15.0 I participated alone (normally it is in teams of 3)

ITBA electronics exhibition

3 times participant awarded as best project by several companies including Schneider Electric

IEEEXtreme Practice IEEE - ITBA

Rank 2 / 15 (top 93%)

Invictus in the Argentinian Math Olympiad (OMA). Several times participant.

PROGRAMMING

Java Python Matlab C/C++ VHDL Asm github.com/NEGU93/negu93.github.io

(JavaScript, TypeScript, Angular, HTML, CSS)

.ANGUAGES

Spanish Native

English Cambridge CAE C1 | TOIEC 940 / 990

French DELF A2 | TCF B2

ITBA Tensorflow Python

ASM