Arthur S. Magalhães

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Personal Information

- Nationality: Brazilian
- Position: M.Sc. Student at Universidade de São Paulo

Education

M.Sc.	**Universidade de São Paulo**, Astronomy	Mar. 2024 – Currently

- GPA: 4.0/4.0
- Thesis (in progress): *Characterization of the young stellar clusters Collinder 205 and Ruprecht 79*

B.Sc	**Universidade de São Paulo**, Physics	Apr. 2021 – Dec. 2023

- GPA: 8.1/ 10.0
- Undergraduate Research: *Near-Infrared study of regions associated with young star clusters*

B.Sc	**Universidade Federal de Minas Gerais**, Physics	Feb. 2019 – Feb. 2021 (transferred)

- Undergraduate Research: *Astrophysical parameters and evolution of star clusters*

International Experience

Exchange Semester

Uppsala University, Sweden	Jan. 2025 - Jun. 2025

- Theses: *Testing webSME for abundance determination; Probing NGC 6397 for Atomic Diffusion using webSME* (submitted to DiVA portal)
- Courses: *Nuclear Astrophysics; Astrophysical Tests of Physical Theories* (Passed with distinction)

Scholarships

CAPES	2024-Ongoing
Coordenação de Aperfeiçoamento de Pessoal de Nível Superior	
Master of Sciences Scholarship	
Erasmus+ KA107	2025-2025
International Credit Mobility Program	
Full-time exchange studies	
CNPq	2022-2023
Conselho Nacional de Desenvolvimento Científico e Tecnológico	
Undergraduate Research Scholarship	
CNPq	2020-2021
Conselho Nacional de Desenvolvimento Científico e Tecnológico	
Undergraduate Research Scholarship	

Publications

Conference Proceedings

Characterization of the young stellar cluster Collinder 205 with Spartan/SOAR 2025
A.S. Magalhães, J. Gregorio-Hetem
Boletim da Sociedade Astronômica Brasileira [↗]

Near-infrared study of regions associated with young star clusters 2024
A.S. Magalhães, J. Gregorio-Hetem
Boletim da Sociedade Astronômica Brasileira [↗]

Professional & Observing Activities

IAG - USP, *32°International Symposium on Scientific and Technological Initiation at USP* 2024
Poster evaluator

Observatório Pico dos Dias (OPD), *Multiple Observing runs* 2019-2024
1.6 m Perkin-Elmer Telescope and 0.6 m Boller & Chivens Telescope (photometry and
polarimetry).

Participation in Events

Presenter

Talks

X IAG Science Day 2025
São Paulo - Brazil
Using webSME to study atomic diffusion in the globular cluster NGC6397

IX IAG Science Day 2024
São Paulo - Brazil
Characterization of the young stellar cluster Collinder 205 with Spartan/SOAR

VIII IAG Science Day 2023
São Paulo - Brazil
Astrophysical Parameters Determination for Young Star Clusters

Posters

11th meeting of the BRICS Astronomy Working Group 2025
São José dos Campos - Brazil
*Probing atomic diffusion in the globular cluster NGC6397 using VLT/FLAMES-UVES data
(scheduled)*

XIX IAG/USP Advanced School on Astrophysics 2025
Bertioga - Brazil
Testing webSME for abundance determination & probing atomic diffusion in NGC 6397.

XLVII Annual Meeting of the Brazilian Astronomical Society 2024
Águas de Lindóia - Brazil
Characterization of the young stellar cluster Collinder 205 with Spartan/SOAR

31°International Symposium on Scientific and Technological Initiation at USP 2023
São Paulo - Brazil
Near-infrared study of regions associated with young star clusters

XLVI Annual Meeting of the Brazilian Astronomical Society 2023
Rio de Janeiro - Brazil
Near-infrared study of regions associated with young star clusters

XXIX Undergraduate Research Week at UFMG 2020
Belo Horizonte - Brazil
Study of the interstellar cloud TGUH1821 while searching for open clusters

Teaching Assistant

Instituto de Astronomia, Geofísica e Ciências Atmosféricas da USP
AGA0414 - Methods in Observational Astrophysics I

<div align="right">2024
First Semester</div>

Technologies

- **Programming Languages:** Python, R
- **Astronomical Data:** *Gaia* DR3, AllWISE, 2MASS
- **Tools:** Linux, LaTeX, git, webSME ↗, Topcat, Aladin, DS9, IRAF

Outreach

Astronomia ao Meio-Dia
Talk *(scheduled)*

Independent YouTube Content Creator ↗
Science communication

Astropontos ↗
Regular author

Other Information

- **Languages:** Portuguese (Native), English (Proficient), Spanish (Basic), German (Basic)