

Lais Borbolato

📍 Universidade de São Paulo
Instituto de Astronomia, Geofísica e Ciências Atmosféricas (IAG)
Rua do Matão, 1226, Cidade Universitária, São Paulo 05508-090, Brasil
✉️ laisborbolato@usp.br
🆔 0000-0003-3382-1051

Education

- 2023 – 2027 📖 **Ph.D. in Astronomy, Universidade de São Paulo.**
Advisor: Silvia Rossi
Thesis title: *Milky Way's disk structures as a memory of its turbulent past*
- 2019 – 2022 📖 **B.Sc. in Astronomy, Universidade de São Paulo**
Advisor: Silvia Rossi
Thesis title: *Kinematics and Detailed Chemistry for Monoceros Overdensity.*






Funding

- 2023 – 2026 📖 **Doctorate – CAPES – IAG/USP**
Project: Milky Way's disk structures as a memory of its turbulent past
- 2021 – 2022 📖 **Undergraduate Research – FAPESP – IAG/USP**
Project: Kinematics and Detailed Chemistry for Monoceros Overdensity
- 2020 – 2021 📖 **Undergraduate Research – PIBIC/CNPq – IAG/USP**
Project: Chemodynamical properties of the Monoceros Stellar Overdensity
- 2019 – 2020 📖 **Unified scholarship program (PUB) - IAG/USP**
Customer service at the Abrahão de Moraes Observatory in Valinhos, São Paulo

Honors and Awards

- 2023 📖 Work awarded at the 75th Annual Meeting of the Brazilian Society for the Progress of Science (SBPC)
Title: *Chemodynamical properties of the Monoceros Stellar Overdensity*
- 2022 📖 Honorable mention at the 30th International Symposium on Scientific and Technological Initiation at USP (SIICUSP)
Title: *Chemodynamical properties of the Monoceros Stellar Overdensity*
- 2018 📖 Gold medal at the Brazilian Astronomy and Astronautics Olympiad (OBA)
- 2017 📖 Gold medal at the Brazilian Astronomy and Astronautics Olympiad (OBA)
- 2015 📖 Honorable mention at the Brazilian Public School Mathematics Olympiad (OBMEP)



Teaching and Outreach

- 2024  **Teaching assistant:** Astronomia para Docentes (IAG/USP)
- 2022 – 2024  **Atendimento Astronômico**
Supervisor of monitored visits at IAG-USP and teaching assistant in virtual meetings with public school students
- 2019 – 2023  **Noite com as Estrelas - Observatório Abrahão de Moraes (OAM).**
Customer service at the Abrahão de Moraes Observatory in Valinhos, São Paulo
- 2020 – 2021  **ASTROMINAS - Universidade de São Paulo.**
This project is dedicated to disseminating Science and Technology to female high school students, facilitating access to university.
You can access the project website [here](#)
-  **Cecília em Casa - Universidade de São Paulo .**
This project is dedicated to disseminating and popularizing Earth and Universe sciences in schools.
You can access the project website [here](#)

Learning and Service

- 2024 –  **Organizer:** Astronomia ao Meio-Dia - Cycle of Seminars of the Astronomy Department of IAG/USP (YouTube)
-  **Students representative:** Astronomy Program Coordinating Committee (IAG/USP)
- 2021 – 2022  **Students representative:** Defense of Diversity, Human Rights and Democracy Committee, CDDHD (IAG/USP)
- 2020 – 2021  **Students representative:** Congregation (IAG/USP)
- 2019 – 2020  **Organizer:** Brazilian Astronomy Olympiad (OBA)
- 2019 –  **Member:** Sociedade Astronômica Brasileira (SAB)

Skills

- Languages  Portuguese (native), English (intermediate).
- Coding  Python, L^AT_EX

Conferences, Workshops & Contributed talks


- 2024  **IAU Symposium 395: Stellar populations in the Milky Way and beyond**
Poster | *The Early and Fast Settlement of Milky Way Disk*

Conferences, Workshops & Contributed talks (continued)



-  **XLVII Reunião Anual da Sociedade Astronômica Brasileira**
Talk | *Deciphering the earliest stages of the Milky Way disk formation*
-  **XXXII IAU General Assembly**
Talk | *The Early and Fast Settlement of Milky Way Disk*
- 2023  **XVII Latin American Regional IAU Meeting**
Talk | *All-sky Kinematics and Chemistry of Monoceros Stellar Overdensity*
-  **XLVI Meeting of the Sociedade Astronômica Brasileira.**
Talk | *Kinematics and Detailed Chemistry for Monoceros Overdensity*
- 2022  **30° International Symposium on Scientific and Technological Initiation at USP (SIICUSP)**
Poster | *Kinematics and Detailed Chemistry for Monoceros Overdensity*
-  **XLV Meeting of the Sociedade Astronômica Brasileira.**
Poster | *Kinematics and Detailed Chemistry for Monoceros Overdensity*
- 2021  **29° International Symposium on Scientific and Technological Initiation at USP (SIICUSP)**
Poster | *Chemodynamical properties of the Monoceros Stellar Overdensity*
-  **XLIV Meeting of the Sociedade Astronômica Brasileira.**
Poster | *Chemodynamical properties of the Monoceros Stellar Overdensity*

Research Publications

1st Author Publications - Journal Articles

- 1 **L. Borbolato**, H. D. Perottoni, S. Rossi, *et al.*, *All-sky Kinematics and Chemistry of Monoceros Stellar Overdensity*, Jan. 2024.  DOI: 10.3847/1538-4357/ad02fb. arXiv: 2309.15321 [astro-ph.GA].

Nst Author Publications - Journal Articles

- 1 G. Limberg, A. P. Ji, R. P. Naidu, *et al.*, “Extending the chemical reach of the H3 survey: detailed abundances of the dwarf-galaxy stellar stream Wukong/LMS-1”, vol. 530, no. 3, pp. 2512–2525, May 2024.  DOI: 10.1093/mnras/stae969. arXiv: 2308.13702 [astro-ph.GA].
- 2 H. D. Perottoni, J. A. S. Amarante, G. Limberg, *et al.*, “Searching for Extragalactic Exoplanetary Systems: The Curious Case of BD+20 2457,” vol. 913, no. 1, L3, p. L3, May 2021.  DOI: 10.3847/2041-8213/abfb06. arXiv: 2104.08306 [astro-ph.EP].