Carlos Eduardo Barbosa
| Curriculum Vitae

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Academic Experience

Steward Observatory, University of Arizona — **Tucson**
Research Associate — *Feb 2019 – Now*
Supervisor: Prof. Dennis Zaritsky

Departamento de Astronomia, IAG, Universidade de São Paulo — **São Paulo**
FAPESP Postdoctoral Fellow — *Dec 2016 – Now*
Supervisor: Prof. Cláudia Mendes de Oliveira

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 thermomecanic properties*

Supervisor: Prof. Carla Goldman

Funding: CNPq

Fellowships

FAPESP Research Internships Abroad (BEPE) — **Tucson**
Steward Observatory, University of Arizona — *Feb 2019 – Jan 2020*

FAPESP Postdoctoral Fellowship — **São Paulo**
IAG, Universidade de São Paulo — *Dec 2016 – Jan 2020*

FAPESP Research Internships Abroad (BEPE) — **Munich**
European Southern Observatory — *Mar 2013 – Feb 2014*

FAPESP Doctoral Fellowship — **São Paulo**
IAG, Universidade de São Paulo — *Jan 2012 – Jun 2016*

FAPESP Masters Fellowship — **São Paulo**
IAG, Universidade de São Paulo — *Mar 2010 – Jul 2011*

CNPq Undergraduate Fellowship **São Paulo**
Institute of Physics, Universidade de 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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Publications

C. E. Barbosa, D. Zaritsky, R. Donnerstein, H. Zhang, A. Dey, C. M. 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. submitted to ApJS.

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. Akras, 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 Hα kinematic survey of spiral galaxies - X. Surface photometry, decompositions and the Tully-Fisher relation in the R_c 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.