Carlos Eduardo Barbosa Curriculum Vitae

Rua do Matão, 1226 - Butantã, São Paulo - SP - 05508-090 - Brazil

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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.....

Academic Experience

Departamento de Astronomia, IAG, Universidade de São Paulo

São Paulo FAPESP Postdoctoral Fellow Dec 2016 - Now

Supervisor: Prof. Cláudia Mendes de Oliveira

Steward Observatory, University of Arizona Tucson Research Associate Feb 2019 - Jan 2020

Supervisor: Prof. Dennis Zaritsky

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

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

IAG, Universidade de São Paulo

CNPq Undergraduate Fellowship

Institute of Physics, Universidade de São Paulo

São Paulo

Mar 2010 - Jul 2011

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

IAG, Universidade de São Paulo, Local organizing committee

São Paulo Mar 2018

ESO/NUVA/IAG Workshop on Challenges in UV Astronomy

ESO, Local organizing committee

Munich Oct 2013

Multimedia

o Featured image, Needle in a Haystack, Revista FAPESP (March 2020), https://revistapesquisa. fapesp.br/2020/03/05/agulha-no-palheiro-2/

Cover image, A&A Volume 589 (May 2016), https://www.aanda.org/articles/aa/abs/2016/05/ contents/contents.html

References

Cláudia Mendes de Oliveira Magda Arnaboldi

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Dennis Zaritsky

Steward Observatory University of Arizona 933 N Cherry Ave, Tucson, AZ 85719, United States dennis.zaritsky@gmail.com

Publications

- C. Lima-Dias, A. Monachesi, S. Torres-Fores, A. Cortesi, D. Hernández-Lang, C. E. Barbosa, C. Mendes de Oliveira, et al. "An environmental dependence of the physical and structural properties in the Hydra Cluster galaxies". In: MNRAS (2020, submitted)
- T. Richtler, M. Hilker, M. Arnaboldi, and C. E. Barbosa. "Dust and star formation in the centre of NGC 3311". In: $A \mathcal{E} A$ (2020, submitted)
- o C. E. Barbosa, D. Zaritsky, R. Donnerstein, H. Zhang, A. Dey, C. Mendes de Oliveira, L. Sampedro, A. Molino, M. V. Costa-Duarte, P. Coelho, A. Cortesi, F. R. Herpich, J. A. Hernand ez-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: ApJS 247.2, 46 (Apr. 2020), p. 46. DOI: 10.3847/1538-4365/ab7660. arXiv: 2002.05171 [astro-ph.GA]
- o 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]
- o 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". In: arXiv e-prints, arXiv:1909.08626 (Sept. 2019), arXiv:1909.08626. arXiv: 1909.08626 [astro-ph.GA]
- o 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". In: arXiv e-prints, arXiv:1907.06315 (July 2019), arXiv:1907.06315. arXiv: 1907.06315 [astro-ph.GA]
- o 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
- o 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
- o 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
- o 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.

- o 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
- o 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