

# Hugo Afonso Da Gião

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## Personal Details

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**GitHub:** <https://github.com/h4g0>

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## Education


### BSc in Computer Science

 2016–2019

*University of Minho*

Graduated with a final grade of 13/20.


### MSc in Informatics Engineering

 2019–2022

*University of Minho*

Graduated with a final grade of 17/20.

### PhD in Informatics Engineering

 2022–Present


*Faculty of Engineering, University of Porto*

Currently enrolled doctoral student.

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## Research Experience

### Master Thesis


 Sep 2020 – Jan 2022

**LPBlocks – A Block-based Language for Linear Programming**

Supervised by Jácome Cunha, co-supervised by Rui Pereira.


- Developed a visual programming language for linear programming using block-based paradigms.
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## Research Assistant at HASLab / INESC TEC

 Jul 2021 – Jan 2022

- Worked on a grant to design a visual language for linear programming.
  - Developed a user-friendly, block-based interface to make LP more accessible.
  - **Publications:**
    - *Linear Programming Meets Block-based Languages* — Hugo Gião, Rui Pereira, Jácome Cunha (VL/HCC 2021)
    - *Towards a Block-based Language for Linear Programming?* — Hugo Gião, Rui Pereira, Jácome Cunha (INForum 2021)
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## Researcher at HASLab / INESC TEC

 Feb 2022 – Present

- Researched the integration of CI/CD practices with Model-Driven Engineering (MDE).
- Mined open-source repositories to analyze CI/CD practices.
- Designed a validated metamodel to represent CI/CD pipelines.
- Developed a block-based language aligned with the metamodel.
- **Publications & Submissions:**
  - *A Model-Driven Approach for DevOps* (VL/HCC 2022)
  - *A Meta-Model to Support the Migration and Evolution of CI/CD Pipelines* (INForum 2024)

- *CI/CD Meets Block-Based Languages* (VL/HCC 2023)
- *A Metamodel for Reengineering CI/CD Pipelines* (Accepted to MODELS 2025)
- *Model-Driven Approaches for DevOps: A Systematic Literature Review* (In submission)
- *Chronicles of CI/CD: A Deep Dive into its Usage Over Time* (In submission)
- *PipeBlocks: A Block-based Environment for CI/CD* (In submission)