

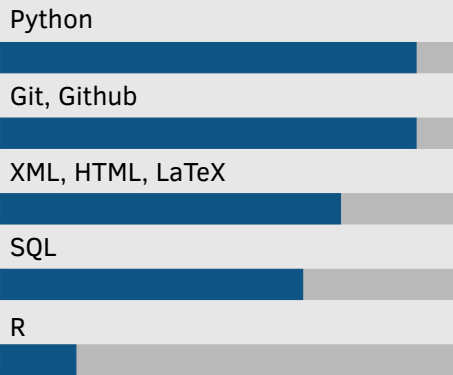


# Julia Gschwend

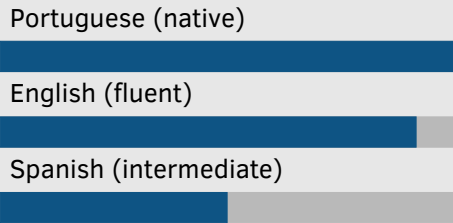
Data Scientist, PhD

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- Rua Visconde de Caravelas, 30.  
Botafogo, Rio de Janeiro - Brazil  
Zip code: 22271-022
- Birth date: 10/24/1984  
Nationalities:  
Brazilian and Swiss

## Programming



## Languages



## Soft Skills

- Agile methodology
- Jira Software
- Time management
- Organizational
- Teamwork
- Communication
- Clarity in document writing
- Problem-solving
- Adaptability
- flexibility
- Creativity
- Critical thinking
- Openness to criticism

## Profile

Data scientist with Physics and Astronomy background who works with the development of software infrastructure to provide big data analysis tools for astronomers. Member of LIneA (since 2012), DES-Brazil (since 2013), INCT do e-Universo and BPG-LSST (since 2016). DES builder (since 2016). Member of LSST Commissioning Team (since 2022).

## Positions

Current	Software Lead	Laboratório Interinstitucional de e-Astronomia
	Lead of software development team, developer of software infrastructure and web-based tools to support science based on astronomical data. Program Manager of the Brazilian in-kind contribution program in LSST.	
2019-2020	Data Scientist	Laboratório Interinstitucional de e-Astronomia
	Developer of the DES Science Portal, in charge of data preparation pipelines. Collaborator on Education and Public Outreach activities.	
2011-2012	Physics teacher	Universidade do Estado do Rio de Janeiro
	High school teacher at the University's Institute of Application	

## Formal Education

2015-2019	PhD. in Astronomy	Observatório Nacional
	<i>Thesis title: Evolution of galaxy populations in the Dark energy Survey</i>	
2013-2015	M.Sc. in Astronomy	Observatório Nacional
	<i>Dissertation title: Implementation of photometric redshift algorithms in the DES Science Portal.</i>	
2006-2010	B.Sc. in Physics	Universidade do Estado do Rio de Janeiro
	<i>Degree in Physics with licence for teaching.</i>	

## Courses and Workshops

2020-2022	ADASS XXX, ADASS XXXI, ADASS XXXII	online
	Topics: Astronomical Data Analysis Software & Systems.	
02/2019	Workshop in Data Science	LNCC
	Topics: Data analysis; Algorithms and programming models for big data; Deep Learning.	
08/2018	LSST Project and Community Workshop (Tucson, Arizona)	LSST
	Topics: LSST software stack club; Blending workshop.	
06/2018	Workshop Data Visualization and Exploration in the LSST Era	NCSA
	Topics: Containers and cloud technology; Machine and Deep Learning in astronomy; Scientific and professional visualizations; Scientific platforms Cosmology and cross surveys science; Data exploration tools; Time domain science and methods; Citizen science.	
02/2016	ESO/NEON Observing School	LaSilla-Chile
	Topics: Telescope optics; Introduction to detectors; Observations and data reduction: Imaging/photometry and Spectroscopy; Observation and data reductions in the NIR; Publication of multidimensional datasets; Technical aspects of ESO telescopes.	

## Publications

2018	Gschwend et al. - DES Science Portal: Computing Photometric Redshifts
2018	Fausti et al. - DES science portal: Creating science-ready catalogs
2016-2022	co-authorship in 300 other papers due to the DES buildership rights.