

Henrique Botelho Guerra

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Short Bio

Ph.D. student in Instituto Superior Técnico, Lisbon, Portugal. Interested in programming languages and type systems. Currently working on dependent types and proof assistants.

Employment History

2021 – ···· **Teaching Assistant**, Instituto Superior Técnico, Lisbon, Portugal.

Education

2023 – ···· **Ph.D. Computer Science**, Instituto Superior Técnico, Lisbon, Portugal.

Topics: *Programming Languages, dependent types, and proof assistants.*

Advisors: João F. Ferreira, João Costa Seco.

2020 – 2023 **M.Sc. Computer Science**, Instituto Superior Técnico, Lisbon, Portugal.

Thesis: *Synthesis of Hoogle \star : Constants and λ -abstractions in Petri-net-based Synthesis using Symbolic Execution.*

Advisors: João F. Ferreira, João Costa Seco.

2017 – 2020 **B.Sc. Computer Science**, Instituto Superior Técnico, Lisbon, Portugal.

Research Publications

Conference Proceedings

- 1 H. B. Guerra, J. F. Ferreira, and J. C. Seco, “Hoogle \star : Constants and λ -abstractions in petri-net-based synthesis using symbolic execution,” in *ECOOP 2023*, K. Ali and G. Salvaneschi, Eds., ser. LIPIcs, vol. 263, 2023, 4:1–4:28. [🔗 DOI: 10.4230/LIPICS.ECOOP.2023.4.](https://doi.org/10.4230/LIPICS.ECOOP.2023.4)

Skills

Languages Portuguese (native), English (B2).

Coding Coq, Agda, OCaml, Haskell, C/C++, Java, Python, Prolog, Lisp.

Awards and Achievements

2021-2023 **Diploma of Excellent Teaching.**

Awarded by Instituto Superior Técnico, Lisbon, Portugal, in 2021/2022, 2022/2023.

2017-2020 **Diploma of Academic Excellence/Merit.**

Awarded by Instituto Superior Técnico, Lisbon, Portugal, in 2017/2018, 2018/2019, 2019/2020.

Activities

2023 **Student Volunteer** at ECOOP'23, Seattle, USA and OOPSLA'23, Lisboa, Portugal.

2024 **Participant** in OPLSS, Boston University, Boston, USA.