

# Carlos Eduardo Barbosa

## | Curriculum Vitae

933 N Cherry Ave – AZ 85719 – USA

✉ kadu.barbosa@gmail.com • 🌐 www.cebarbosa.com  
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## Academic Experience

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**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

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**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

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**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

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**International Astronomical Union:** Junior member.

**Brazilian Astronomical Society:** Effective member.

## Organizing Committees

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**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

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

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

## References

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**Cláudia Mendes de Oliveira**

Department of Astronomy  
IAG-USP  
R. do Matão, 1226  
05508-090 São Paulo  
Brazil  
claudia.oliveira@iag.usp.br

**Lodovico Coccato**

Science Data Product group  
European Southern Observatory  
Karl-Schwarzschild-str., 2  
85748 Garching b. München  
Germany  
lcoccato@eso.org

**Paula Coelho**

Department of Astronomy  
IAG-USP  
R. do Matão, 1226  
05508-090 São Paulo  
Brazil  
pcoelho@usp.br

## Publications

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**Barbosa, C. E.**, D. Zaritsky, R. Donnerstein, H. Zhang, C. E. Dey, A. Barbosa, 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. *arXiv e-prints*, art. arXiv:2002.05171, Feb 2020.

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. *MNRAS*, 489(1):241–267, Oct 2019. doi: 10.1093/mnras/stz1985.

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. *arXiv e-prints*, art. arXiv:1909.08626, Sep 2019.

A. Molino, M. V. Costa-Duarte, L. Sampedro, F. R. Herpich, Jr. Sodré, 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. *arXiv e-prints*, art. arXiv:1907.06315, Jul 2019.

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. *A&A*, 619:A70, November 2018. doi: 10.1051/0004-6361/201731737.

**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. *A&A*, 609:A78, January 2018. doi: 10.1051/0004-6361/201731834.

**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. *A&A*, 589:A139, May 2016. doi: 10.1051/0004-6361/201628137.

**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 $\alpha$  kinematic survey of spiral galaxies - X. Surface photometry, decompositions and the Tully-Fisher relation in the R<sub>c</sub> band. *MNRAS*, 453:2965–2981, November 2015a. doi: 10.1093/mnras/stv1685.

**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 B. L. Ziegler, F. Combes, H. Dannerbauer, and M. Verdugo, editors, *IAU Symposium*, volume 309 of *IAU Symposium*, pages 223–224, February 2015b. doi: 10.1017/S1743921314009727.

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 B. L. Ziegler, F. Combes, H. Dannerbauer, and M. Verdugo, editors, *IAU Symposium*, volume 309 of *IAU Symposium*, pages 221–222, February 2015. doi: 10.1017/S1743921314009715.

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)*, page 23, 2012.