

Arthur S. Magalhães

📍 São Paulo, Brazil

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👤 ArthurSMg

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 [↗](#) (published on DiVA portal)
- Courses: *Nuclear Astrophysics; Astrophysical Tests of Physical Theories* (Passed with distinction)

Scholarships

CAPES

Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
Master of Sciences Scholarship

2024-Ongoing

Erasmus+ KA107

International Credit Mobility Program
Full-time exchange studies

2025-2025

CNPq

Conselho Nacional de Desenvolvimento Científico e Tecnológico
Undergraduate Research Scholarship

2022-2023

CNPq

Conselho Nacional de Desenvolvimento Científico e Tecnológico
Undergraduate Research Scholarship

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, 33º International Symposium on Scientific and Technological Initiation at USP

2025

Poster evaluator

IAG - USP, 32º 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

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

31º 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

Teaching Assistant

Instituto de Astronomia, Geofísica e Ciências Atmosféricas da USP

2024

AGA0414 - Methods in Observational Astrophysics I

First Semester

Technologies

- **Programming Languages:** Python, R
- **Astronomical Data:** *Gaia*-DR3, AllWISE/NEOWISE, 2MASS
- **Tools:** Linux, L^AT_EX, git, [webSME](#), Topcat, Aladin, DS9, StarFinder, IRAF

Outreach

Astronomia ao meio-dia

Outreach seminars (organizer)

Independent YouTube Content Creator

Science communication

Astrobites

Guest post

Astropontos

Regular author (The PT-BR equivalent of Astrobites)

Other Information

- **Time Proposals:**

- SOAR Telescope (SAM - Adaptive Optics Module) — Co-author on a time proposal to observe two star clusters and four star-forming regions. (*Accepted*)
- SOAR Telescope (Goodman - Multi Object Spectroscopy) — Co-author on a time proposal to obtain optical spectra of variable sources in the Collinder 205 open cluster and the CMa star-forming region. (*Accepted*)
- T-80 South Telescope (S-PLUS filters) — Co-author on a time proposal for variability analysis of four star-forming regions. (*Accepted*)
- OPD 1.6 m Perkin-Elmer Telescope (Coudé spectrograph) — Co-author on a time proposal to obtain optical spectra of variable sources in the Collinder 205 open cluster and other star-forming regions. (*Accepted*)

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