

Augusto E. Lassen

Curriculum Vitae

Astrophysics Postdoctoral Researcher

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Last updated on: March 3, 2026

Education

- 2020–2024 **Ph.D., Astrophysics**, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, BR.
2023–2024 **Visiting Ph.D. student, Astrophysics**, University of Stockholm, Stockholm, SE.
2018–2020 **Ms.C., Astrophysics**, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, BR.
2014–2018 **Bs.C., Astrophysics**, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, BR.

Work experience

- September, 2024 – present **Postdoctoral researcher**, Istituto Nazionale di Astrofisica (INAF), Osservatorio Astronomico di Padova, Padova, IT.
Advisor: **Dra. Benedetta Vulcani** [🆔], Staff Researcher, INAF – OAPd

Publications

Refereed Journal Articles — Full record

- 2026 **Ignesti, A. et al. (incl. Lassen, A. E.)**, *The supersonic nature of jellyfish galaxies*, A&A, in press., [arXiv:2602.21821](https://arxiv.org/abs/2602.21821).
Vulcani, B. et al. (incl. Lassen, A. E.), *Mechanisms Affecting Galaxies Nearby and Environmental Trends (MAGNET)*, A&A, in press., [arXiv:2602.15142](https://arxiv.org/abs/2602.15142).
Matijević, P. et al. (incl. Lassen, A. E.), *The Competing Influence of Ram Pressure and Tidal Interaction in NGC 2276*, A&A, 707, A40, [DOI:10.1051/0004-6361/202555393](https://doi.org/10.1051/0004-6361/202555393).
Benotto, P. et al. (incl. Lassen, A. E.), *Spatially resolved PAH_{3.3} emission and stellar ages in ram pressure stripped clumps at $z \sim 0.3$* , A&A, 706, A300, [DOI:10.1051/0004-6361/202558016](https://doi.org/10.1051/0004-6361/202558016).
2025 **Lassen, A. E. et al.**, *Distinguishing ram pressure from gravitational interactions: Applying the Size-Shape Difference method to real galaxies*, A&A, 706, A85, [DOI: 10.1051/0004-6361/202556010](https://doi.org/10.1051/0004-6361/202556010).
Lassen, A. E. et al., *Investigating the clumpy star formation in an interacting dwarf irregular galaxy*, MNRAS, 541, 1028-1047, [DOI: 10.1093/mnras/staf1049](https://doi.org/10.1093/mnras/staf1049).
Poggianti, B. M. et al. (incl. Lassen, A. E.), *The MUSE view of ram pressure stripped galaxies in clusters: The GASP sample*, A&A, 699, A357, [DOI: 10.1051/0004-6361/202554200](https://doi.org/10.1051/0004-6361/202554200).
Peluso, G. et al. (incl. Lassen, A. E.), *The interplay between Active Galactic Nuclei and Ram-pressure stripping: spatially-resolved gas-phase abundances of stripped and undisturbed galaxies*, A&A, 701, A29, [DOI: 10.1051/0004-6361/202453370](https://doi.org/10.1051/0004-6361/202453370).
Jegatheesan, K. et al. (incl. Lassen, A. E.), *Dual-component stellar assembly histories in local elliptical galaxies via MUSE*, A&A, 694, A224, [DOI: 10.1051/0004-6361/202452137](https://doi.org/10.1051/0004-6361/202452137).
2024 **Dahmer-Hahn, L. G. et al. (incl. Lassen, A. E.)**, *Extragalactic globular cluster near-infrared spectroscopy: I. Integrated near-infrared spectra of Centaurus A/NGC 5128*, A&A, 690, A93, [DOI: 10.1051/0004-6361/202449570](https://doi.org/10.1051/0004-6361/202449570).
Adamo, A. et al. (incl. Lassen, A. E.), *Bound star clusters observed in a lensed galaxy 460 Myr after the Big Bang*, Nature, 632, 513-516, [DOI: 10.1038/s41586-024-07703-7](https://doi.org/10.1038/s41586-024-07703-7).

- 2023 **Azevedo, G. M. et al. (incl. Lassen, A. E.)**, *Spatially resolved self-consistent spectral modelling of jellyfish galaxies from MUSE with FADO: trends with mass and stripping intensity*, MNRAS, 523, 4680-4692, DOI: [10.1093/mnras/stad1641](https://doi.org/10.1093/mnras/stad1641).
- 2021 **Lassen, A. E. et al.**, *The metal-poor dwarf irregular galaxy candidate next to Mrk 1172*, MNRAS, 506, 3527-3539, DOI: [10.1093/mnras/stab1838](https://doi.org/10.1093/mnras/stab1838).

In Conference Proceedings

- 2021 **Lassen, A. E. et al.**, *An Extended Emission Line Region around Mrk 1172*, IAU Symposium, 359, 438-440, DOI: [10.1017/S1743921320004299](https://doi.org/10.1017/S1743921320004299).
- Azevedo, G. M. et al. (incl. Lassen, A. E.)**, *Stellar population synthesis of jellyfish galaxies*, IAU Symposium, 359, 255-256, DOI: [10.1017/S1743921320004056](https://doi.org/10.1017/S1743921320004056).

Approved observing proposals

P.I.

- 2022 **Gemini/GSAOI**, *Resolving the HII regions at the heart of a dwarf irregular galaxy in the vicinity of Mrk 1172*, 2.3 hours.

Co-P.I.

- 2025 **WEAVE@WHT**, *The difficult life of galaxies in groups: The peculiar case of NGC 2276*, 16.5 hours, P.I.: S. Trager.
- SOAR**, *Near-Infrared spectroscopy of globular clusters in Centaurus A for testing stellar population models*, 35 hours, P.I.: T.A. Pacheco.
- 2024 **MeerKAT**, *Driving rapid galaxy evolution via mergers: The dramatic Blue Compact Dwarf Galaxy ESO 400-43*, 30 hours, P.I.: J. Cannon.

Fellowships & Awards

- 2020 – 2024 Ph.D. PROEX research fellowship granted by CAPES
- 2023 – 2024 PSDE-Print research fellowship granted by CAPES for international internship.
- 2018 – 2020 Masters research fellowship granted by CNPq
- 2017 – 2018 Undergraduate research fellowship for technological initiation granted by UFRGS

Research Grants and Computational Allocations

- 2025 Approved HPC allocation for the project *"Identifying ram pressure induced unwinding arms in cluster spirals"* (UNWind) at CINECA, Italy.

Scientific events

- 2025 **Galaxy Memoirs** (Búzios, BR). *Talk*: Unveiling clump formation and stellar feedback in two local low-mass galaxies: Insights from MUSE and HST observations. *Poster*: Distinguishing ram pressure from gravitational interactions: Applying the Size-Shape Difference method to real galaxies.
- 2024 **BlueMUSE Science Meeting** (Remote science meeting). *Talk*: Spatially resolved analysis of stellar feedback and ionized gas properties in ESO 400-43.
- 2021 **Chemical Abundances in Gaseous Nebulae: from the Milky Way to the Early Universe** (Remote workshop). *Poster*: The metal-poor dwarf irregular galaxy candidate next to Mrk 1172.
- 2020 **14th S-PLUS Collaboration Meeting** (Remote science meeting). *Poster*: The dwarf irregular galaxy candidate next to Mrk 1172.
- 2020 **International Astronomical Union Symposia 359: Galaxy Evolution and Feedback Across Different Environments** (Bento Gonçalves, BR). *Poster*: Spatially resolved stellar population synthesis of dwarf irregular candidates.

- 2019 **12th S-PLUS Collaboration Meeting** (São Paulo, BR). *Talk*: The search for extended emission line regions (and maybe even *voorwerpjes*) with S-PLUS.
- 2019 **First Light: Stars, galaxies, and black holes in the epoch of reionization** (São Paulo, BR). *Poster*: Spatially resolved stellar population synthesis with MUSE.

Teaching experience

- 2024 Opponent for the final exam of the undergraduate thesis: "*Análise de sistemas tênues do halo galáctico*" (available at [LUME UFRGS Repository](#)).
- 2023 Teaching Assistant at graduate Astrophysics course: Extragalactic Astronomy, UFRGS
- 2023 Mini-workshop of Ly break photometric drop-out technique in graduate Astrophysics course: Extragalactic Astronomy, UFRGS
- 2017 Mentoring at undergraduate class: Laboratory of modern physics, UFRGS

Academic Service & Outreach

- 2026 Referee for *Astronomy & Astrophysics (A&A)*
- 2025 Published outreach article: **Lassen, A. E.**, Chies-Santos, A. L. & Wille, A., "As espetaculares galáxias medusas", *Revista Brasileira de Astronomia*, v. 26, pp. 29–39 (ISSN 2764-9423)
- 2024 Volunteer at UFRGS Open Doors Day
- 2023 Volunteer at UFRGS Open Doors Day

Programming skills and languages

Programming Languages Python, R, C, bash, \LaTeX

Languages **Portuguese**: Native; **English**: Advanced (TOEFL ITP — 2023: 610/677); **Spanish**: Intermediate; **Italian**: Basic

References

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