

# Laia Casamiquela

GEPI, Observatoire de Paris  
5 Place Jules Janssen, 92195 Meudon FRANCE  
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EDUCATION	<i>PhD studies Cum Laude</i> qualification "Chemical and dynamical analysis of Open Clusters in the context of the Milky Way disc" <a href="https://zenodo.org/record/836759#.Ww5amnWFNnE">https://zenodo.org/record/836759#.Ww5amnWFNnE</a> Universitat de Barcelona, Spain	Sep 2013-Jun 2017
	<i>Master in Astrophysics, Particle Physics and Cosmology</i> Universitat de Barcelona, Spain	Sep 2012-Jul 2013
	<i>BSc degree in Physics</i> Universitat de Barcelona, Spain	Sep 2007-Jul 2012
Participation in Schools	International School of Space Science "Space Astrometry for Astrophysics" L'Aquila, Italy	Jun 2019
	Astrobiology introductory course RED'19 Le Teich, France	Mar 2019
	Young Astronomer School on the Scientific Exploitation of the <i>Gaia</i> data Paris, France	Fev 2018
	Big Data with Apache Hadoop and Apache Spark" CULTURELAB, Barcelona, Spain	Sep 2017
	Evry Schatzman School 2015 - Stellar clusters Banyuls sur Mer, France	Oct 2015
	Evry Schatzman School 2013 - The ages of the stars Roscoff, France	Sep 2013
EXPERIENCE	<i>PSL Postdoctoral fellowship</i> GEPI Observatoire Paris, Meudon, France	Dec 2021 - Nov 2023
	<i>CNES Postdoctoral fellowship</i> Laboratoire d'Astrophysique de Bordeaux, Pessac, France	Dec 2019 - Nov 2021
	<i>CNRS Postdoctoral contract</i> Laboratoire d'Astrophysique de Bordeaux, Pessac, France	Mar 2018 - Nov 2019
	<i>Research assistant</i> Institut d'Estudis Espacials de Catalunya, Barcelona, Spain	Jun 2017-Feb 2018
	<i>APIF PhD fellow by the University of Barcelona</i>	Apr 2014-2017
	<i>Collaboration grant with the Institute of Cosmos Sciences</i>	Oct 2013-Mar 2014
	<i>Collaboration grant with the University of Barcelona</i> Department of Astronomy and Meteorology, University of Barcelona	Jan-Jun 2013
	<i>Collaboration grant with the University of Barcelona</i> Department of Fundamental Physics, University of Barcelona	Jan-Jun 2013

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

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

*Osseatorio Astronomico di Bologna*  
GREAT-ITN exchange grant 'OCCASO: Detailed chemical abundances of intermediate and old open clusters in the Northern Hemisphere'  
15 Apr - 15 Jul 2014, Bologna, Italy

*Instituto de Astrofísica de Canarias*  
Training period. Feb 2014, La Laguna, Spain

**TEACHING EXPERIENCE** Supervision of the bachelor student Tristan Boin  
GALACTIC ARCHAEOLOGY THROUGH AGE DETERMINATION USING GAIA AND LAMOST  
GEPI Observatoire de Paris. April-July 2022

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

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

Co-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

Degree 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

Project *Windows to the sky: a glance to the universe*, finaced by the program "Youth and Science"<sup>1</sup>. 2015, 2016, 2017, 2018, 2019, 2021 and 2022 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

**IMPARTED SEMINARS** *Seminar at the University Complutense of Madrid: "Exploring chemical tagging using high precision abundances of open clusters"*

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

20 Oct 2021 Madrid (Spain)

*Seminar at the University of Birmingham: "Abundance-age relations with red clump in open clusters"*

20 Abr 2021 Birmingham (UK)

*Seminar at the University of Atacama: "The chemical evolution of the Milky Way disc through chemical clocks"*

26 Nov 2020 Copiapó (Chile)

*Seminar at the University of Barcelona: "Chemically characterizing nearby evolved Open Clusters"*

14 Feb 2019 Barcelona (Spain)

*Seminar at the Laboratoire of Astrophysics of Bordeaux: "Stellar spectroscopy and abundance analysis, how to use iSpec code"*

31 May 2018 Bordeaux (France)

*Seminar at the Leibniz Institute for Astrophysics Potsdam*

28 Nov 2016 Potsdam (Germany)

*Seminar at the Osservatorio Astronomico di Bologna*

9 Jul 2014 Bologna (Italy)

## COMPUTER SKILLS

*Languages:* LaTeX, Python, FORTRAN77, R, C, IDL, ADQL

*Astronomy general software:* IRAF, TOPCAT, STILTS, iSpec, DAOSPEC

## OTHER RESEARCH MERITS

Qualification of "Lector" by the AQU - Agència de Qualitat pel Sistema Universitari de Catalunya (Jan 2020)

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 several accepted observing proposals at the telescopes: 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.

Experience as referee for A&A and MNRAS

*Outreach book: "Astronomía para todos"; **Casamiquela, L.**; Morral, A., Oliver, J. M.; Roig, D. 2013 Larousse Editorial, ISBN 978-84-15411-08-6*

## LANGUAGES

Catalan and Spanish: native English: C1 (Certificate in Advanced English -CAE- level C) French: C1, advanced communication Italian: A, basic communication

August, 2022