

Afonso Eduardo

Location: Lisbon, Portugal

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SUMMARY

Afonso holds a **Master's in Electrical and Computer Engineering** from [Instituto Superior Técnico \(IST\)](#), University of Lisbon (Portugal) and a **Master's in Artificial Intelligence** from [The University of Edinburgh \(UK\)](#). He specialized in a range of topics related to signal processing, telecommunications, hardware-software systems and Bayesian machine learning. He has worked on tools for algorithmic trading and methods for physiological signal processing. His interests in Bayesian statistics led him to pursue a PhD in Machine Learning at The University of Edinburgh, having focused on **high-dimensional Bayesian optimization and inference**. Other interests include stochastic processes and time series analysis.

EDUCATION

Doctoral Student in Machine Learning <u>Bayesian Optimization and Inference</u>	University of Edinburgh, UK Mar.19 – Apr.20 Oct.21 – Apr.23
MSc in Artificial Intelligence Bayesian Statistics and Machine Learning MSc Thesis: <u>High-dimensional Bayesian optimization for Learning in Generative Models</u> MSc Grade: 89% (A) Thesis Grade: 89% (A) Award: Howe Masters Prize (best student)	University of Edinburgh, UK <i>Sep.17 – Aug.18</i>
BSc + MSc in Electrical and Computer Engineering Signal Processing, Telecommunications and Embedded Systems MSc Thesis: Link Adaptation Strategies for Cellular Downlink with low-fixed-rate D2D Underlay Erasmus Student, <u>APNet</u> , Aalborg University, Denmark. BSc Grade: 17/20 (A, top 7%) MSc Grade: 18/20 (A, top 1%) Thesis Grade: 19/20 (A)	IST, Portugal <i>Oct.09 – Apr.15</i> <i>Feb.14 – Sep.14</i>

TECHNICAL SKILLS

Languages

Proficient: C/C++, MATLAB, Markdown and Python
Familiar: Assembly, Java, Julia, SQL, XML, VHDL

Developer Tools

Versioning and Revision Control: Git, SVN
Web-based Computing: Jupyter

Software

Machine Learning: Pytorch, Tensorflow, Keras
Bayesian Inference: BUGS, JAGS
FPGA-based Hardware Acceleration: Xilinx ISE

EXPERIENCE

Tutor Postgraduate Course: <u>Probabilistic Modelling and Reasoning</u>	Jan.20 – Apr.20 University of Edinburgh, UK
Research Assistant <u>Pattern and Image Analysis</u> Project: <u>LearnBIG</u> <u>Denoising and Representation Learning of Physiological Signals for Biometric Systems</u>	Jul.16 – Apr.17 Instituto de Telecomunicações, Lisbon, Portugal
Quantitative Analyst PASS - Tecnologias de Informação (FinTech Startup) R&D of methods for asset pricing (technical analysis), portfolio optimization and rebalancing Development of tools for backtesting, performance attribution and risk analysis	Sep.15 – Jul.16 Lisbon, Portugal

LANGUAGES

Portuguese: Native Speaker

English: Proficient User

Certificates:

International English Language Testing System (IELTS) - Academic Module

Date: November 5th, 2016

Scores: Listening - 9.0, Reading - 8.5, Writing - 8.0, Speaking - 7.0

Overall Band Score: 8.0

PUBLICATIONS

Machine Learning

Afonso Eduardo, Michael Urs Gutmann, Bayesian Optimization with Informative Covariance, Transactions on Machine Learning Research (TMLR), 2023.

Afonso Eduardo, Helena Aidos, Ana Fred, ECG-based Biometrics using a Deep Autoencoder for Feature Learning: An Empirical Study on Transferability, International Conference on Pattern Recognition Applications and Methods (ICPRAM), 2017.

Wireless Communications

Afonso Eduardo, Ivo Sousa, António José Rodrigues, Link Adaptation Strategies for Cellular Downlink with low-fixed-rate D2D Underlay, International Symposium on Wireless Personal Multimedia Communications (WPMC), 2015.