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Machine Learning | Signal Processing

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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.

NEGU93

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



in /in/jose-agustin-barrachina







Fast Electronics Internship

篇 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

Buenos Aires, Argentina ₩ Nov 2017 – Apr 2018 Service Provider for AMX (Claro)

CCNA



Summer Internships

描 Jan 2016 − Feb 2016









REPOSITORY

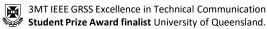
github.com/NEGU93/cvnn

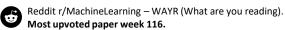
🛨 62 stars 🧿 6 watching 🦞 16 forks 🚯 30 Reported Issues

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.

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.





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++

Python

Tensorflow

ASM

ITBA

EDUCATION

ITBA

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



iTβA

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%)

*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)

LANGUAGES Spanish Native English Cambridge CAE C1 | TOIEC 940 / 990 French DELF A2 | TCF B2