

Bruno Jardim

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github.com/StrillX

Education

Universidade do Minho, MS in Formal Methods and Cryptography Sept 2022 – Dec 2024
Informatics Engineering (Master) - Average: 17

- **Coursework (Formal Methods):** Algorithm and Program Verification, Distributed Algorithms Verification, Cyber-Physical Programming, Program Design By Calculation
- **Coursework (Cryptography):** Cryptographic Structures, Post-Quantum Cryptography, Vulnerability Detection/Exploitation, Linux Security, Security Engineering
- **Dissertation:** Analyzing quantum learning protocols with ZX

This work was partially supported by FCT, the Portuguese Foundation for Science and Technology, within the project IBEX, with reference PTDC/CCI-COM/4280/2021.

U.Minho, U.Aveiro, U.Porto, PhD in Computer Science Dec 2024 – (ongoing)
MAP-i

Experience

Assistant Researcher, HASLab/INESCTEC – Universidade do Minho, Braga, PT August 2024 – (ongoing)
Research Grant

Full-stack Developer, Micro-net – Braga, PT June 2023 – Dec 2023
Part-time

- Developed a hotel self check-in solution
- Ported a billing/management desktop application to a web application

Data Analyst, Checkmarx – Braga, PT July 2022 – Sept 2022
Summer Internship

Publications

I/O Behaviour Analysis on Android Targeted Ransomware Jan 2024
Beatriz Oliveira, *Bruno Jardim*, Bruno Pereira
Unpublished

Reconfiguring staggered quantum walks with ZX November 2024
This work was supported by FCT, the Portuguese Foundation for Science and Technology, within the project IBEX, with reference PTDC/CCI-COM/4280/2021.

Bruno Jardim, Jaime Santos, Luís S. Barbosa
Published in the ReactS'24 Workshop

Technologies & Other

Concepts & Tools: ZX-calculus and variants (ZH, ZW, ZXW, ...), Quantum Computing, Measurement Based Quantum Computing, Quantum Machine Learning, TLA+, Frama-C, CBMC, Alloy

Languages: Python, C++, C, Java, SQL, JavaScript, NextJS, Haskell, Erlang

Software: Linux, Git, Bash