

# Augusto E. Lassen

## Curriculum Vitae

Astrophysics Postdoctoral Researcher

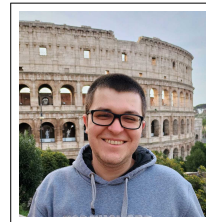
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*Last updated on: June 10, 2025*

## 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.

## Publications

### Journal Articles

- 2025 Keerthana Jegatheesan, Evelyn J. Johnston, Boris Häußler, **Augusto E. Lassen**, Rogério Riffel, and Ana L. Chies-Santos. Dual-component stellar assembly histories in local elliptical galaxies via MUSE. **A&A**, volume 694, page A224, February 2025.
- 2024 L. G. Dahmer-Hahn, A. L. Chies-Santos, E. Eftekhari, E. Zanatta, R. Riffel, A. Vazdekis, A. Villaume, M. A. Beasley, and **A. E. Lassen**. Extragalactic globular cluster near-infrared spectroscopy: I. Integrated near-infrared spectra of Centaurus A/NGC 5128. **A&A**, volume 690, page A93, October 2024.
- 2024 Angela Adamo, Larry D. Bradley, Eros Vanzella, Adélaïde Claeysens, Brian Welch, Jose M. Diego, Guillaume Mahler, Masamune Oguri, Keren Sharon, Abdurro'uf, Tiger Yu-Yang Hsiao, Xinfeng Xu, Matteo Messa, **Augusto E. Lassen**, Erik Zackrisson, Gabriel Brammer, Dan Coe, Vasily Kokorev, Massimo Ricotti, Adi Zitrin, Seiji Fujimoto, Akio K. Inoue, Tom Resseguier, Jane R. Rigby, Yolanda Jiménez-Teja, Rogier A. Windhorst, Takuya Hashimoto, and Yoichi Tamura. Bound star clusters observed in a lensed galaxy 460 Myr after the Big Bang. **Nature**, volume 632, pages 513–516, August 2024.
- 2023 Gabriel M. Azevedo, Ana L. Chies-Santos, Rogério Riffel, Jean M. Gomes, **Augusto E. Lassen**, João P. V. Benedetti, Rafael S. de Souza, and Quanfeng Xu. Spatially resolved self-consistent spectral modelling of jellyfish galaxies from MUSE with FADO: trends with mass and stripping intensity. **MNRAS**, volume 523, pages 4680–4692, August 2023.
- 2021 **Augusto E. Lassen**, Rogério Riffel, Ana L. Chies-Santos, Evelyn Johnston, Boris Häußler, Gabriel M. Azevedo, Daniel Ruschel-Dutra, and Rogemar A. Riffel. The metal-poor dwarf irregular galaxy candidate next to Mrk 1172. **MNRAS**, volume 506, pages 3527–3539, September 2021.

### In Conference Proceedings

- 2021 **Augusto E. Lassen**, Rogério Riffel, Ana L. Chies-Santos, Evelyn Johnston, Boris Häußler, Daniel R. Dutra, and Gabriel M. Azevedo. *An Extended Emission Line Region around Mrk 1172*. In *Galaxy Evolution and Feedback across Different Environments*, volume 359 of *IAU Symposium*, pages 438–440, January 2021.
- 2021 Gabriel M. Azevedo, Ana L. Chies Santos, Rogério Riffel, **Augusto E. Lassen**, Marina Trevisan, Nicolas Mallmann, Fernanda Oliveira, and Jean Gomes. *Stellar population synthesis of jellyfish galaxies*. In *Galaxy Evolution and Feedback across Different Environments*, volume 359 of *IAU Symposium*, pages 255–256, January 2021.

## 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 **SOAR**, *Near-Infrared spectroscopy of globular clusters in Centaurus A for testing stellar population models*, 20 hours.
- 2024 **MeerKAT**, *Driving rapid galaxy evolution via mergers: The dramatic Blue Compact Dwarf Galaxy ESO 400-43*, 30 hours.

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## 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

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## 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

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## 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.

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## Scientific talks and posters

- 2024 **BlueMUSE Science Meeting** (Remote science meeting). *Talk*. Title: 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*. Title: The metal-poor dwarf irregular galaxy candidate next to Mrk 1172
- 2020 **14th S-PLUS Collaboration Meeting** (Remote science meeting). *Poster*. Title: 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*. Title: Spatially resolved stellar population synthesis of dwarf irregular candidates
- 2019 **12th S-PLUS Collaboration Meeting** (São Paulo, BR). *Talk*. Title: 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*. Title: Spatially resolved stellar population synthesis with MUSE

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## 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

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## Services & Outreach

- 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: 610/677) **Italian:** Basic **Spanish:** Basic

## References

**Dr. Rogério Riffel** 

*Associate Professor*

*Department of Astronomy*

Universidade Federal do Rio Grande do Sul (UFRGS)

✉ riffel@ufrgs.br

**Dra. Ana Leonor Chies Santiago Santos** 

*Assistant Professor*

*Department of Astronomy*

Universidade Federal do Rio Grande do Sul (UFRGS)

✉ ana.chies@ufrgs.br

**Dra. Benedetta Vulcani** 

*Staff Researcher*

*Istituto Nazionale di Astrofisica (INAF)*

Osservatorio Astronomico di Padova

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