

Marta Reina-Campos

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Educational background

2011 - 2015: B.Sc., Physics with a minor in Fundamental Physics, Universitat de Barcelona (Spain)
2015 - 2016: M.Sc., Astrophysics, Particle Physics and Cosmology, Universitat de Barcelona (Spain)
2016 - 2020: Dr.Rer.Nat., Astronomy, Title: *“Formation and evolution of globular clusters in a cosmological context”*, Advisor: Dr. J. M. Diederik Kruijssen, Astronomisches Rechen-Institut - Zentrum für Astronomie (ARI - ZAH), Universität Heidelberg (Germany)

Employment History

2021 - present: CITA Canada Fellow at McMaster University, McMaster University, Hamilton, Canada
2016 - 2020: IMPRS fellowship from the International Max Planck Research School - Heidelberg (IMPRS - HD) - PhD student, Universität Heidelberg (Germany)
2015-2016: Teaching assistant at the Universitat de Barcelona (Spain)
2015: Summer Research Scholarship, Instituto de Astrofísica de Canarias, Tenerife (Spain)
2014-2015: Research assistant, Gaia team in Barcelona (IEEC-ICCUB), Department of Astronomy and Meteorology, Universitat de Barcelona (Spain)

Fellowships, awards and distinctions

2021-2025: Canadian Institute for Theoretical Astrophysics (CITA) Canada Postdoctoral Fellowship
2021: Nominee for Wilhelm und Else Heraeus-Dissertationspreis für Physik and Astronomie
2021: Special mention in the best PhD thesis award from the Spanish Astronomical Society
2021: Wilma-Moser-Prize 2020 from the Wilma Moser Foundation
2017: Ernst Patzer Prize 2017 - Patzer Foundation, Heidelberg (Germany)
2016: International Max Planck Research School - Heidelberg (IMPRS-HD) Fellowship to pursue the PhD in Heidelberg, Heidelberg (Germany)

Research interests:

- Formation of clustered stellar systems over cosmic time, and their interplay with galaxy formation.
- Constraining the physics involved in globular cluster formation.
- Development of sub-grid models of star formation and feedback in numerical simulations of galaxy formation.

Publication overview: First author in 9 refereed publications, 1 manuscript under review and 2 conference proceedings. Lead and co-lead author in 2 refereed publications that are the result of student supervision. Contributing author in 23 refereed publications, in which 8 of them as second or third author.

Professional responsibilities:

2019 - present: Referee for MNRAS, ApJ and A&A
2023: Proposal reviewer for the STFC DiRAC High Performance Computing facilities
2022, 2024: Co-organiser of the series of “Small Clusters Meetings” at McMaster University and University of Toronto

Talks, seminars and colloquia — from July 2016 - present: 2 invited reviews, 24 invited seminars and colloquia, and 22 conference talks (only selected invited contributions are listed):

April 2024: Colloquium, Carnegie Observatories, United States
March 2024: Colloquium, University of British Columbia, Vancouver, Canada
November 2023: Colloquium, University of Michigan, United States
March 2023: Colloquium, University of Waterloo, Kitchener, Canada
December 2021: Colloquium, Princeton University, United States (online)
October 2021: Colloquium, Ohio State University, United States (online)
July 2021: Colloquium, Institute for Research in Fundamental Sciences, Tehran, Iran (online)
June 2021: Review, SS 10 at the European Astronomical Society Meeting 2021, Leiden (online)
April 2021: Colloquium, Stockholm University, Sweden (online)
Dec 2020: Colloquium, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brasil (online)

Student supervision and mentoring: two undergraduate research thesis and two undergraduate summer research projects at McMaster University, and one undergraduate research thesis at the University of Toronto.

Teaching

2017-2019: Teaching assistant at Heidelberg University, course: *“Python Programming for Scientists”*
2015-2016: Teaching assistant at Universitat de Barcelona, course: *“Algebra”*

Outreach:

2023: Blog post on our JWST results in Abell 2744: <https://www.cita.utoronto.ca/mcmaster-cita-astronomers-use-james-webb-space-telescope-probe-cosmic-history/>
2019- 2023: “Chatea con una astrónoma”, organised by the Spanish Astronomical Society
2017: TEDx UniHeidelberg - “Illuminating absurdity”, Talk: “Astrophysics or the interplay of scales”