

Romain Thomas

Curriculum Vitae

European Southern Observatory
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Research Interests

- EXTRAGALACTIC ASTROPHYSICS**
- Galaxy evolution
 - Physical parameters of galaxies
 - Intergalactic medium
 - Spectroscopy and photometry

- OTHERS**
- Software development

Research Experience

2020

Faculty Astronomer, *European Southern Observatory*, Santiago de Chile.

2017

2020

ESO Fellowship, *European Southern Observatory*, Santiago de Chile.

2015

2017

Post-Doctoral researcher, *University of Valparaíso*, Valparaíso, Chile.

Educational Background

2011

2014

PhD Extragalactic Astrophysics and Cosmology, *Laboratoire d'Astrophysique de Marseille*, France.

Estimation of galaxy ages in the VUDS survey

2008

2011

Magistère of Fundamental Physics, *University Paris-Sud XI*, Orsay, France.

2009

2011

MSc Fundamental Physics, *University Lyon I*, Lyon, France.

2006

2009

BSc Fundamental Physics, *University of Paris-Sud XI*, Orsay, France.

International Collaborations

2018

ATACAMA, *Science analysis, primary tool developer*.

PI: Pascale Hibon

2017	ALPINE , <i>Science analysis</i> . PI: Olivier Le Fèvre
2015	VANDELS , <i>Observation at Paranal, science analysis</i> . PI: L. Pentericci, R. McLure
2011	VIMOS Ultra Deep Survey , <i>Data reduction, determination of redshifts, manager of the spectro-photometric calibration, science analysis</i> . PI: Olivier Le Fèvre

Observatory Experience

2019	UT1 Support Astronomer , <i>ESO</i> , Paranal, Chile.
2018	KMOS fellow , <i>ESO</i> , Paranal, Chile.
2018	Review and migration of SciOps softwares to a common environment , <i>ESO</i> , Paranal, Chile.
2018	EFOSC and NTT observations , <i>ESO</i> , La Silla, Chile.
2017	UT2 Support Astronomer , <i>ESO</i> , Paranal, Chile.
2017	X-shooter fellow , <i>ESO</i> , Paranal, Chile.
2015 2017	VIMOS observations , <i>ESO</i> , Paranal, Chile.

Press Release

2018	Largest Galaxy Proto-Supercluster Found , <i>eso1833</i> , co-Investigator.
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Programming [Clic to go to doc!]

Author of Python
modules

2019	dfitspy , <i>dfits/fitsort in python</i> , Last version: v19.3.4.
2019	catscii , <i>Simple catalog query module</i> , Last Version: v1.3.
2019	Ephemerides , <i>Module to access ESO ephemerides</i> , Last Version: v19.9.1.

Author of Softwares

2019	SCUBA , <i>Master Science Operation Software for quality control and data analyses</i> , ESO proprietary.
2019	Photon , <i>Graphical Interface for publication quality plots</i> , Last Version: v0.3.5.
2019	SEDOBS , <i>Observed galaxy simulation</i> , Last Version: v0.2.0.
2019	stpip , <i>pypi statistic web-scraping</i> , Last version: v19.3.6.

- 2019 **catmatch**, *Simple catalog cross-matching tool*, Last Version: v1.3.
- 2019 **specstack**, *Spectrum stacking algorithm tool*, Last Version: v19.4.0.
- 2020 **SPARTAN**, *Multi-type Galaxy SED-fitting tool*, To be released.
- 2020 **Loots**, *List python imports*, Last version: 20.2.1.
- 2020 **ATACAMA**, *Lyman Alpha Blob systematic search tool*, In Prep..

Tools GitHub, BitBucket, SVN, LaTeX, sextractor

Event Organization

- 2019 **ESO spectroscopic surveys: past, present and future of galaxy evolution**, *ESO*, Santiago, Chile. Member of the Local Organizing Committee.
- 2019 **3rd Python Boot Camp**, *ESO*, Santiago, Chile.
Main Organizer of ESOPy3.0: A workshop about Python for Astronomy at ESO (>30 participants)
- 2019 **The La Silla Observatory - from the inauguration to the future**, *ESO*, La Serena, Chile. Member of the Local Organising Committee.
- 2018 **Multiple fellow meetings**, *ESO*, Santiago de Chile.
- 2018 **2nd Python Boot Camp**, *ESO*, Santiago, Chile.
Main Organizer of ESOPy2.0: A workshop about Python for Astronomy at ESO (>30 participants)
- 2017 **ESO PyCoffees, main organizer and multiple talks**, *European Southern Observatory*, Santiago de Chile.
- 2015 **PyCoffees, main organizer and multiple talks**, *University of Valparaiso*, Valparaiso, Chile.
- 2013 **Astro-ph talks**, *Laboratoire d'Astrophysique de Marseille*, France.
- 2011 **Tea time chats, informal science talks for/from PhD students and Postdocs**, *Laboratoire d'Astrophysique de Marseille*, France.

Student Mentoring and Teaching

- 2019 **Co-supervision of Paranal Science Operation internship with E. Sedaghati.**, *ESO*, Paranal Observatory, Chile.
- 2019 **Master Internship Co-Supervisor: Francis Tang (ATACAMA project)**, *ESO*, Santiago, Chile.
- 2019 **ESOPy3.0: Five lectures**, *ESO*, Santiago, Chile.
- 2018 **High-School Internship, Elisa Bornscheuer**, *ESO*, Santiago, Chile.
- 2018 **ESOPy2.0: Three lectures**, *ESO*, Santiago, Chile.

2016

Responsible of the SED-fitting lecture, Bachelor and Master Degree of Astrophysics, University of Valparaiso, Valparaiso, Chile.

2010
2011

Oral examiner in engineer prep school, More than 50 examinations (includes exam preparation, exam, and grading). Spanning electromagnetism, thermodynamics, optics, mechanics, etc., Lycee Etienne Mimard, Saint Etienne, France.

Grants and Awards

2019

SSDF grant, ESO, Santiago, Chile.

In collaboration with Dr. Eleonora Sani (ESO) and Dr. Aleksandra Solarz (NCBJ, Poland). Big Data applied to Astronomy: finding anomalies in full sky surveys.

2019

SSDF grant, ESO, Santiago, Chile.

In collaboration with Dr. Pascale Hibon (ESO), ATACAMA project. Lyman Alpha Blobs systematic search.

2016

ASPEN conference serie travel grant, Aspen, United States.

2015

PhD thesis award, Doctoral School ED352, University of Aix Marseille, France.

Extra functional Duties

2019

Referee, American Astronomical Society & Journal of Open Source Software.

2018

Fellow representative, ESO, Santiago de Chile.

2018

Referee, Astronomy and Computing.

2011

2015

Elected member of the Laboratory council, Laboratoire d'Astrophysique de Marseille.

2011

2015

Elected member of the Science council, Laboratoire d'Astrophysique de Marseille.

Languages

French Native

English Fluent

Spanish Basic