

GABRIEL

RUDLOFF BARISON



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ABOUT ME

Data scientist with a strong foundation in electronic engineering and focus on machine learning research. Bachelor's and Master's degrees in Electronic Engineering. Master's focused on machine learning and advanced signal processing, with research in applying deep learning to fiber optic sensors. Solid understanding of deep learning, classical machine learning, and computer vision techniques. Curiosity and thirst for knowledge are my main drive. Analytical mindset, attention to detail, and obsession with solving complex problems.

EXPERIENCE

SOFTWARE DEVELOPER INTERSHIP

Jan. 2020 -
Apr. 2020

Inria | Lille, France

Development of an open source machine learning python package. Resolve issues and propose new features through pull requests. Main contribution was the implementation of sparse compositional metric learning [link].

DEVELOPMENT ENGINEER INTERNSHIP

Jan. 2019 -
Apr. 2019

Kauel | Santiago, Chile

Web development, 3D reconstruction from images, AI R&D and the development of an IoT project. Main role on IoT project, implementing requirements and dealing directly with the client.

EDUCATION

B.S. IN ELECTRONIC ENGINEERING

2014-2020

Universidad Técnica Federico Santa María | Valparaíso, Chile
(Mention in computers, submention in telecommunications)

M.S. IN ELECTRONIC ENGINEERING

2020-2023

Universidad Técnica Federico Santa María | Valparaíso, Chile
(Specialty in Telecommunications and Signal Processing)

Application of artificial intelligence in the context of fiber optic sensors., Thesis topic: "Peak detection of spectrally-overlapped fibre Bragg gratings using an unsupervised convolutional neural network autoencoder"

PUBLICATIONS

Articles

Gabriel Rudloff and Marcelo A. Soto (2023). "Peak detection of spectrally-overlapped fibre Bragg gratings using an autoencoder convolutional neural network". In: *European Workshop on Optical Fibre Sensors (EWOFS 2023)*. DOI: 10.1117/12.2679924.

ACHIEVEMENTS

Awards

- Academic Merit (2014-2017)
- 2nd place in FEUTFSM Environmental Ideas 2015

SKILLS

Programming Languages

● ● ●

Python, C/C++

● ● ○

SQL, Bash, \LaTeX , HTML

● ○ ○

Matlab, Assembly, Java, Verilog, Javascript

Frameworks, Libraries & Technologies

● ● ●

Numpy, Pytorch, Pandas, Sklearn, Matplotlib

● ● ○

Git, Tensorflow, Pytest, OpenCV

● ○ ○

PySpark, Altium Designer, Vrep

Languages

- Spanish (Native)
- English (Full professional proficiency)
- French (Basic)

Hobbies

- Guitar & piano
- Boulderling - Biking - Surfing

CONTACT INFO

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