

Carlos Eduardo Barbosa

| Curriculum Vitae

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Academic Experience

Departamento de Astronomia, IAG, Universidade de São Paulo

FAPESP Postdoctoral Fellow

Supervisor: Prof. Cláudia Mendes de Oliveira

Steward Observatory, University of Arizona

Research Associate

Supervisor: Prof. Dennis Zaritsky

São Paulo

Dec 2016 – Now

Tucson

Feb 2019 – Jan 2020

Education

2012 - 2016 PhD in Astronomy, Universidade de São Paulo, IAG.....

Title: *Kinematics and Stellar Populations in the Nearby Universe*

Supervisor: Prof. Cláudia Mendes de Oliveira

Funding: FAPESP

2009 - 2011 MSc in Astronomy, Universidade de São Paulo, IAG.....

Title: *Photometry, Decomposition and Correlations for Nearby Spiral Galaxies from the GHASP Survey*

Supervisor: Prof. Cláudia Mendes de Oliveira

Funding: CNPq, FAPESP

2005 - 2009 BSc in Physics, Universidade de São Paulo, Institute of Physics.....

Undergraduate Research in Theoretical Biophysics: *The role of the anesthetics on neural signal propagation and the cellular membrane thermomechanic properties*

Supervisor: Prof. Carla Goldman

Funding: CNPq

Fellowships

FAPESP Research Internships Abroad (BEPE)

Steward Observatory, University of Arizona

Tucson

Feb 2019 – Jan 2020

FAPESP Postdoctoral Fellowship

IAG, Universidade de São Paulo

São Paulo

Dec 2016 – Jan 2020

FAPESP Research Internships Abroad (BEPE)

European Southern Observatory

Munich

Mar 2013 – Feb 2014

FAPESP Doctoral Fellowship

IAG, Universidade de São Paulo

São Paulo

Jan 2012 – Jun 2016

FAPESP Masters Fellowship

IAG, Universidade de São Paulo

São Paulo

Mar 2010 – Jul 2011

CNPq Undergraduate Fellowship
Institute of Physics, Universidade de São Paulo

São Paulo
Aug 2008 – Jul 2010

Memberships

International Astronomical Union: Junior member.

Brazilian Astronomical Society: Effective member.

Organizing Committees

SPANet Workshop on Clusters of Galaxies and the Large-Scale Structure of the Universe **São Paulo**
IAG, Universidade de São Paulo, Local organizing committee *Mar 2018*

ESO/NUVA/IAG Workshop on Challenges in UV Astronomy **Munich**
ESO, Local organizing committee *Oct 2013*

Professional Experience

Administrative Intern **São Paulo**
Library, Biomedical Sciences Institute, Universidade de São Paulo *2006 – 2008*

CNC Lathe Operator **São Paulo**
York International *2000 – 2005*

References

Cláudia Mendes de Oliveira

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Dennis Zaritsky

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United States
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Publications

- T. Richtler, M. Hilker, M. Arnaboldi, and **C. E. Barbosa**. “Dust and star formation in the centre of NGC 3311”. In: *A&A* (2020, submitted)
- **Barbosa, C. E.**, D. Zaritsky, R. Donnerstein, H. Zhang, C. E.. Dey ABarbosa, C. Mendes de Oliveira, L. Sampedro, A. Molino, M. V. Costa-Duarte, P. Coelho, A. Cortesi, F. R. Herpich, J. A. Hernandez-Jimenez, T. Santos-Silva, E. Pereira, A. Werle, R. A. Overzier, R. Cid Fernandes, A. V. Smith Castelli, T. Ribeiro, W. Schoenell, and A. Kanaan. “One hundred SMUDGes in S-PLUS: ultra-diffuse galaxies flourish in the field”. In: *arXiv e-prints*, arXiv:2002.05171 (Feb. 2020), arXiv:2002.05171. arXiv: 2002.05171 [astro-ph.GA]
- C. Mendes de Oliveira, T. Ribeiro, W. Schoenell, A. Kanaan, R. A. Overzier, A. Molino, L. Sampedro, P. Coelho, **C. E. Barbosa**, et al. “The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters”. In: *MNRAS* 489.1 (Oct. 2019), pp. 241–267. DOI: 10.1093/mnras/stz1985. arXiv: 1907.01567 [astro-ph.GA]
- M. V. Costa-Duarte, L. Sampedro, A. Molino, H. S. Xavier, F. R. Herpich, A. L. Chies-Santos, C. E. Barbosa, A. Cortesi, W. Schoenell, A. Kanaan, T. Ribeiro, C. Mendes de Oliveira, S. Akas, A. Alvarez-Candal, **C. E. Barbosa**, et al. “The S-PLUS: a star/galaxy classification based on a Machine Learning approach”. In: *arXiv e-prints*, arXiv:1909.08626 (Sept. 2019), arXiv:1909.08626. arXiv: 1909.08626 [astro-ph.GA]
- A. Molino, M. V. Costa-Duarte, L. Sampedro, F. R. Herpich, Jr. Sodr  L., C. Mendes de Oliveira, W. Schoenell, **C. E. Barbosa**, et al. “Assessing the photometric redshift precision of the S-PLUS survey: the Stripe-82 as a test-case”. In: *arXiv e-prints*, arXiv:1907.06315 (July 2019), arXiv:1907.06315. arXiv: 1907.06315 [astro-ph.GA]
- M. Hilker, T. Richtler, **C. E. Barbosa**, M. Arnaboldi, L. Coccato, and C. Mendes de Oliveira. “The Hydra I cluster core. II. Kinematic complexity in a rising velocity dispersion profile around the cD galaxy NGC 3311”. In: *A&A* 619, A70 (Nov. 2018), A70. DOI: 10.1051/0004-6361/201731737. arXiv: 1809.01163
- **C. E. Barbosa**, M. Arnaboldi, L. Coccato, O. Gerhard, C. Mendes de Oliveira, M. Hilker, and T. Richtler. “Sloshing in its cD halo: MUSE kinematics of the central galaxy NGC 3311 in the Hydra I cluster”. In: *A&A* 609, A78 (Jan. 2018), A78. DOI: 10.1051/0004-6361/201731834. arXiv: 1710.08941
- **C. E. Barbosa**, M. Arnaboldi, L. Coccato, M. Hilker, C. Mendes de Oliveira, and T. Richtler. “The Hydra I cluster core. I. Stellar populations in the cD galaxy NGC 3311”. In: *A&A* 589, A139 (May 2016), A139. DOI: 10.1051/0004-6361/201628137. arXiv: 1603.02202
- **C. E. Barbosa**, C. Mendes de Oliveira, P. Amram, F. Ferrari, D. Russeil, B. Epinat, V. Perret, C. Adami, and M. Marcelin. “GHASP: an H α kinematic survey of spiral galaxies - X. Surface photometry, decompositions and the Tully-Fisher relation in the R_c band”. In: *MNRAS* 453 (Nov. 2015), pp. 2965–2981. DOI: 10.1093/mnras/stv1685. arXiv: 1508.03004
- **C. E. Barbosa**, M. Arnaboldi, M. Hilker, L. Coccato, T. Richtler, and C. Mendes de Oliveira. “A 3D view of the Hydra I cluster core- II. Stellar populations”. In: *IAU Symposium*. Ed. by B. L. Ziegler, F. Combes, H. Dannerbauer, and M. Verdugo. Vol. 309. IAU Symposium. Feb. 2015, pp. 223–224. DOI: 10.1017/S1743921314009727. arXiv: 1410.0696
- M. Hilker, **C. E. Barbosa**, T. Richtler, L. Coccato, M. Arnaboldi, and C. Mendes de Oliveira. “A 3D view of the Hydra I galaxy cluster core - I. Kinematic substructures”. In: *IAU Symposium*. Ed. by

B. L. Ziegler, F. Combes, H. Dannerbauer, and M. Verdugo. Vol. 309. IAU Symposium. Feb. 2015, pp. 221–222. DOI: 10.1017/S1743921314009715. arXiv: 1410.0695

- J. C. Basto Pineda, C. Mendes de Oliveira, **C. E. Barbosa**, P. Amram, and V. Perret. “The CUSP/CORE problem from a 2D view”. In: *Dark Side of the Universe (DSU 2012)*. 2012, p. 23