

Bernardo Borges

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October 2, 2024

Dear PROFESSOR,

My name is Bernardo Borges, and I am writing to express my interest in pursuing a PhD opportunity at UNIVERSITY under your esteemed guidance. I have been working as a researcher under Professor Haniel Barbosa at Universidade Federal de Minas Gerais, Brazil, in my graduation in Computer Science. I have been working in the field of Formal Methods applied to his research in Satisfiability Modulo Theories, what prompted me to learn Lean 4 and use it to formalize proof steps to be used in the cvc5 tool. In general I am interested in Functional Programming, Type Theory and Verification, as well as logic.

Given your work related to Lean, I am motivated to explore the possibility of contributing and learning from your research group. I would be grateful if you could provide information on any available PhD positions within your group or any upcoming opportunities to collaborate. Additionally, I would appreciate any guidance on the application process and requirements for prospective PhD candidates.

Thank you very much for considering my inquiry. I look forward to the possibility of discussing this further.

Best regards,

Bernardo Borges

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Curriculum Vitae

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Personal Details

Birth 2000/04/04, Patos de Minas - MG, Brazil
Nationality Brazillian

Work Experience

2023-2024 **Research Assistant**, *Universidade Federal de Minas Gerais*
Research on Lean 4 and Theorem Proving

Language Skills

Portuguese Native
English Fluently *Finished 6 year English Course and International Contact*
German B2 Level *Experience in classes and 1 year Exchange Program*

Special Skills

- Reading Books
- Programming Languages: Haskell, Lean 4, Rust, TypeScript, C++, C, Python