

# PEDRO H. R. DE ANDRADE

Computer Engineering  
de Andrade, P. H. R.

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## ACADEMIC BACKGROUND

### 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