

João P C Bertoldo

25, Brazilian joaopcbertoldo.github.io (+33) 06 25 51 62 57 joao.bertoldo@mines-paristech.fr

D0000-0002-9512-772X

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March, 2021

EDUCATION

MSc in Artificial Intelligence, Systems, Data (IASD) (a) 2019 - 2020

Paris-Dauphine – PSL University

Paris, France

Subjects: Machine Learning, Deep Learning, Optimization, Image Analysis.

MSc in Executive Engineering (b) | Minor: Data Science

2017 - 2020

MINES ParisTech - PSL University

Paris, France

Subjects: Software Engineering, Databases, Probability, Statistics, Operations Research.

Mechatronics Engineer (5-year degree) (c)

2013 - 2020

University of São Paulo (USP)

São Carlos, Brazil

Obtained a 1-year scholarship for an international exchange at the University of Valenciennes (France).

Teaching assistant (6 mos.): conducted workshops on numerical analysis using MATLAB.

WORK EXPERIENCE

Research Intern (6 mos.) / Research Engineer (since Mar. 2021) (d)

since Sep. 2020 (6 mos.)

MINES ParisTech - PSL University

Évry (Parisian region), France

Working on 2D/3D X-ray tomography segmentation with U-Nets [unet, unet3d].

Talked at a seminar at MINES ParisTech, the Journée ISS France, and the week-course CVML 2021.

Research & Development Intern (e)

2020 (5 mos.)

Paris, France

Evaluated explainability methods [lime, anchors, shap] on layperson-maintained NLP models (classification task).

Data Scientist Intern (f)

2019 (7 mos.) New York, USA

Analyzed and developed algorithms for time series, tag analysis, and a knowledge graph.

Software Engineer Intern (g)

2018 – 2019 (8 mos.)

Kelda Drilling Controls

Porsgrunn, Norway

Modeled and designed a time series annotation tool for supervised machine learning.

PROJECTS

Mindsay

Datadog

tomo2seg (d) Tomography segmentation with deep learning (since Sep. 2020) [tomotoseg].

pymdr (a) Implementation of liuMiningDataRecords2003 [liuMiningDataRecords2003] in Python (1 mo.) [pymdr].

Sunlight simulator (b) Head of the project; developed a 3D motion simulator in Python (9 mos.) [sunlight].

Smart coffee machine (c) Developed a web server in .NET (C#) and an Arduino controller (C++) (4 mos.) [smartCoffee].

SKILLS & PERSONAL INTERESTS

English (C1): fluent, worked in English speaking companies for 1 year, obtained TOEFL 117/120 (2020).

French (C2): fluent, read subjects in French for 3 years, worked in French organizations for 1 year.

Portuguese: native.

Programming:

Python (d-g) (NumPy, SciPy, Matplotlib, Pandas), MATLAB (c), Java (b), JavaScript (React, Redux) (g).

Databases MongoDB (g), InfluxDB (g), PostgresSQL (b).

Deep learning TensorFlow (d), Keras (d).

Prototyping Streamlit (e), Jupyter Lab (d-e), Jupyter Notebook (f-g).

Others ImageJ (d), Avizo (d), GitLab (f), Git (f-g), Bash (f-g), Docker (g).

Writing and content creation: Google Suite, LaTex, Markdown.

Personal interests: skydiving, podcasts (especially about politics), has been in 18 countries.