

Maria Luiza Linhares Dantas

Curriculum Vitae

University of Sao Paulo
Institute of Astronomy, Geophysics,
and Atmospheric Sciences
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Dubitando ad veritatem parvenimus - Cicerone

Educational Background

2015 **PhD Extragalactic Astrophysics**, *Institute of Astronomy, Geophysics, and Atmospheric Sciences - University of São Paulo* (hereafter IAG-USP), São Paulo, Brazil.

2013
2015 **MSc Extragalactic Astrophysics**, *IAG-USP*, São Paulo, Brazil.

2007
2011 **BSc Physics**, *Institute of Physics - University of São Paulo* (hereafter IF-USP), São Paulo, Brazil.
Major in Astrophysics

Theses

PhD Thesis

TITLE The UV Emission in Early-Type Galaxies: A Modern Approach
ADVISOR Professor Paula R. T. Coelho.
FUNDING AGENCY Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (hereafter CAPES)

MSc Thesis

TITLE The Relation Between the Spectral Synthesis of Galaxies in the Optical Region and Their UV Emission
ADVISOR Professor Laerte Sodré Jr.
FUNDING AGENCY CAPES

BSc Thesis

TITLE Infrared Photometry of Young Star Clusters
ADVISORS Professors Jacques Lépine & Roberto Ortiz

Research Projects

Undergraduate Research Project

The Study of the HII Region G331.5-0.2 in the Radio Continuum Through the Stellar Population Using the 2MASS Catalog.

2007
2009

ADVISOR Professor Zulema Abraham

FUNDING AGENCY Conselho Nacional de Desenvolvimento Científico e Tecnológico (hereafter CNPq)

Research Interests

EXTRAGALACTIC ASTROPHYSICS

- Galaxy Evolution
- Spectral Synthesis Models
- Chemical Evolution of the Universe
- UV Astrophysics

OTHERS ○ Astrostatistics

Affiliations

Scientific

BRAZIL Sociedade Astronômica Brasileira (hereafter **SAB**) (*Brazilian Astronomical Society*)

INTERNATIONAL ASSOCIATIONS International Astrostatistics Association (**IAA**), Cosmostatistics Initiative (**COIN**), Javalambre Physics of the Accelerating Universe (**J-PAS**)

Other

Overleaf Advisor (<https://www.overleaf.com/advisors>)

Zero Waste Bloggers Network, Inc. (non-profit organization) (<http://zerowastebloggersnetwork.com>)

Teaching Experience

Teaching Assistant

2014

Galactic and Extragalactic Astrophysics, IAG-USP, São Paulo, Brazil.
SUPERVISOR Professor Ronaldo Eustáquio de Souza

FUNDING AGENCY IAG-USP

2014

Topics on Astronomy to Undergraduate Students with Major in Pedagogy, IAG-USP, São Paulo, Brazil.
SUPERVISOR Professor Nelson Vani Leister

FUNDING AGENCY IAG-USP

2010

Topics on Astronomy to Geophysicists, IAG-USP, São Paulo, Brazil.
SUPERVISOR Professor Enos Picazzio

FUNDING AGENCY None (volunteer tutoring)

2010

Position Astronomy, IAG-USP, São Paulo, Brazil.
SUPERVISOR Professor Ramachrisna Teixeira

FUNDING AGENCY IAG-USP

2009

Introduction to Astronomy, IAG-USP, São Paulo, Brazil.
SUPERVISOR Professor Vera Jatenco Pereira

FUNDING AGENCY IAG-USP

Outreach Projects

2010
2011

Astronomia Para Todos (Astronomy for Everybody), IAG-USP, São Paulo, Brazil.

SUPERVISOR Professor Enos Picazzio

DESCRIPTION This project had as main goal to develop a book and a website in order to update and spread Astronomy topics to school teachers

FUNDING AGENCY CNPq

Private Teaching

2007

Physics & Mathematics.

Sporadic private teaching to school students (children and adolescents)

Languages

Portuguese Native

English Fluent

Certificate of Proficiency in English
University of Michigan

French Fluent

Diplôme Approfondi de Langue Française (DALF)
Centre International d'Études Pédagogiques

Spanish Basic Fluency

Good Understanding, Medium Speaking, Basic Writing

German Basic Fluency

Good Understanding, Medium Speaking, Basic Writing

Skills

Programming Python, R, SQL Databases, \LaTeX

Tools GitHub, PyCharm, BitBucket

Program Version Control and Program Repositories.

Other Skills Communication, Organization, Writing, Translation

Participation In Events

2015

XVII Advanced School on Astrophysics, Campos do Jordão, Brazil.

2015

Second COIN Residence Program, Cowes, Isle of Wight, United Kingdom.

2015

First Python Boot Camp, IAG-USP, São Paulo, Brazil.

Local Organizing Committee Member & Scientific Organizing Committee Member
TALKS Handling Data & Data Visualization

2015

Second Brazilian J-PAS/A-PLUS Meeting, IAG-USP, São Paulo, Brazil.

2014

XIX Special Courses Cycle, National Observatory, Rio de Janeiro, Brazil.

2014

XXXVIII Brazilian Astronomical Society Meeting, Búzios, Brazil.

POSTER TITLE The Relation Between the Spectral Synthesis of Galaxies in the Optical and Their UV Emission

2013

XIV Latin American Regional IAU Meeting, Florianópolis, Brazil.

POSTER TITLE The Relation Between the Spectral Synthesis of Galaxies in the Optical and Their UV Emission

2013

I First Winter School of the Valongo Observatory, Rio de Janeiro, Brazil.

2013

USP Conference on Cosmology, University of São Paulo, São Paulo, Brazil.

2012

XVI Advanced School on Astrophysics, Itatiba, Brazil.

2012

I BRAVO VO School, São Paulo, Brazil.

2009

XXVII IAU General Meeting, Rio de Janeiro, Brazil.

Participation as a volunteer undergraduate student.

2009

XIV Undergraduate Research Symposium, IAG-USP, São Paulo, Brazil.

POSTER TITLE The Study of the HII Region G331.5-0.2 in the Radio Continuum Through the Stellar Population Using the 2MASS Catalog

Event Organization

2015

1st Python Boot Camp, IAG-USP, São Paulo, Brazil.

Member of the Local Organizing Committee and the Scientific Organizing Committee
For more information, please access the website:

<http://www.astro.iag.usp.br/~pythonbootcamp>.

2013

Journal Club, IAG-USP, São Paulo, Brazil.

Journal Club is an initiative focused on sharing new and interesting publications and important information among graduate students and post-doctoral fellows - although, all members of the department are welcome to participate, whether as lecturers or as audience.

The main goals of Journal Club are:

- To provide a friendly environment in which everyone can improve their presentation skills;
- To spread the newest and most important publications in all fields of Astrophysics and correlated areas among the target audience, in order to keep everyone updated in terms of research;
- To share important information and guidance about general issues regarding academia (e.g. "How to prepare for a talk?", "How to write a paper", etc.).

For more information, please access our website:

<http://www.astro.iag.usp.br/~journalclub/>

Other Professional Experiences

2012

Freelance Translator at Gengo, English-Portuguese, see: gengo.com.

Translated for several clients such as: Airbnb, TripAdvisor, BuzzFeed, Aliexpress, among others.

2015

Development of Physics Courseware Material, Edições SM, São Paulo, Brazil.

Developed Physics texts, exercises, and teacher's manual to be published in Middle School books.

2015

Development of Physics Courseware Material, Oxford University Press, São Paulo, Brazil.

Developed Physics texts, exercises, and teacher's manual to be published in High School books.

2012

Substitute Teacher, Fundação Bradesco, São Paulo, Brazil.

Acted sporadically as a substitute teacher at Fundação Bradesco for High School level students.

2012

Project Analyst, Luz Engenharia Financeira, São Paulo, Brazil.

Implemented Risk Software for Customers - e.g. Banks and other financial institutions.

2011

Trainee in Finance, Luz Engenharia Financeira, São Paulo, Brazil.

Implemented Risk Software for Customers - e.g. Banks and other financial institutions.

2010
2011

Computer Laboratory Tutor, IF-USP, São Paulo, Brazil.

Provided guidance to undergraduate students and controlled the use of the computers

FUNDING AGENCY

IF-USP

Other Certificates

Programming

The Data Scientist's Toolbox

Johns Hopkins Bloomberg School of Public Health & Coursera

With Distinction

- English** *Certificate of Proficiency in English*
University of Michigan
- French** *Diplôme Approfondi de Langue Française (DALF)*
Centre International d'Études Pédagogiques
Diplôme d'Études Françaises (2^{ème} degré)
Université Nancy 2
Certificat Pratique de Langue Française (1^{er} degré)
Université Nancy 2
- Finance** *Aprenda a Investir na Bolsa de Valores*
(Learn How to Invest in the Stock Market)
XP Educação
Mercado de Ações: Conceitos e Definições
(Stock Market: Concepts and Definitions)
Bolsa de Valores de São Paulo (hereafter BM&F Bovespa)
Mercados Futuros: Conceitos e Definições
(Future Markets: Concepts and Definitions)
BM&F Bovespa
Matemática Financeira: Tópicos em Finanças
(Financial Mathematics: Topics on Finance)
BM&F Bovespa
Mercado de Opções: Conceitos e Definições
(Options Market: Concepts and Definitions)
BM&F Bovespa
Mercado de Swaps
(Swap Market)
BM&F Bovespa
- Others** *Learning How to Learn: Powerful Mental Tools to Help You Master Tough Subjects*
University of California, San Diego (UC San Diego) & Coursera
With Distinction

Publications

[Benitez et al., 2014]

Benitez, N., Dupke, R., Moles, M., Sodre, L., (...), Costa-Duarte, M. V., da Costa, A. A., **Dantas, M. L. L.**, Diaz, A. Y., Fabregat, J., Ferrari, F., Gavela, B., Gracia, S. G., Gruel, N., Gutierrez, J. L. L., Guzman, R., Hernandez-Fernandez, J. D., Herranz, D., Hurtado-Gil, L., Jablonsky, F., Laporte, R., Le Tiran, L. L., Licandro, J., Lima, M., Martin, E., Martinez, V., Montero, J. J. C., Penteado, P., Pereira, C. B., Peris, V., Quilis, V., Sanchez-Portal, M., Soja, A. C., Solano, E., Torra, J., and Valdivielso, L. (2014). **J-PAS: The Javalambre-Physics of the Accelerated Universe Astrophysical Survey.** *ArXiv e-prints.*

[Dantas et al., 2016] Dantas, M. L. L., Costa-Duarte, M. V., Sodre, L., and de Souza, R. S. (2016). **Could we recover information from galaxies in the UV from optical data?** *In preparation*.

[de Souza et al., 2016] de Souza, R. S., **Dantas, M. L. L.**, Krone-Martins, A., Cameron, E., Coelho, P., Hattab, M. W., de Val-Borro, M., Hilbe, J. M., Elliott, J., Hagen, A., and for the COIN collaboration (2016). **Is the cluster environment quenching the Seyfert activity in elliptical and spiral galaxies?** *ArXiv e-prints*.

Invited Talks

2016 ● **Is the cluster environment quenching the Seyfert activity in elliptical and spiral galaxies?**, *Extragalactic Group Seminar*, IAG-USP, São Paulo, Brazil.

2015 ● **Astrostatistics: An Arising Field in Astrophysics**, *Journal Club*, IAG-USP, São Paulo, Brazil.

2013 ● **An Empirical Connection Between the UV Color of Early Type Galaxies and the Stellar Initial Mass Function**, *Journal Club*, IAG-USP, São Paulo, Brazil.

References

[Paula R. T. Coelho](#)

Professor

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[Rafael S. de Souza](#)

Post-Doctoral Researcher

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Budapest - Hungary

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