

# 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

### 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

