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Research positions

2022 – **Distinguished researcher**
University of Barcelona, Barcelona, Spain
2018 – 2022 **VENI Postdoctoral fellow**
Radboud University, Nijmegen, The Netherlands
Jul. 2021 – Nov. 2022 Maternity leave
Nov. 2018 – Apr. 2019 Maternity leave
2015 – 2018 **Postdoctoral scholar**
California Institute of Technology, Pasadena, CA, USA
2012 – 2015 **Ph.D., student in Astrophysics**
Institute of Astronomy, Cambridge, UK

Industry positions

2009 – 2012 **Scientific Software Test Manager for the Gaia ESA mission**
Faculty of Physics, Barcelona, Spain
2007 – 2009 **Consultant in information technologies**
Synergic Partners, S.L., Barcelona, Spain

Education

2012 – 2015 **Ph.D., Astrophysics**
Institute of Astronomy, Cambridge, UK
Thesis: *Characterizing the Gaia Transient Sky*
Supervisor: Dr. Nicholas A. Walton
2009 – 2011 **M.S., Astrophysics, particle physics and cosmology**
Faculty of Physics, Barcelona, Spain
2008 **M.S. in Information Technologies**
Barcelona School of Informatics, Barcelona, Spain
2003 – 2008 **B.A., Computer Science**
Barcelona School of Informatics, Barcelona, Spain

Prize fellowships and awards

2022 SGR-Cat-2021, Agency for Management of University and Research (co-I, 36.000 €)
2022 **European Research Council (ERC) Starting Grant (PI, 1.489.225 €)**
2021 Maria Zambrano Fellowship (declined)
2018 **Innovational Research Incentives Scheme VENI fellowship (PI, 250.000 €)**
2015 Finnish Centre for Astronomy (FINCA) fellowship (declined)
2015 European Science Foundation grants for exchange visits (6.000€)
2012 **Marie Curie Early Stage Researcher fellowship (PI, 150.000 €)**
Gaia Research for European Astronomy Training – Initial Training Network (GREAT ITN)
2001 National Chemistry Olympiad, Gijón, Spain - silver tier

Selected talks - conferences and workshops

July 2023 **Invited Talk:** European Week of Astronomy and Space Science, Krakow, Poland
Nov 2022 **Invited Talk:** Supervirtual, online
Oct 2022 Poster: LSST@EU4, Rome, Italy
Jul 2022 Talk: Gap transients workshop, Sexten, Italy
Jun 2022 **Invited Talk:** Physics and Astrophysics of Common Envelope Workshop, Los Alamos, USA
Jul 2021 Talk: EAS virtual meeting, Leiden, Netherlands
May 2021 Talk: NAC (Nederlandse Astronomenconferentie) virtual meeting, Leiden, Netherlands
Jul. 2020 Talk: EAS virtual meeting, Leiden, Netherlands

Oct. 2019	Invited talk: Royal Astronomical Society, London, UK
Sep. 2019	Talk: ESO workshop "The extragalactic explosive Universe", Garching, Germany
Jun 2019	Talk: European Week of Astronomy and Space Science, Lyon, France
May 2019	Talk: NAC (Nederlandse Astronomenconferentie), Groningen, The Netherlands
Feb. 2019	Invited Talk: Cosmic Beacons workshop, Sexten, Italy
Sep. 2018	Invited Talk: Caltech-Swinburne data science workshop, Pasadena, USA
Sep. 2018	Talk: Keck Science Meeting, Pasadena, USA
Jul. 2017	Invited talk: Unveiling the Physics Behind Extreme AGN Variability, ST. Thomas, US. Virgin Islands
July 2017	Talk: European Week of Astronomy and Space Science, Prague, Czech Republic
Jan. 2017	Talk: 229 th American Astronomical Society meeting, Grapevine, USA
Nov. 2015	Talk: Jerusalem TDE Workshop
Nov. 2015	Talk: Gaia Science Alerts Workshop, Liverpool, UK
Sep. 2014	Talk: Gaia Science Alerts Workshop, Warsaw, Poland
Aug. 2014	Talk: CAASTRO Annual Scientific Conference, Coffs Harbour, Australia
Jul. 2014	Talk: European Week of Astronomy and Space Science, Geneva, Switzerland
Feb. 2014	Talk: Gaia-PESSTO GREAT ESF Workshop, Belfast, UK
Sep. 2013	Invited talk: Workshop on High Energy Tidal Disruption Events, Favignana, Italy
Jul. 2012	Talk: European Week of Astronomy and Space Science, Rome, Italy

Selected colloquium and seminars

Jun 2023	Invited seminar. ICE-CSIC, Cerdanyola del Vallès, Spain
May 2023	Invited colloquium. Astronomical Observatory of the University of Warsaw, Warsaw, Poland
Apr 2023	Invited seminar. Liverpool John Moores University, Liverpool, United Kingdom
Jan 2023	Invited seminar. Winter meeting ICCUB. University of Barcelona, Barcelona, Spain
Dec 2022	Seminar: University of Barcelona, Barcelona, Spain
Jan 2022	Seminar: Radboud University, Nijmegen, The Netherlands (online)
Feb 2021	Invited seminar: Center for Computational Astrophysics, Flatiron Institute, New York, USA (online)
Feb 2021	Seminar: Radboud University, Nijmegen, The Netherlands (online)
Nov 2020	Invited colloquium: Nicolaus Copernicus Astronomical Center, Toruń, Poland (online)
May 2020	Invited colloquium: Astronomical Institute Anton Pannekoek, Amsterdam, NL (online)
Nov 2019	Invited seminar: Florida State University, USA (online)
Oct. 2019	Invited colloquium: Charles University, Prague, CZ
Oct 2019	Invited seminar: Ondrejov Observatory, Ondrejov, CZ
Oct 2019	Invited colloquium: UCL, London, UK
Jul 2019	Invited colloquium: University of Novo Gorica, Novo Gorica, Slovenia
May 2018	Seminar: SRON, Utrecht, The Netherlands
Jan. 2018	Invited Colloquium: Radboud University, Nijmegen, The Netherlands
Jan. 2018	Seminar: Technion – Israel Institute of Technology, Haifa, Israel
Jul. 2017	Seminar: Faculty of Physics, University of Barcelona, Spain
Jun. 2017	Seminar: Liverpool John Moores University, Liverpool, UK
Jun. 2017	Seminar: Caltech, Pasadena, USA
Feb. 2017	Invited seminar: University of Washington, Seattle, USA
Nov. 2016	Invited seminar: San Diego State University, San Diego, USA
Jun. 2016	Seminar: Faculty of Physics, University of Barcelona, Spain
Apr. 2016	Seminar: Institute of Astronomy, Cambridge, UK
Feb. 2015	Seminar: Institute of Astronomy, Cambridge, UK
Jan. 2015	Seminar: Tuorla Observatory, University of Turku, Finland
Nov. 2014	Invited colloquium: University of Warwick, Coventry, UK
May 2014	Seminar: Astronomical Observatory, University of Warsaw, Warsaw, Poland
Aug. 2012	Seminar: Faculty of Physics, University of Barcelona, Barcelona, Spain

Press releases

Sep. 2016	"New observations of rare cosmic explosion provide hints about stars' companionship", for Blagorodnova et. al. 2017, GROWTH press
Sep. 2014	"Gaia discovers its first supernova", European Space Agency news

Awarded observing time

2023	JWST – 10.14h (co-I), Calar Alto 3.5, 2.2m – 6h, 16.5h (PI)
2022	GTC – 10 hours (co-I)
2021	SOFIA – 1.3 hours (co-I), VLT – 2 hours (PI), LT – 17.5 hours (co-I)
2020	GTC – 16.5 hours (co-I), VLT – 12 hours (co-I), LT – 17.5 hours (co-I)
2019	Keck – ½ night (PI)
2018	LCO – 42 hours (PI), Keck – 3 nights (PI)
2017	HST GO Cycle 25 – 70 orbits (co-I), Keck – 1.25 nights (PI) + 1 night (co-I)
2016	HST DDT Cycle 23 – 5 orbits (co-I), Keck – 1 night (PI) + 0.5 nights (co-I), P200 – 3 nights (PI), P60 – 35 h (PI), P48 – 24 h (PI), VLT – 5h (co-I)
2014	Liverpool Telescope – 92 h (co-I)

Observing experience

Keck I and Keck 2	26 nights. Instruments: LRIS, DEIMOS, NIRC2, NIRSPEC, ESI, OSIRIS
P200	10 nights. Instruments: DBSP, WIRC
WHT	3 nights. Instruments: ACAM
NTT	16 nights. Instruments: EFOSC2, SOFI
NOT	3 nights. Scheduling of Target of Opportunity observations
Copernico Telescope (1.8m)	5 nights. Instruments EFOSC2
VLT	2 hours. Instruments: XShooter

Supervision, teaching and mentoring of students

Feb 2022 – present	Supervising a “Treball Final de Grau”, University of Barcelona
Oct 2022 – present	Lecturer in “Observational Astronomy” course, University of Barcelona
Nov 2022 – present	Supervision of a Ph.D. thesis, University of Barcelona
Nov 2022 – present	Mentoring of a postdoctoral researcher
Feb. 2021 – Feb. 2022	Supervision of a master’s thesis, Radboud University Result: Peer-reviewed publication in Q1 journal. The student is currently pursuing his Ph.D.
Nov 2018 – Jul. 2020	Mentoring of an undergraduate student from Yale-NUS College in Singapore Result: Peer-reviewed publication in Q1 journal.
May 2019	Lecturer for Astronomy Olympiad course, Radboud University
Jun 2018	Main organizer and lecturer of the ZTF Undergraduate Summer School, Caltech
Jun 2018 – Sep 2018	Supervision of an undergraduate research project within the SURF project at Caltech
2017 – 2018	President and dance instructor – Caltech Salsa Club, Caltech
Jul 2017 – Sep. 2017	Supervision of an undergraduate research project within the GROWTH programme, Caltech
Oct 2016 – Sep 2018	Mentoring a graduate student in a junior technical position, Caltech
2016, 2017	Teaching of Astronomy 101 (part), Caltech
2016	Teaching assistant for the iPTF summer school, Caltech
2013	Supervision of 10 students “Stellar structure and Evolution” course, University of Cambridge
2012	Co-supervision of a master’s thesis, University of Barcelona

Complementary education

2021	<i>Scientific writing, Efficient writing strategies, Writing a scientific review, and Grant writing and presenting courses</i> , Radboud University, The Netherlands.
2018	<i>Storytelling for scientists</i> , Caltech, USA
2017	35th Jerusalem Winter School in Theoretical Physics, Jerusalem, Israel
2013	GREAT Astrostatistics School 2013, Alicante, Spain
2012	GREAT-ITN on Fundamental Cosmic Distance Ladder and Transient Sky, Teramo, Italy

Reviewing activities

2015 – present	Referee for the journals: Monthly Notices of the Royal Astronomical Society, Astrophysical Journal, Publications of the Astronomical Society of the Pacific, and Astronomy and Astrophysics
2022	Member of the European Southern Observatory time allocation committee
2021	Junior committee member of the Royal NL Astronomical Society, The Netherlands
2019 – 2021	Ph.D. evaluation board panel, Radboud University, The Netherlands
2018	External expert reviewer for telescope time allocation committee, Optical Infrared Coordination Network for Astronomy (OPTICON), Horizon 2020

Membership of large and medium-size collaborations

2022 – present	PI-level partner of the BlackGEM/MeerLICHT consortium. Leader of the “Stellar Mergers” science group
2022 – present	Full member of the Sociedad Española de Astronomía (SEA)
2022 – present	Member of the Virgo / gravitational wave research group at University of Barcelona
2021 – present	Member of the Vera C. Rubin Observatory Legacy Survey of Space and Time (LSST) Transients and Variable (TVS) Stars Collaboration
2019 – present	Member of the ENGRAVE collaboration for gravitational wave follow-up
2019 – present	IAU junior member
2018 – present	Member of the Science Team for the MeerLICHT/BlackGEM collaboration.
2016 – 2018	Global Relay of Observatories Watching Transients Happen (GROWTH)
2016 – 2017	Board member of the Postdoc Association Committee, Caltech, USA
2015 – present	Intermediate Palomar Transient Factory (iPTF) and Zwicky Transient Facility collaboration (ZTF)
2012 – 2015	Public Spectroscopic Survey for Transient Objects (PESSTO)
2009 – 2016	Data Processing and Analysis Consortium (DPAC) for Gaia ESA mission

Organization of conferences, workshops, and seminars

Aug 2022	SOC – IAU general assembly symposium. “Machine learning in astronomy: possibilities and pitfalls”, Busan, South Korea
May 2022	SOC – Workshop on “Common Envelope challenges and future directions”, Los Alamos, USA
Jul. 2020	SOC – EAS Symposium “Common-envelope systems: progenitors, mergers and survivors”
2019 – 2020	Radboud University Astrophysics colloquium organizer
Jun. 2019	SOC – EAS Symposia on tidal disruption events and ZTF, Lyon, France
Jun. 2018	SOC/LOC – “ZTF Undergraduate Institute”, Caltech, Pasadena, USA
Sep. 2017	SOC/LOC – “The Dynamic IR sky”, workshop, Caltech, Pasadena, USA
May 2017	LOC - Pasadena Astronomy Postdoc Retreat, Lake Arrowhead, USA
2016 – 2017	Organizer - Caltech seminar series organizer (Tea Talks), Caltech, USA
Jul. 2016	LOC - GROWTH annual meeting, Pasadena, USA
Sep. 2015	LOC- Sharp Eyes on European Skies, Cambridge, USA
Sep. 2014	SOC- 5 th Gaia Science Alerts Workshop, Warsaw, Poland
Jun. 2013	SOC - GREAT Astrostatistics School 2013, Alicante, Spain

Outreach activities

2022	Contribution to “Mothers in Astronomy” book (e-publication)
2021	Speaker for Astronomy on tap, Leiden, NL
2020	Greenway lecture, Palomar Observatory, USA
2018 – 2021	Regular outreach activities at Radboud University, Nijmegen, NL
2017	Speaker for Astronomy on tap, Pasadena, USA
2012 – 2015	Support to local outreach events, Institute of Astronomy, Cambridge, UK
2014	Gaia Outreach event, Barcelona, Spain
2014	Gaia LIVE outreach talk in an elementary school, Cambridge, UK
2014	Open day in the Institute of Astronomy – Gaia outreach
2013	Stargazing live event at the Institute of Astronomy, Cambridge, UK

Software

nirc2red	Photometric data reduction pipeline for the NIRC2 instrument on Keck (author).
rcred	Photometric data reduction pipeline for the Rainbow Camera instrument, part of the SEDM (Spectral Energy Distribution Machine), operating on the 60-inch telescope at Palomar (author).
GaiaPython	Software module to filter and visualize the environment of Gaia transient events (author).
GSTEC	Gaia Spectrophotometry Transient Event Classifier – Software for classification of transient and variable objects using Gaia low-resolution spectroscopy (author).
IDT	Initial Data Treatment. Software for the testing science requirements of the initial data reduction module for Gaia data (contributor).
BBFit	Python MCMC for fitting of different models of emission (black-body, power-law, disk...) to photometric data.

Languages

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|---------------------------|------------------------|
| Catalan, Spanish, Russian | – Native speaker |
| English | – Advanced proficiency |
| Italian | – Fluent |
| French, Dutch | – Basic |