


# Simão Pedro Sá Cunha


MSc in Informatics Engineering

Date of Birth: January 7<sup>th</sup>, 2001

Location: Vila Nova de Famalicão - Braga, Portugal

 simaocunha71

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 simaocunha71.github.io

## EDUCATION

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### •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

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### •Invited Assistant Professor

*University of Minho*

*Feb 2025 - Present*

*Braga, Portugal*

– Courses taught:

- \* Topics of Software Development
- \* Experimentation in Software Engineering

### •Informatics Teacher

*Requião Primary School and Vale S. Martinho Primary School*

*Mar 2025 – Jun 2025*

*Vila Nova de Famalicão, Portugal*

- Taught IT basics to 2nd, 3rd, and 4th grade students using Microsoft PowerPoint and Word
- Taught programming basics with the Scratch platform

### •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

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**Portuguese:** Native

**English:** C1 - Advanced

## SKILLS

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**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

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### •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

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- 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

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