Paulo A. Viana

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(Last updated: November 28, 2025)

Education

2022-2024 M.Sc. in Computer Science

Universidade Federal de Pernambuco Thesis: Solving the MaxCut Problem with a Grover-based

Quantum Genetic Algorithm

2016-2020 B.Sc. in Mathematics

Universidade Federal de Pernambuco Work: Notes on Categories with a view towards Algebraic Topology

Research

Undergraduate Level

06/2018-06/2019 | Geometrical and Topological Methods in Physics: Quantum Phases in

Condensed Matter

Funded by PIBIC/CNPq (Brazilian National Council for Scientific and Technological

Development)

06/2017-06/2018 | Phenomena and Quantum Phases in Condensed Matter

Funded by PIBIC/CNPq (Brazilian National Council for Scientific and Technological

Development)

Graduate Level

06/2025-Present | Post-Quantum Zero-Knowledge Cryptographic Implementations

Funded by ABIN (Brazilian Intelligence Agency) & CESAR (Recife Center for Ad-

vanced Studies and Systems)

Work Experience

04/2025-Present	Raydian – Founder & CEO
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Building the first Open Quantum Marketplace

02/2023-04/2024 | Accenture - Quantum Computing Analyst

My work was in the company's global internal report of best results and it was

presented at Q2B23 - Silicon Valley

08/2021-10/2021 | NixOS Foundation – Package Manager

Participant of the 1st Summer of Nix Program

Patents

Aug 2024

Dual-Unit Quantum Genetic Algorithm (D23-387/04810-PR-US)

ACCENTURE

A novel Quantum Genetic Algorithm model that optimizes non-linear equations approach to the Oil 6 G. H. J. L. L. L. L. College and the College

plied to the Oil & Gas Industry

Relevant Courses

FUNDAMENTAL GROUP AND COVERING SPACES — IMPA, Summer Program 2019

Data Science Certification — VAI Academy, Aug-Oct 2022

Cryptography I — Stanford University, July 2022

VENTURE FINANCE PROGRAMME — Said Business School, University of Oxford, Jun-Sep. 2025

Technical Skills

Programming Languages: Python, Bash/shell, Haskell, Rust

Cryptography: GPG, LUKS, ZK systems, PQC, Hyperledger Fabric

Data & ML Libraries: PyTorch, TensorFlow, scikit-learn, Pandas

Quantum SDKs: Qiskit, Pennylane, Cirq

Systems & DevOps: Linux, build systems (CMake, Cargo, etc.), Git, Nix

Hardware Architecture: RISC-V (SpacemiT M1)

Scientific Computing: MATLAB/Octave, NumPy/SciPy Tools & Productivity: Vim/Neovim, Emacs, Jupyter

Markup Languages: LATEX, Markdown, HTML/CSS, Org-mode

Teaching

Universidade Federal de Pernambuco

01/2018-02/2018 | Real Analysis (Teaching Assistant)

Teaching Assistant in Real Analysis during the 49th Summer Program of the Depart-

ment of Mathematics (DMAT-UFPE)

09/2024-04/2025 | Post-Quantum Cryptography

Lecturer in Post-Quantum Cryptography at the (LACIQ) Quantum Computing Aca-

demic League (CIn-UFPE)

Events, Competitions, Talks and Other

Events

03/2024	World Youth Festival 2024	
	M 1 1 T 2024 CO F I 1 T C	

March 1-7, 2024 - Sirius Federal Territory, Russia

09/2024 | Campus Party 2024

September 4-8, 2024 - Recife, Brazil

02/2025 | Quantum Innovation Summit 2025

February 26-28, 2025 - Dubai, UAE

03/2025 | XXIV International Scientific and Practical Conference

Start to Innovate - Competiton Judge. March 28 - Moscow, Russia

05/2025 | International Baking Industry Trade Fair 2025

May 18-22, 2025 - Düsseldorf, Germany

09/2025 | Q2B 2025 - Paris

September 24-25, 2025 - Paris, France

10/2025 | TOKEN2049 - Singapore

October 01-02, 2025 - Marina Bay Sands, Singapore

Competitions

02/2024	QHack	2024	Hackathon
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February 8-22, 2024 - Result: Team 61/705

09/2024 | Unilever 'Garagem' Hackathon

Septemeber 5-7, 2024 - Result: 1st Place, Team Leader

Cash Prize: \$2,800

09/2025 | Q2B 2025 Paris Startup Pitch Competition

September 24, 2025 - Result: Finalist, Team Leader

Talks

10/2023	Rec n' Play 2023
	Quantum and Genetics: How Quantum Computing and Genetics are related?
10/2023	
06/2025	Quantum Security Defense – QSECDEF
	Quantum Standardisation & Quantum Certification On-Chain

Societies, Groups and Clubs

02/2018-ACTIVE	American Mathematical Society – AMS Affiliate Member
09/2023-04/2025	Quantum Computing Academic League — UFPE Collaborator and Post-Quantum Cryptography Director
09/2024-ACTIVE	Quantum Security Defense – QSECDEF Associated Member
10/2025-Active	International Association for Cryptologic Research – IACR Associated Member

Volunteering

08/2019-08/2019	SEMAT IV UFPE (Mathematics' Week)	
	Volunteered to organise the event - Recife, Brazil	
03/2023-07/2024	International Student Support Volunteer	
	Volunteered to assist international students from China	

Languages

ENGLISH: Fluent PORTUGUESE: Fluent

 $Italian: \quad Intermediate \; (CEFRL: \; B1)$

CHINESE: Basic (HSK 1)
LATIN: Intermediate
RUSSIAN: Basic (A2)

GERMAN: Basic (CEFRL: A1)