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Machine Learning | Software Developer | Signal Processing

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I am a Ph.D. Engineer looking for a job as a Software Developer in the fields of AI / Machine Learning.

NEGU93

Preferably based in Paris/Ile-de-France or remote. I value teamwork and related strategies such as Agile methodology.

EXPERIENCE

PhD in Machine Learning

Complex-Valued Neural Networks for image applications

Oct 2019 - Nov 2022 7+ publications.

Paris, France

Open-source repository with 460+ PIP and 200+ anaconda downloads, and 65+ GitHub stars between other metrics.

Python Tensorflow



THE FRENCH AFROSPACE LAB





Fast Electronics Internship

置 Sep 2018 – Mar 2019

Optimized the data acquisition sample rate for Mimac-FastN github.com/NEGU93/CYUSB3KIT-003 with SP605 xilinx

VHDL



Software System Engineer Intern Buenos Aires, Argentina

₩ Nov 2017 – Apr 2018

Service Provider for AMX (Claro)

CCNA



Summer Internships

描 Jan 2016 − Feb 2016









REPOSITORY ogithub.com/NEGU93/cvnn



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); 200+ anaconda, 460+ PyPI 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.

PUBLICATIONS

7 Publications (9 counting submission not yet accepted): 1 Journal at Springer + 2 submitted papers to Journals, 4 International IEEE conferences (ICASP, IGARSS, MLSP, ICIP), 1 national conferences (GRETSI), 1 Workshop (SONDRA). 24 citations.



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

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++

Python

Tensorflow

ITBA

ASM

EDUCATION

ITBA

Master in Engineering Focus on Signal Processing



• Italian - Argentinian

Academic performance: 7.14 / 10 (top 2 over 26) 2 / 26 (top 95%) Ranking

Ecole Polytechnique

International Exchange Program Academic performance: 16.84 / 20



COMPETITIONS

Hackathon JPMORGAN CHASE & CO. 3rd prize over 20 participants

- 2019 3 / 20 (top 90%)

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

IEEEXtreme 24-Hour Programming Competition Edition Performance

- 2021 313 / 5561 (top 94%)

- 2017 391 / 3350 (top 88%) - 2015 275 / 2035 (top 86%)

- 2014 536 / 1853 (top 71%)

*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

Ψ IEEEXtreme Practice IEEE - ITBA

- 2017 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)

LANGUAGES

Spanish Native

English Cambridge CAE C1 | TOIEC 940 / 990

French DELF A2 | TCF B2