

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

Junior Scientific Initiation Scholarship - CNPq

Supervisor: Dr. Ana Cecília Soja

Simulating the Impact of Satellites on Astronomical

Instituto Federal Fluminense *Campus Bom Jesus do Itabapoana*

August. 2023 – September. 2023 Rio de Janeiro, Brasil

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

Scholarship in the Scientific Initiation project - IFF

Supervisor: Dr. Ana Cecília Soja

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 - 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 Açai Institute

Poster
UFPA

December. 2025 Belém, Brazil

40th International Science and Technology Fair

Poster
Fundação Libelato

October. 2023 Rio Grande do Sul, Brazil

Conferences

XLVIII Annual Meeting of the Brazilian Astronomical Society

Poster
Caxambu

September. 2025 Minas Gerais, Brazil

IX Brazilian Science Initiation Fair

Poster
Pomerode

September. 2024 Santa Catarina, 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 Git
- Github
- LaTeX
- C++
- Java
- NodeJS

LANGUAGES

- Portuguese
- English
- Spanish