


Simão Pedro Sá Cunha


MSc in Informatics Engineering


Date of Birth: January 7th, 2001

Location: Vila Nova de Famalicão - Braga, Portugal

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EDUCATION

•Informatics Engineering (Integrated Master's)

University of Minho, Braga, Portugal

2019-2024

•Basic and Secondary Education

Escola Cooperativa Vale S. Cosme - Didáxis, Vila Nova de Famalicão, Portugal

2012-2019

WORK EXPERIENCE

•Invited Assistant Professor

University of Minho

Feb 2025 - Present

Braga, Portugal

•Summer Internship

Bosch Portugal

Jul - Sep 2023

Braga, Portugal

- Applied machine learning and deep learning techniques to develop a system for detecting delaminations.
- Implemented machine learning models using Python libraries such as Scikit-learn (Sklearn) and deep learning models using Deep Learning Halcon by MVTEC to build robust detection algorithms.
- Conducted image processing tasks using Halcon from MVTEC to enhance data preprocessing.
- Contributed to internal software development projects.
- Gained foundational knowledge in computer vision.

•Summer Internship

Accenture Portugal

Jul - Aug 2022

Braga, Portugal

- Introduction to Google Cloud Platform.
- Data Fusion instance creation and JSON file upload with a customized pipeline configuration in a Cloud Build file written in YAML.
- Agile Scrum Methodology applied in the entire internship.

LANGUAGES

Portuguese: Native

English: C1 - Advanced

SKILLS

Programming Languages: C, C++, Java, JavaScript, Python, Haskell, Prolog

Frameworks: React Native

Web Development Tools: Node.js, VSCode, Git, GitHub

Cloud and DevOps: Google Cloud Platform, Firebase, Docker, Ansible

Databases: SQL, MySQL

Business Intelligence: Microsoft PowerBI

Areas of Interest: Large Language Models, Machine Learning, Green Software, Image Processing, Computer Vision

ACTIVITIES

•CECAM-Lorentz workshop "Greening AI with Software Engineering"

CECAM-HQ EPFL

Feb 2025

Lausanne, Switzerland

•Cerciras Training School 2024

Cerciras - Connecting Education and Research Communities for an Innovative Resource Aware Society

Aug 2024

Klagenfurt, Austria

•1st UMinho Research & Innovation Open Days 2024

University of Minho

Jan 2024

Braga, Portugal

•Sustainable Summer School 2023

University of Coimbra

Jul 2023

Coimbra, Portugal

PUBLICATIONS

- Simão Cunha, Luís Silva, João Saraiva, and João Paulo Fernandes. 2024. **Trading Runtime for Energy Efficiency: Leveraging Power Caps to Save Energy Across Programming Languages**. *Proceedings of the 17th ACM SIGPLAN International Conference on Software Language Engineering (SLE '24)*, October 20–21, 2024, Pasadena, CA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3687997.3695638>
- Luís Maia, Marta Sá, Inês Ferreira, Simão Cunha, Luís Silva, Paulo Azevedo, and João Saraiva. 2024. **On the Impact of PowerCap in Haskell, Java, and Python**. *RAW'24: 3rd Workshop on Resource Awareness of Systems and Society*, July 02–05, 2024, Maribor, Slovenia. <https://ceur-ws.org/Vol-3867/paper4.pdf>

CERTIFICATES

- **CECAM-Lorentz workshop "Greening AI with Software Engineering"** *Feb 2025*
CECAM-HQ EPFL Lausanne, Switzerland
 - Attendance Certificate
- **1st UMinho Research & Innovation Open Days 2024 - Pitch and Poster Session** *Jan 2024*
University of Minho Braga, Portugal
 - Pitch Session Certificate
 - Poster Session Certificate
- **Sustainable Summer School 2023 - Students Workshop and Poster Session** *Jul 2023*
University of Coimbra Coimbra, Portugal
 - Attendance Certificate
 - Students Workshop and Poster Session Certificate
- **English C1** *Oct 2021*
BabeliUM Braga, Portugal
 - Certificate