

PEDRO H. R. DE ANDRADE



Computer Engineering
de Andrade, P. H. R.

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🎓 ACADEMIC EXPERIENCE

Bachelor in Computer Engineering

Instituto Federal Fluminense **Campus Bom Jesus do Itabapoana**
📅 August. 2023 – present ⚙ Rio de Janeiro, Brasil

Technical Degree in Informatics

Instituto Federal Fluminense **Campus Bom Jesus do Itabapoana**
📅 Feb. 2020 – Dec. 2022 ⚙ Rio de Janeiro, Brasil

🧪 RESEARCH PROJECTS

Understanding Dark Matter from ExtraGalactic Shocks

Instituto Federal Fluminense **Campus Bom Jesus do Itabapoana**
📅 September. 2022 – March. 2023 ⚙ Rio de Janeiro, Brasil

Simulating the Impact of Satellites on Astronomical

Instituto Federal Fluminense **Campus Bom Jesus do Itabapoana**
📅 August. 2023 – September. 2023 ⚙ Rio de Janeiro, Brasil

Junior Scientific Initiation Scholarship - CNPq

Supervisor: Dr. Ana Cecília Soja

Volunteer in the Scientific Initiation project - CNPq

Supervisor: Dr. Ana Cecília Soja

MobFog at IFFMaker

Instituto Federal Fluminense **Campus Bom Jesus do Itabapoana**
📅 August. 2023 – February. 2024 ⚙ Rio de Janeiro, Brasil

Anomaly Detection in Stars of the Milky Way: Exploring Data from Gaia and Other Surveys with Machine Learning 2025

Instituto Federal Fluminense **Campus Bom Jesus do Itabapoana**
📅 October. 2025 – present ⚙ Rio de Janeiro, Brasil

Scholarship in the Scientific Initiation project - IFF

Supervisor: Dr. Ana Cecília Soja

Scholarship in the Scientific Initiation project - CNPq
Supervisor: Dr. Ana Cecília Soja and Dr. Maria Luiza Linhares Dantas

👥 EVENTS

Science Fairs

21st Brazilian Science and Engineering Fair

Poster
USP
📅 March. 2023 ⚙ São Paulo, Brazil

XVI Scientific and Technological Exhibition of the Açaí Institute

Poster
UFPA
📅 December. 2025 ⚙ Belém, Brazil

40th International Science and Technology Fair

Poster
Fundação Libelato
📅 October. 2023 ⚙ Rio Grande do Sul, Brazil

Conferences

IX Brazilian Science Initiation Fair

Poster
Pomerode
📅 September. 2024 ⚙ Santa Catarina, Brazil

XLVIII Annual Meeting of the Brazilian Astronomical Society

Poster
Caxambu
📅 September. 2025 ⚙ Minas Gerais, Brazil

RESEARCH INTERESTS

Stars

Milky Way

Galactic Archaeology

Star Evolution

Quantum Mechanics

Computational Physics

Machine Learning

PUBLICATIONS

Link Nasa ADS: [NASA ADS - Pedro H. R. de Andrade](#)

Proceedings

- [1] Pedro Henrique Rocha de Andrade, Maria Luiza Linhares Dantas, and Ana Cecilia Soja. "Stellar properties and chemical features of the Gaia Catalogue of Nearby Stars observed by GALAH DR4". In: Dec. 2025, arXiv:2512.10037, arXiv:2512.10037. arXiv: [2512.10037 \[astro-ph.SR\]](#).

AWARDS



IX FEBIC

3rd Place in the Undergraduate Category with the work "Simulating the Impact of Satellites on Astronomical Observations"



XVI MCTIA

1st Place in the Undergraduate Category with the work "Simulating the Impact of Satellites on Astronomical Observations"

STATISTICS



1 Oral Presentations

National Congresses



6 Posters

National and International Events



5 Science Fairs/Congresses

National and International Events

PROGRAMMING



Python



Git



Github



TeX



C++



Java



NodeJS

LANGUAGES

Portuguese



English



Spanish

