

Curriculum Vitae

Francisco Neme Campos Dahab

1 Personal Information

- Name: Francisco Neme Campos Dahab
- Gender: Male
- Place and Date of Birth: Campinas, Brazil – 12/20/2001
- Address: Av. Padre Pereira de Andrade, 127, Apt. 64 Block CA – São Paulo, SP, Brazil 05469-901
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2 Academic Education

2.1 Graduate Education

- *Master's degree in Physics (Ongoing)*: Institute of Theoretical Physics, São Paulo State University, Brazil.
Period: 2024 – (expected 2026)

2.2 Undergraduate Education

- *Bachelor's degree in Physics*: Institute of Physics of the University of São Paulo, Brazil.
Period: 2020 – 2023.
GPA: 9.4/10 (Rank 1/43)

2.3 Additional relevant courses

- *XV CBPF School Course on The Infrared Regime of Yang-Mills Theories*
Year: 2025
- *XV CBPF School Course on Quantum Geometry in Condensed Matter*
Year: 2025
- *12th CERN Latin-American School of High-Energy Physics: European Organization for Nuclear Research (CERN)*
Year: 2025
- *III Joint ICTP-SAIFR/ICTP-Trieste School on Particle Physics: International Centre for Theoretical Physics - South American Institute for Fundamental Research (ICTP-SAIFR).*
Year: 2024
- *School on Origin of Matter Domination in the Universe: International Centre for Theoretical Physics - South American Institute for Fundamental Research (ICTP-SAIFR).*
Year: 2023
- *7th International Summer School on Intelligent Signal Processing for Frontier Research and Industry (INFIERI)*: Hosted at the University of São Paulo (USP).
Year: 2023

- *Perimeter Scholar International Start (PSI-Start) Online School*: Perimeter Institute for Theoretical Physics (PI).
Year: 2023
- *Journeys into Theoretical Physics*: International Centre for Theoretical Physics - South American Institute for Fundamental Research (ICTP-SAIFR).
Year: 2023
- *Jayme Tiomno Physics Winter School Minicourse on Beyond the Standard Model Physics*: Institute of Physics of the University of São Paulo (IF-USP).
Year: 2022
- *Jayme Tiomno Physics Winter School Minicourse on an Introduction to Quantum Field Theory in Curved Spacetime*: Institute of Physics of the University of São Paulo (IF-USP).
Year: 2022
- *Reading Course on the Foundations of Quantum Mechanics*: Under the advisory of Prof. Marcelo Terra Cunha.
Year: 2021
- *International Summer School for Young Physicists*: Perimeter Institute for Theoretical Physics (PI).
Year: 2018
- *Minicourse on Relativity, Gravitation and Quantum Mechanics*: Institute of Theoretical Physics at the São Paulo State University (IFT-UNESP)
Year: 2017

3 Research Experience

- *Research Project*: Under the advisory of Prof. Christophe Grojean, at the Deutsches Elektronen-Synchrotron (DESY)
Title of project: *Probing Partial Compositeness at the FCC-ee*
Period: 07-2025 – 02/2026
- *Master's Research Project*: Under the advisory of Prof. Ricardo D'Elia Matheus, at the Institute of Theoretical Physics at the São Paulo State University
Title of the project: *Probing Higgs Compositeness at the FCC-ee*
Period: 2024 – 2026
- *Undergraduate Research Project*: Under the advisory of Prof. Ricardo D'Elia Matheus, at the Institute of Theoretical Physics at the São Paulo State University
Title of the project: *Introduction to Quantum Field Theory and Particle Physics with applications on derivations via Mathematica*
Period: 2022 – 2023
- *Undergraduate Research Project*: Under the advisory of Prof. Orlando Luis Goulart Peres, at the Gleb Wataghin Institute of Physics of the University of Campinas
Title of the project: *Physics of Neutrino Oscillation*
Period: 2018 – 2019

4 Funding and Scholarships

- Research Internship Abroad Scholarship from the São Paulo Research Foundation (FAPESP) 07-2025 – 02/2026
- Master's Scholarship from the São Paulo Research Foundation (FAPESP) 2024 – Ongoing
- Master's Scholarship from the Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES) 2024 – 2024
- Undergraduate Research Scholarship from FAPESP 2023 – 2024

5 Awards and Achievements

- *Special Prize for Excellent Undergraduate Poster Contribution, 7th Intelligent Signal Processing for Frontier Research and Industry (INFIERI), 2023. Event Website*
- *Unified Examination of Graduate Courses in Physics (EUF): National undergraduate level assessment for access to graduate courses - 99.4th percentile*
- *Third Place, 2018 Brazilian Qualifiers for the International Young Physicists Tournament*
- *Gold Medal, 2017 Brazilian Astronomy Olympiad*
- *Gold Medal, 2017 Brazilian Physics Olympiad*
- *Silver Medal, 2017 São Paulo State Physics Olympiad*
- *Gold Medal, 2016 Brazilian Physics Olympiad*
- *Bronze Medal, 2016 São Paulo State Physics Olympiad*
- *Bronze Medal, 2014 São Paulo State Physics Olympiad*
- *Bronze Medal, 2013 São Paulo State Physics Olympiad*
- *Gold Medal, 2013 Math Kangaroo*

6 Additional Skills

6.1 Languages

- *Portuguese*: Fully proficient
- *English*: Fully proficient
- *Spanish*: Reading and Listening

6.2 Programming

- *Mathematica*: Proficient
- *Python*: Some experience

6.3 Teaching

- Teaching assistant for Quantum Field Theory II 2025 - 1;
- Gave supplementary lectures intended to help freshmen in 2022 and 2023;
- Volunteered as a teacher of mathematics and physics at a public school from 2018 to 2019.