

# My Name 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

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## Research Projects

### Undergraduate Research Project

2007  
2009

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

**ADVISOR** Professor Zulema Abraham

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

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## Research Interests

**EXTRAGALACTIC ASTROPHYSICS**

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

**OTHERS** ◦ Astrostatistics

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## 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>)

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## 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

**1<sup>st</sup> 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](http://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<sup>ème</sup> degré)*  
Université Nancy 2  
*Certificat Pratique de Langue Française (1<sup>er</sup> 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**

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## Invited Talks

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

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

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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.

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## References

Paula R. T. Coelho

Professor

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