

# Curriculum Vitae: Laia Casamiquela

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Astronome-adjointe  
LIRA, Observatoire de Paris, Section Meudon  
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Personal webpage: <https://laiacasamiquela.github.io/>

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## EDUCATION

*PhD studies Cum Laude* qualification Sep 2013-Jun 2017  
"Chemical and dynamical analysis of Open Clusters in the context of the Milky Way disc" <https://zenodo.org/record/836759#.Ww5amnWFNhE>  
Universitat de Barcelona, Spain

*Master in Astrophysics, Particle Physics and Cosmology* Sep 2012-Jul 2013  
Universitat de Barcelona, Spain

*BSc degree in Physics* Sep 2007-Jul 2012  
Universitat de Barcelona, Spain

## PROFESSIONAL CAREER

*Astronome-Adjointe* Sep 2023 - CURRENT  
Observatoire Paris - LIRA, Paris, France

*Ramón y Cajal fellowship* Jan 2023 - Aug 2023  
ICCUB, Barcelona, Spain

*PSL Postdoctoral fellowship* Dec 2021 - Dec 2022  
Observatoire Paris - GEPI, Paris, France

*CNES Postdoctoral fellowship* Dec 2019 - Nov 2021  
Laboratoire d'Astrophysique de Bordeaux, Pessac, France

*CNRS Postdoctoral contract* Mar 2018 - Nov 2019  
Laboratoire d'Astrophysique de Bordeaux, Pessac, France

*Research assistant* Jun 2017-Feb 2018  
Institut d'Estudis Espacials de Catalunya, Barcelona, Spain

*APIF PhD fellow by the University of Barcelona* Apr 2014-2017

*Collaboration fellowship with the Institute of Cosmos Sciences* Oct 2013-Mar 2014

*Collaboration fellowship with the University of Barcelona* Jan-Jun 2013  
Department of Astronomy and Meteorology, University of Barcelona

*Collaboration grant with the University of Barcelona* Jan-Jun 2013  
Department of Fundamental Physics, University of Barcelona

*Summer undergraduate scholarship: Introduction to the research in astrophysics* Jun-Sep 2009  
Instituto de Astrofísica de Canarias (IAC)

## INTERNATIONAL STAYS

*European Southern Observatory* 6 Nov - 6 Dec 2022  
Santiago de Chile, Chile

*Universidad Diego Portales* 8 Nov - 8 Dec 2019  
Santiago de Chile, Chile

*Leibniz Institute for Astrophysics Potsdam* 1 Oct - 1 Dec 2016

Potsdam, Germany

Ossevatorio Astronomico di Bologna  
Bologna, Italy

15 Apr - 15 Jul 2014

Instituto de Astrofísica de Canarias  
La Laguna, Spain

Feb 2014

## **SUPERVISION OF PHD STUDENTS**

Co-supervision of the PhD student Judit Donada  
UNRAVELING THE CHEMICAL CHARACTERISTICS OF SOLAR TWINS IN OPEN CLSUTERS  
ICCUB. Sept 2023 - Sept 2027

Co-supervision of the PhD student Juan Carbajo  
CHEMICAL EVOLUTION OF THE GALACTIC DISK TRACED BY OPEN CLUSTERS  
ICCUB. Sept 2020 - Jun 2024

Co-supervision of the PhD student Yoann Tarricq  
3D KINEMATICS AND METALLICITY OF STARS IN THE SOLAR NEIGHBOURHOOD  
Laboratoire d'Astrophysique de Bordeaux. Oct 2018 - Dec 2021

## **SUPERVISION OF UNDERGRADUATE STUDENTS**

Supervision of the bachellor student Léah Toledano  
THE PROPERTIES OF OPEN CLUSTERS IN OUR GALAXY  
GEPI-Observatoire de Paris. Oct2023 -Jun 2024

Supervision of the bachellor student Tristan Boin  
DETERMINING AGES OF FIELD STARS WITH GAIA AND LAMOST  
GEPI-Observatoire de Paris. Avril-July 2022

Co-supervision of the Master student Maria Balaguer  
THE OUTSKIRTS OF OPEN CLUSTERS WITH GAIA AND WEAVE  
Universitat de Barcelona. January-June 2021

Supervision of the Master student Tommy Rodrigues  
EXPANDING THE GAIA BENCHMARK STARS CATALOG  
Laboratoire d'Astrophysique de Bordeaux. March-June 2021

Supervision of the Master student Raphael Hazem  
DIFFERENTIAL ABUNDANCE ANALYSIS OF RED GIANT STARS IN OPEN CLUSTERS  
Laboratoire d'Astrophysique de Bordeaux. March-June 2020

Co-supervision of a Master student Nadira Ikhenache  
THE CHEMICAL COMPOSITION OF THE HYADES  
Laboratoire d'Astrophysique de Bordeaux. March-June 2018

## **TEACHING**

Master Space Science and Technology (M1). Observatoire de Paris PSL. 2023-2024

- *Observational techniques and data analysis* mandatory subject. Total: 40 h

Bachellor in Physics. University of Barcelona. 2014-2015, 2015-2016, 2016-2017

- *Astronomy* mandatory subject, 2nd year. Total: 64 h
- *Observational Astronomy* optative subject, 3rd year. Total: 94 h

Bachellor in Physics. University of Barcelona. 2014-2015, 2015-2016, 2016-2017

- *Astronomy* mandatory subject, 2nd year. Total: 64 h
- *Observational Astronomy* optative subject, 3rd year. Total: 94 h

Universitary program *Universitat de la experiència*. University of Barcelona. 2014-2015, 2015-2016, 2016-2017

- *Astronomy and Meteorology*, 18 h mandatory subject, 1st course

Leader of the outreach/teaching project *Windows to the sky: a glance to the universe*, from the program "Youth and Science"<sup>[1]</sup>, 2015, 2016, 2017, 2018, 2019, 2021, 2022, 2023 editions.

- Two weeks (in July of each year) of theoretical teaching and practical lessons in astronomy, oriented to 16-year old students with excellent scientific profile.
- Supervision of research works done by the students during the following 4 months

**RESPONSIBILITIES** *Space missions and instruments:* Gaia (CU6, CU8), WEAVE (Galactic archaeology survey, co-responsible of the assembly of targets), 4MOST (consortium survey Stellar Clusters, co-responsible of the assembly of targets).

Elected member of the "Unit of formation and teaching" council of the Observatory of Paris

France representative of the Time Allocation Committee for the CCI International Time Programme (ITP TAC) of the Canary Islands Observatory

LOC: conference "Star clusters, the Gaia revolution" Oct 2021 Barcelona

**OTHER RESEARCH MERITS** Qualification of "Maître de conférences" (Jan 2020)

A publication chosen as "highlighted publication" in the high-impact journal *Astronomy & Astrophysics* (Castro-Ginard, Jordi, Luri, Álvarez Cid-Fuentes, **Casamiquela** et al. 2020)

Observational experience in the Observatorio del Roque de los Muchachos (ORM) in La Palma: HERMES instrument at the Mercator telescope (1.2 m), FIES instrument at the Nordic Optical Telescope (2.2 m) (high-resolution spectrographs), and the WFC and IDS instruments at the Isaac Newton Telescope (2.5m) (imaging camera and intermediate resolution spectrograph).

PI of 30 accepted observing proposals at the telescopes: VLT (Paranal Observatory), CFHT (Mauna Kea Observatory), TBL (Pic du Midi Observatory), Mercator (ORM), NOT (ORM), INT (ORM), 2.2mCAHA (Calar Alto Observatory).

Knowledge of observational techniques and reduction techniques of both photometric and spectroscopic (low and high-resolution) data.

Referee for A&A, MNRAS, ApJ

Publication of outreach books:

- *Astronomía para todos*  
L. Casamiquela; A. Morral; J.M. Oliver; D. Roig  
Ed. Larousse, ISBN: 978-84-15411-08-6
- *Finestres al cel: teoria, observacions i simulacions per entendre l'Univers*  
L. Casamiquela, V. Moreno, I. Pérez-Ràfols, S. Roca-Fàbrega  
Ed. Fundació Catalunya La Pedrera, ISBN: 978-84-92721-70

**LANGUAGES** Catalan and Spanish (native)  
French (C1, advanced communication)  
English (C1, advanced communication)

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<sup>[1]</sup><https://www.fundaciocatalunya-lapedrera.com/en/youth-and-science>