

CAMILA NAVARRETE

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PROFESSIONAL EXPERIENCE

- Centre National d'Études Spatiales** *October 2023 – present*
CNRS Fellow at the Observatoire de la Côte d'Azur.
- Observatoire de la Côte d'Azur** *July 2022 – April 2023*
Visiting astronomer (4th year of the ESO Fellowship).
- European Southern Observatory Chile** *May 2019 – April 2023*
ESO Fellow with duties in Paranal Observatory. UVES Instrument Fellow.

EDUCATION

- Pontificia Universidad Católica de Chile** *August 2014 - December 2018*
Ph.D. degree in Astrophysics, advisors: M. Catelan and V. Belokurov
- Institute of Astronomy, University of Cambridge** *Sept 2016 - February 2017*
Ph.D. visiting student, co-advisor: Prof. V. Belokurov *Sept 2015 - March 2016*
- Pontificia Universidad Católica de Chile** *August 2011 - August 2014*
Master degree in Astrophysics, Advisor: Prof. M. Catelan *Summa Cum Laude*
- Pontificia Universidad Católica de Chile** *March 2007 - August 2011*
Undergraduate degree in Astronomy, Advisor: Prof. M. Catelan *Summa Cum Laude*

FELLOWSHIPS, GRANTS AND AWARDS

- January 2020 PhD thesis Excellence Award in P. Universidad Católica de Chile.
December 2018 100 Young Chilean Leaders 2018 (by El Mercurio newspaper).
August 2018 PUC Young Student Leader 2017 (Yearly recognition given to 25 students).
October 2017 L'Oréal-UNESCO For Women in Science Chile Fellowship (11000.0 USD).
August 2015 Chilean Astronomical Society grant to attend XXIX IAU General Assembly.
August 2015 IAU Grant to attend XXIX IAU General Assembly (1100.0 USD).
March 2015 CONICYT National Doctoral Studentship.
March 2012 CONICYT National Master Fellowship.

PUBLICATIONS (SELECTED)

- To date (May 2024): 28 refereed publications (7 as the first author). Full list of publications here.
- 2024.** Gaia Collaboration et al. including **Navarrete, C.**, A&A, in press:
Discovery of a dormant 33 solar-mass black hole in pre-release Gaia astrometry.
- 2024.** González-Rivera de La Vernhe, I., et al. including **Navarrete, C.**, A&A, 683, 167:
The Pristine survey XXV: The Galactic underdogs Dynamic tales of a Milky Way metal-poor population.
- 2024.** Gran, F., et al. including **Navarrete, C.**, A&A, 683, 167:
The treasure behind the haystack: MUSE analysis of five recently discovered globular clusters.
- 2023.** Martin, N., et al. including **Navarrete, C.** et al., A&A in press:

The Pristine survey – XXIII. Data Release 1 and an all-sky metallicity catalogue based on Gaia DR3 BP/RP spectro-photometry.

2023. Navarrete, C. et al., MNRAS 523, 4720:

The 3D kinematics of stellar substructures in the periphery of the Large Magellanic Cloud.

2022. Kundu, R., Navarrete, C. et al., A&A 665, 8:

Extra-tidal star candidates in globular clusters of the Sagittarius dwarf spheroidal galaxy.

2022. Gran, F. et al., including Navarrete, C., MNRAS, **509**, 4962:

Hidden in the haystack: low-luminosity globular clusters towards the Milky Way bulge

2021. Aguado, D. S. et al., including Navarrete, C., ApJL, **908**, 1:

Elevated r-process Enrichment in Gaia Sausage and Sequoia

2021. Aguado, S. et al., including Navarrete, C., MNRAS, **500**, 889:

The S2 Stream: the shreds of a primitive dwarf galaxy

2021. Kundu, R., Navarrete, C. et al., A&A, **645**, 116:

The search for extratidal star candidates around Galactic globular clusters NGC 2808, NGC 6266, and NGC 6397 with Gaia DR2 astrometry

2020. Piatti, A. et al., including Navarrete, C., A&A, **643**, 15:

The elusive tidal tails of the Milky Way globular cluster NGC 7099

2019. Navarrete, C., Belokurov, V., Catelan, M. et al., MNRAS, **483**, 4160:

Stellar streams around the Magellanic Clouds in 4D

2019. Belokurov, V. et al., including Navarrete, C., MNRAS, **488**, 47:

The Pisces Plume and the Magellanic Wake

2018. Jethwa, P., Torrealba, G., Navarrete, C. et al., MNRAS, **480**, 5342:

Discovery of a thin stellar stream in the SLAMS survey

2018. Carballo-Bello, J. A. et al., including Navarrete, C., MNRAS, **474**, 4766:

The globular cluster NGC 7492 and the Sagittarius tidal stream: together but unmixed

2017. Navarrete, C., Catelan, M., Contreras-Ramos, R. et al., A&A, **604**, 120:

Near-IR Period-Luminosity Relations for pulsating stars in ω Centauri

2017. Navarrete, C., Belokurov, V., & Koposov, S. E., ApJ, **841**, L2:

The Discovery of Tidal Tails around the Globular Cluster NGC 7492 with Pan-STARRS1

2017. Navarrete, C., Belokurov, V., Koposov, S. E. et al., MNRAS, **467**, 1329:

A fork in the Sagittarius trailing debris

2016. Gran, F. et al., including Navarrete, C., A&A, **591**, 145

Mapping the outer bulge with RRab stars from the VVV survey

2015. Navarrete, C., Chanamé, J., Ramírez, I. et al., ApJ, **808**, 103:

The Kapteyn moving group is not tidal debris from ω Centauri

2015. Navarrete, C., Contreras-Ramos, R., Catelan, M. et al., A&A, **577**, 99:

Updated census of RR Lyrae stars in the globular cluster ω Centauri.

CONFERENCES AND WORKSHOPS (SELECTED)

2024 Contributed talk - Semaine de l'Astrophysique française, Marseille, 4th June: Physical properties of red giant binaries in Gaia DR3.

2024 Contributed talk - SDSS -V Milky Clouds over Manhattan, New York, ... Feb): Tracing the Magellanic periphery using Mira variables.

2023 Thirty-minute talk - ESO Chile, xx August?, Tracing the Magellanic periphery using Mira variables (TBupdated)

2022 Informal discussion - ESO Garching, 28th September, Tracing the Magellanic periphery using Mira

variables.

2021 Contributed talk - IV Millennium Institute of Astrophysics (MAS) Workshop, via Zoom, 15th January: RR Lyrae stars as tracers of stellar substructure in the Southern Galactic halo.

Talk: Revealing Magellanic stars in the Milky Way halo.

2020 Invited. SOCHIAS Annual Meeting, 10 Dec (via zoom)

2020 INCT Universidad de Atacama Seminar, July 25 (via zoom)

2019 Contributed talk. ESO Thirty Minutes Talk, Santiago, Chile, October 1

Talk: Stellar streams around the Magellanic Clouds in 4D

2020 EAS 2020 meeting, S7 The Magellanic Clouds in the 2020s, July 1st (via zoom)

2019 A Synoptic View of the Magellanic Clouds, Garching, Germany, September 7-13

2018 The life and times of the Milky Way, Shanghai, China, November 12

2018 UDP Seminars, Núcleo de Astronomía, U. Diego Portales, Santiago, Chile, May 11

2017 Wednesday Seminars, Institute of Astronomy, University of Cambridge, Feb. 15

Talk: Near-IR catalogue of variable stars in omega Centauri

2020 Star Clusters 2020, Gemini Observatory, La Serena, Chile, March 10

Talk: A fork in the Sagittarius trailing debris

2016 Thirty-minutes Talk, ESO Chile, December 15

Talk: RR Lyrae stars in ω Cen: Near-IR properties and Period-Luminosity relations

2015 High-precision studies of RR Lyrae stars, Visegrád, Hungary, October 19

OBSERVING EXPERIENCE

200+ nights/days of duties as support astronomer at Paranal Observatory (2019 - 2022).

35+ observing nights with 4m, 6.5 and 8m-class telescopes in Chile (2011 - 2019).

SERVICE

LOC member of the Gaia DPAC Consotium Meeting in Nice, France (March 2024)

External reviewer of a postdoctoral funding project for the National Science Centre, Poland (June, 2023)

Panelist in the Work-Life Balance Round-Table Discussion at the Joint Observatories Kavli Science Forum, ESO Chile (April 2022)

Chair and organizer of SOCHIAS XVII Annual Meeting Special Session: Observatories in Chile (January 2022)

LOC member of the SOCHIAS XVIII Annual Meeting (January 2022)

Organiser of the ESO Chile astronomy lecture series (2020, 2021, 2022)

ESO Chile internship student selection committee (2019, 2020)

Reviewer for The Astrophysical Journal (October 2020 – present)

Reviewer for Astronomy & Astrophysics journal (February 2020 – present)

Reviewer for Nature and Nature Astronomy journals (October 2018 – present)

SUPERVISED STUDENTS

Nicolás Cristi - Master student at PUC (May - June 2024)

Manuel Cavieres - Master student at PUC (September 2022)

Richa Kundu - PhD student at ESO - Chile (March 2020 - February 2021)

Carolina Cenzano - Intern Ph.D. student at ESO Chile (July to Dec 2020)

TEACHING AND SUPERVISION EXPERIENCE

Tutor in La Silla Observing School, February 2020
General Astrophysics 1-2011, 1-2014, 1-2017, Teaching assistant at PUC, Chile
Astronomy 1-2011, 1-2012, 1-2013, Teaching assistant at PUC, Chile
Advanced Stellar Astrophysics 2-2014, Teaching grader at PUC, Chile
Thermodynamics 2-2011
Electricity and Magnetism 2-2009 (grader), 2-2011
General Physics II 2-2010
Physics for Sciences 2-2009, 1-2010, 1-2013 (grader)

OUTREACH

Women in Science events and news

Nosotras 13 – Canal 13, August 2021, URL
Interview – Diario Financiero, July 2021 URL
Interview – Cazadoras de Estrellas initiative (U. de Chile), November 2020
Interview – Revista Ya "La nueva generación de astrónomas chilenas", November 2020
Speaker in Girls in ITU day, ONU Mujeres & ESO Chile, via zoom, April 2020
Interview – Revista Qué Pasa "La joven astrofísica que es la única investigadora postdoctoral chilena en ESO Chile", February 2020
Speaker in ALMAS con Ciencia, International Women's Day, ALMA headquarters, March, 2020

Online streaming events

Invited guess (with R. Castillo), Paranal online tour, part of SOCHIAS Annual Meeting outreach activities, December 2020
Interview – Instagram live – Millennium Institute of Astrophysics (MAS), July 2020
Invited guess, Paranal Observatory, online tour, July 2020

Educative videos

Explora Antofagasta: Total solar eclipse, November 2020
Galactic Archaeology: Unveiling the fossils of the Milky Way (public talk, in Spanish)
Corporación de Turismo Vicuña, via Zoom, January 2021
Colegio Dunalastair, Colina, via Google Meet, October 2020
Colegio Dunalastair, Las Condes, via Google Meet, September 2020
Astronomía en Casa, Proyecto Anillo Agujeros Negros Supermasivos, via Youtube, July 2020
Programa 100c100aulas, Programa Explora Conicyt Arica, via Youtube, June 2020
Universidad Autónoma, Campus El Llano, Santiago, Chile, September 2019
Noches de Charla y Telescopios, Universidad Diego Portales, Santiago, Chile, May 2019
Astronomy Day, Programa Explora Conicyt, Arica, Chile, March 2019
Olimpiadas Nacionales de Astronomía y Aeronáutica, Museo Interactivo Mirador, Santiago, Chile, August 2018
Liceo 1 - Javiera Carrera, Santiago, Chile, November 2017
Casa de la Cultura de Pedro Aguirre Cerda, Santiago, Chile, May 2017
What does an astronomer do? (talk for high-school students, in Spanish)
Taller de Astronomía (Kopernicus School, Frutillar), via zoom, November 2020
Colegio Dunalastair de Las Condes, Santiago, Chile, August 2019
Colegio San Benito, Santiago, Chile, May 2019
Colegio Madre Ana Eugenia, Santiago, Chile, October 2018
Instituto Alonso de Ercilla, Santiago, Chile, June 2018
What is a solar eclipse? (talk for primary-school students, in Spanish)
Colegio Hispano Americano, Santiago, Chile, July 2019

More than 20 press interviews and notes in National Media (newspaper, magazines, radio, websites), since October 2017, about Astronomy and Women in STEM careers.

MENTORING

Since 2021, I have been trained as a mentor for women in STEM, under two different programmes. Since then, I have been giving mentoring (for around a year, each time) to high-school and first-year university female students interested in STEM fields. The mentoring sessions include vocation, expectations, mental health, impostor syndrome and women in science.

Former mentor in the LIQCAU programme (April - Dec 2021)

Mentor training in the PROVOCA programme (May-Dec 2021)

Mentor in the PROVOCA mentorship programme (2022 – present).