

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
<ul style="list-style-type: none">• GPA: 4.0/4.0• Thesis (in progress): <i>Characterization of the young stellar clusters Collinder 205 and Ruprecht 79</i>	
B.Sc. Universidade de São Paulo , Physics	Apr. 2021 – Dec. 2023
<ul style="list-style-type: none">• GPA: 8.1/ 10.0• Undergraduate Research: <i>Near-Infrared study of regions associated with young star clusters</i>	
B.Sc. Universidade Federal de Minas Gerais , Physics	Feb. 2019 – Feb. 2021 (transferred)
<ul style="list-style-type: none">• Undergraduate Research: <i>Astrophysical parameters and evolution of star clusters</i>	

International Experience

Exchange Semester

Uppsala University, Sweden	Jan. 2025 - Jun. 2025
<ul style="list-style-type: none">• Theses: Testing webSME for abundance determination ↗; Probing NGC 6397 for Atomic Diffusion using webSME ↗ (published on DiVA portal)• Courses: <i>Nuclear Astrophysics; Astrophysical Tests of Physical Theories</i> (Passed with distinction)	

Scholarships

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

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**, 32nd 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
- 31st 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

2024

First Semester

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

- **Work in progress:**
 - Participating in a time proposal (co-author) for variability analysis of four star-forming regions using the T-80 South Telescope with S-PLUS filters. (*Submitted*)
 - Participating in a time proposal (main author) to gather optical spectra from variable sources in the regions of Collinder 205 and Ruprecht 79 open clusters, using the 1.6 m Perkin-Elmer Telescope with the Coudé spectrograph. (*in preparation*)
- **Languages:** Portuguese (Native), English (Proficient), Spanish (Basic), German (Basic)