HUGO AFONSO DA GIÃO

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🎓 EDUCATION

- **PhD Informatics Engineering**, Univ. of Porto — *2022–Present*
- **MSc Informatics Engineering**, Univ. of Minho — *2019–2022* • Final Grade: 17/20
- **BSc Computer Science**, Univ. of Minho — *2016–2019* • Final Grade: 13/20

🔬 RESEARCH EXPERIENCE

PhD Researcher, HASLab / INESC TEC — *Feb 2022–Present*

- Focus: Integrating CI/CD with Model-Driven Engineering
- Mined OSS repositories for CI/CD analysis
- Designed a validated a metamodel for CI/CD pipelines
- Developed a block-based language aligned with the metamodel

Master's Thesis — *Sep 2020–Jan 2022*, **Research Assistant, HASLab / INESC TEC**, *LPBlocks: A Block-based Language for Linear Programming*

- Designed a user-friendly, block-based language for linear programming
- Developed a visual language using block-based paradigms

📄 PUBLICATIONS & SUBMISSIONS

Published

- *Linear Programming Meets Block-based Languages* — VL/HCC 2021
- *Towards a Block-based Language for Linear Programming?* — INForum 2021
- *A Model-Driven Approach for DevOps* — VL/HCC 2022
- *CI/CD Meets Block-Based Languages* — VL/HCC 2023
- *A Metamodel for Reengineering CI/CD Pipelines* — MODELS 2025 (accepted)
- *A Meta-Model to Support the Migration and Evolution of CI/CD Pipelines* — INForum 2024
- *PipeBlocks: A Block-based Environment for CI/CD* - VL/HCC 2025 (accepted)

Submitted / In Review

- *Model-Driven Approaches for DevOps: A Systematic Literature Review*
- *Chronicles of CI/CD: A Deep Dive into its Usage Over Time*
- *Model2Block: Generating Block-Based Visual Languages from Ecore Metamodels*