Romain Thomas

Curriculum Vitae

European Southern Observatory Alonso de Córdova 3107, Vitacura, Región Metropolitana Santiago de Chile, Chile # +56 9 64407425 □ rthomas@eso.org astrom-tom □ romain.alexis.gerard.thomas@gmail.com

Research Interests

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

OTHERS • Software development

Research Experience

2017

Post-Doctoral Fellow, European Southern Observatory, Santiago de Chile. Galaxy evolution at various redshifts (0.5 < z < 5+) using spectral and photometric

2015 2017

Post-Doctoral researcher, University of Valparaiso, Valparaiso, Chile. Intergalactic medium extinction up to $z\sim4.5$, software development [SPARTAN]

Educational Background

PhD Extragalactic **Astrophysics** and Cosmology, Laboratoire d'Astrophysique de Marseille, France. Estimation of galaxy ages in the VUDS survey

2011

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

2006 2009

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

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

International Collaborations

2018

ATACAMA, Science analysis, primary tool developer.

PI: Pascale Hibon

2017

ALPINE, Science analysis.

PI: Olivier Le Fèvre

| 2015 | VANDELS , Observation at Paranal, science analysis. Pl: L. Pentericci, R. McLure |
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| 2011 | VIMOS Ultra Deep Survey , <i>Data reduction, determination of redshifts, manager of the spectro-photometric calibration, science analysis.</i> Pl: Olivier Le Fèvre |
| | Observatory Experience |
| 2019 | UT1 Support Astronomer, ESO, Paranal, Chile. |
| 2018 | KMOS fellow, ESO, Paranal, Chile. |
| 2018 | Review and migration of SciOps softwares to a common environment, <i>ESO</i> , Paranal, Chile. |
| 2018 | EFOSC and NTT observations, ESO, La Silla, Chile. |
| 2017 | UT2 Support Astronomer, ESO, Paranal, Chile. |
| 2017 | X-shooter fellow, ESO, Paranal, Chile. |
| 2015 | VIMOS observations, ESO, Paranal, Chile. |
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| | Press Release |
| 2018 | Largest Galaxy Proto-Supercluster Found, eso1833, co-Investigator. |
| | Programming [Clic to go to doc!] |
| Author of Python modules | |
| 2019 | dfitspy, dfits/fitsort in python, Last version: v19.3.4. |
| 2019 | catscii, Simple catalog query module, Last Version: v1.3. |
| Author of Softwares | |
| 2019 | Photon , Graphical Interface for publication quality plots, Last Version: v0.3.5. |
| 2019 | SEDOBS, Observed galaxy simulation, Last Version: v0.2.0. |
| 2019 | stpip, pypi statistic web-scraping, 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. |
| 2019 | SPARTAN , <i>Multi-type Galaxy SED-fitting tool</i> , To be released. |
| 2019 | ATACAMA, Lyman Alpha Blob systematic search tool, In Prep |

| | Event Organization |
|--------------|---|
| 2019 | ESO spectroscopic surveys: past, present and future of galaxy evolution, <i>ESO</i> , Santiago, Chile. Member of the Local Organizing Committee. |
| 2019 | 3^{nd} Python Boot Camp , <i>ESO</i> , 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 , <i>ESO</i> , La Serena, Chile. Member of the Local Organising Committee. |
| 2018 | Multiple fellow meetings, ESO, Santiago de Chile. |
| 2018 | 2^{nd} Python Boot Camp , <i>ESO</i> , 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 , <i>European Southern Observatory</i> , Santiago de Chile. |
| 2015 | PyCoffees, main organizer and multiple talks , <i>University of Valparaiso</i> , Valparaiso, Chile. |
| 2013 | Astro-ph talks, Laboratoire d'Astrophysique de Marseille, France. |
| 2011 2013 | Tea time chats, informal science talks for/from PhD students and Postdocs, Laboratoire d'Astrophysique de Marseille, France. |
| | Student Mentoring and Teaching |
| 2019 | Master Internship Co-Supervisor: Francis Tang (ATACAMA project), <i>ESO</i> , 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, <i>University of Valparaiso</i> , 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 , <i>ESO</i> , 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 , <i>ESO</i> , 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 , <i>Doctoral School ED352</i> , Universoty of Aix Marseille, France. |
| | | Extra functional Duties |
| | 2019 | Referee, 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 , <i>Laboratoire d'Astrophysique de Marseille</i> . |
| 2011 2015 | | Elected member of the Science council , <i>Laboratoire d'Astrophysique de Marseille</i> . |
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| | | Languages |
| | | Native |
| | English | Fluent |
| | Spanish | Basic |

References

Olivier Le Fèvre

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Laboratoire
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Laura Pentericci

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