

CURRICULUM VITÆ - João GALEGO

✉ jgalego1990@gmail.com | 🔗 linkedin.com/in/jgalego | 🌐 jgalego.github.io

I am a certified Physics nerd and an amateur forensic scientist with a keen interest in challenging problems with real-world applications. Over the years, I've worked as a data analyst, software tester, test automation engineer, DevOps engineer and ML consultant for several companies, in areas ranging from market research to fiber optic telecommunications and mobility. Currently, I work as a DevOps engineer and ML consultant at the Siemens Lisbon Tech Hub, while pursuing a PhD degree in Cognitive Science at Universidade de Lisboa. My research focuses on the application of ML algorithms to improve the performance of EEG-based brain-computer interfaces.

PROFESSIONAL EXPERIENCE

Siemens

2019 – Present

DevOps Engineer / ML Consultant

- Cloud solutions architect and administrator for 10+ applications running on AWS and Azure
- Lead contributor to 200+ Ansible roles, Terraform modules and Docker images
- Organized workshops and trainings on DevOps, AI/ML and quantum computing
- Performed technical assessment in 20+ interviews
- Supervised 10+ interns and trainees
- Junior member of the IT Key Experts program (Data-driven Enterprise & Augmented Intelligence)
- SITEX class of 2021 working on Industrial Edge platforms and applications
- Member of DI IT Architecture Guild

Innowave

2017 – 2019

DevOps Engineer

- Designed and implemented test frameworks and automated tests for multiple projects and customers
- Organized internal and customer-oriented workshops and trainings on CI/CD, DevOps and test automation
- Served as technical writer and reviewer working together with software architecture teams

Coriant

2014 – 2017

Test Automation Engineer

- Increased test automation coverage by 5-fold in less than 2 years
- Managed a Jenkins cluster with 20+ build agents

EDUCATION

Universidade de Lisboa

2017 – Present

PhD Cognitive Science

- **Title:** *From Thought to Action - Machine Learning Techniques for Processing Electrophysiological Signals in Brain-Computer Interfaces*
- **Advisors:** Prof. Hugo Ferreira (IBEB/FCUL), Prof. Arlindo Oliveira (INESC/IST)
- **Keywords:** brain-computer interfaces, EEG, biosignal processing, riemannian classification, deep learning

Instituto Superior de Ciências Sociais e Políticas

2016 – 2017

PgD Forensic Studies

Instituto Superior Técnico

2008 – 2013

MSc Physics

- **Title:** *Flavour Aspects of Multi-Higgs Models* | **Grade:** 19/20
- **Advisors:** Prof. Gustavo Castelo Branco (CFTP/IST)
- **Keywords:** standard model, CP violation, discrete groups, flavour symmetries, multi-Higgs doublet models

CERTIFICATIONS



AI Product Manager Nanodegree

Udacity

2021

Self-Driving Car Engineer Nanodegree

Udacity

2021

AWS Certified Machine Learning - Specialty

Amazon

2020

Fundamentals of Digital Marketing

Google

2020

Microsoft Certified Azure Fundamentals (AZ-900)

Microsoft

2020

Associate Android Developer

Google

2018

Certified Jenkins Engineer

Cloudbees

2016

TECHNICAL SKILLS

Cloud Platforms: AWS, Azure, Google Cloud

Programming Languages: C/C++, Go, Java, MATLAB, Python, Ruby

Tools: Ansible, Docker, Packer, Terraform

HONORS & AWARDS

IBM QGSS21 Certificate of Quantum Excellence

IBM

2021

Two-week intensive quantum computing summer school organized by the IBM Qiskit team with a focus on quantum machine learning. Quantum excellence certificates were issued to those who completed *all* graded lab work assignments with a final cumulative score above 75%.

For more information, check out the official announcement on the IBM research blog

IBM Quantum Challenge - Advanced, 1st Place

IBM

2021

Quantum computing hackathon organized by IBM to celebrate the 40-year anniversary of the *Physics of Computation* conference, and 5-year anniversary of IBM Quantum.

Exercises included factoring small integers with Shor's algorithm, running spectroscopy experiments against *real* IBM Quantum systems (w/ exclusive access to the brand new IBMQ Jakarta) using Qiskit Pulse and determining the ground state energy of small molecules (H_2 , LiH) using VQE

For more information, check out the official announcement on the IBM research blog

Udacity Technology Scholarship - AI Track

Udacity / Bertelsmann

2021

Full scholarship to attend Udacity's AI Product Manager nanodegree

QHack 2021 QML Challenge - Top 50

2021

Xanadu / AWS

Quantum machine learning hackathon hosted by AWS and Xanadu

For more information, read my *QHack Recap - PennyLane, Amazon Braket and Beyond* article on Medium

SITEX 2021 - Industrial Edge, 1st Place

2021

Siemens

Bring simulation (Tecnomatix® PlantSim) and optimization (Simcenter HEEDS) to the factory floor and low code platforms (Mendix) to the Industrial Edge landscape as part of a strategic development program for the innovation and technology community in the Siemens hemisphere.

AI@Sustainability Hackathon - Technical Excellence (Team Mobility)

2020

Siemens

Built an application in collaboration with *Swiss Federal Railways* (SBB) and based on Amazon SageMaker to predict the *traffic volume* and *modal split* for a specific weather constellation and time based on a large set of real-world data points.

Associate Android Developer Fast Track Program Scholarship

2016

Google / Udacity

Full scholarship to attend Udacity's fast track course and take the Associate Android Developer exam

Junior Research Scholarship

2013

Fundação para a Ciência e Tecnologia (FCT)

Scholarship for undergraduate students to work at the *Center for Theoretical Particle Physics* (CFTP)

LANGUAGES

Deutsch (elementary proficiency), English (full professional proficiency), Español (professional working proficiency), Français (professional working proficiency), Italiano (elementary proficiency), Português (native)