Angelo Antonio Vernaschi Zampronio

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EDUCATION

University of São Paulo São Carlos, SP, Brazil
Bachelor's Degree in Computational Physics *Feb. 2021 – Dec. 2024*
- **Relevant Coursework:**
- Quantum Information Theory
- Computational Physics
- Neural Networks for Pattern Recognition and Modeling
- Statistical Physics
- Advanced Mathematical Analysis (Calculus I–V)
- Advanced Linear Algebra
- Data Science
- Object-Oriented Programming
- Data Structures

University of São Paulo São Carlos, SP, Brazil
Master's Degree in Physics *Jan. 2025 – Present*
- **Relevant Coursework:**
- Neural Networks
- Parallel Programming

EXPERIENCE

Undergraduate Researcher Jan. 2023 – Dec. 2023

Conducted an undergraduate research project titled "Group selection: understanding the conflict between collective welfare and individual interest", involving the simulation of a simplified economy based on the public goods game.

- Skills: Computational Simulation, Stochastic Processes, Mathematical Modeling

Undergraduate Researcher Jan. 2024 – Dec. 2024

Conducted a FAPESP-funded undergraduate research project titled "Quantum phase transitions in one-dimensional integrable systems" in the field of condensed matter physics.

- Skills: Quantum Mechanics, Linear Algebra, Mathematical Abstraction, Mathematical Modeling of Physical Systems

Graduate Teaching Assistantship – University of São Paulo Mar. 2025 – Nov. 2025

Served as a Teaching Assistant for the "Physics III" course twice.

- Skills: Instruction and Teaching, Classroom Management, Explanation of Complex Concepts

Graduate Researcher Jan. 2025 – Present

As a Master's student, I am developing a CAPES-funded research project titled "Noise spectroscopy in quantum logic gates using machine learning".

- Skills: Python (NumPy, SciPy, Pandas, Scikit-learn, Keras, TensorFlow, PyTorch), Quantum Computing, Quantum Mechanics, Statistics, Data Science, Numerical Methods, Mathematical Abstraction, Computational Modeling, Machine Learning

LANGUAGES

Portuguese – **Fluent**

English – **Advanced**