

Felipe Eduardo Gran Merino

MWDisc/Pristine Postdoc at the Observatoire de la Côte d'Azur, Nice, France (2022-present)
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PERSONAL DETAILS

Birthday: July 20, 1989
Citizenship: Chilean
Webpage: fgran.github.io
ORCID: orcid.org/0000-0002-9252-6899
Family status: single, 1 child born September 4, 2012

EDUCATION

Ph.D. in Astrophysics: March 2016 - March 2022
Pontificia Universidad Católica de Chile
Ph.D. candidate: approved May 2018
ESO Chile Studentship programme: September 2019 - August 2021
Millennium Institute of Astrophysics (MAS) graduate alumnus
“Distinción Máxima” (summa cum laude)
“Premio de excelencia en tesis doctoral” (March 2023)
Selected as the best 2022 thesis in the university within the
Mathematics, Physics, Chemistry and Astrophysics departments

B.Sc. and M.Sc. in Astrophysics: March 2008 - August 2015
Pontificia Universidad Católica de Chile
Both grades: “Distinción Máxima” (summa cum laude)

EXPERIENCE

Thesis co-guide: January 2023 - June 2024
Three Université Côte d'Azur bachelor students co-guided with Georges Kordopatis

4MOST S13 Stellar clusters catalogue responsible: March 2023 - Present
S13 leader: Sara Lucatello (INAF, Italy)

Ph.D. Thesis: March 2017 - March 2022
Unleashing the proper motions: revolution in the inner Galaxy.
Advisors: Manuela Zoccali (PUC, Chile) and Ivo Saviane (ESO Chile)

Internship: January 2019 - March 2019
European Southern Observatory (ESO), Garching bei Munich, Germany.
Advisor: Elena Valenti (ESO, Germany)

Assistantships: Since March 2012
Multiple assistantships since 2012: Astronomy 101, Stellar and Experimental Astrophysics, Data Analysis, and Scientific Assistant at PUC Observatory..

ACADEMIC GRANTS

August 2023

“Premio Andino destacado 2023: categoría profesional”:

Selected by Los Andes City Council as outstanding person in the professional category

“Premio de excelencia en tesis doctoral”

March 2023

Selected as the best 2022 thesis within the university within the Mathematics, Physics, Chemistry and Astrophysics departments

“CONICYT: Beca de asistencia a eventos”:

October 2018 - December 2018
Selected for a grant to attend two conferences in 2018

March 2014 - July 2015 and March 2017 - December 2019

“CONICYT: Concurso Becas de Magíster y Doctorado en Chile”:

Selected for a grant to continue M.Sc. and Ph.D. studies

SKILLS

Languages:

Spanish (native language)
English (IELTS certification B2/6.5 overall, 2018)
French (Basic skills - A2 level)

Programming Language:

Python (advanced level, total experience: 9 years)
ADQL, HTML, C# for Unity (intermediate level)

Frequently Used Software:

TOPCAT, STILTS, LaTeX

Community service:

MNRAS and Gemini Canadian TAC referee
Graduate student representative (2017-2019)

Outreach activities:

MAS sticker album: scientific development (MAS, 2022),
Science Party, Solar Eclipse and Live Interview (MAS and GMTO, 2019-2020)

CONFERENCES – Metal Production and Distribution in a Hierarchical Universe – II:

AND SELECTED Oral and poster presentations.

WORKSHOPS

- Invited speaker: IX Escuela Ecuatoriana de Astronomía y Astrofísica 2023
- PRISTINE Science Team Meeting 2023: Two oral presentations.
- Star Clusters: the Gaia Revolution: Online presentation.
- Virtual EAS 2021 Annual Meeting: Online poster.
- Gaia EDR3 Early Science and Best Practices: Online workshop.
- Two Thirty Minute Talks at ESO Chile: Oral and Online presentations.
- SOCHIAS XVI Annual Meeting 2020: Online presentation.
- Nice WG4 Workshop: A Dynamical View of the Sky: Oral presentation.
- Galactic Bulge at the Crossroads: Oral presentation.

APPROVED OBSERVING PROGRAMS

UVES at Paranal Observatory

PI: V. Hill, P111 and P112 - 70h in service mode

PI: I. González Rivera, P113 - 13h in service mode

FEROS at La Silla Observatory

PI: F. Gran, P105 - 3 nights, observing experience: 10 days.

MUSE at Paranal Observatory

PI: F. Gran, P103 and P105, 14 hours in service mode

PUBLICATIONS – First author:

The treasure behind the haystack:

MUSE analysis of five recently discovered globular clusters

Gran, F. et al. 2024, A&A, 683, 167 (arXiv:2310.09868)

Hidden in the Haystack:

Low-luminosity globular clusters towards the Milky Way bulge

Gran, F. et al. 2022, MNRAS, 509, 4962 (arXiv:2108.11922)

APOGEE view of the globular cluster NGC 6544

Gran, F. et al. 2021, MNRAS, 504, 3494 (arXiv:2104.05865)

Globular cluster candidates in the Galactic bulge:

Gaia and VVV view of the latest discoveries

Gran, F. et al. 2019, A&A, 628, 45, 30 (arXiv:1904.10872)

Mapping the outer bulge with RRab stars from the VVV Survey

Gran, F. et al. 2016, A&A, 591, 145 (arXiv:1604.01336)

Bulge RR Lyrae stars in the VVV tile b201

Gran, F. et al. 2015, A&A, 575, 114 (arXiv:1501.00947)

Complete list of publications: link to [ADS](#)¹, h-index: 17.

Publications as a first author: 6, as a co-author: 37.

– Latest co-author publications:

The Pristine survey – XXVI. The very metal-poor Galaxy: Chemodynamics through the follow-up of the Pristine-Gaia synthetic catalogue

Viswanathan, A. (**incl. Gran, F.**) 2024 (arXiv:2405.13124)

Pristine Inner Galaxy Survey (PIGS) IX. The largest detailed chemical analysis of very metal-poor stars in the Sagittarius dwarf galaxy

Sestito, F. (**incl. Gran, F.**) 2024 (arXiv:2405.00096)

SpectroTranslator: a deep-neural network algorithm to homogenize spectroscopic parameters

Thomas, G. (**incl. Gran, F.**) 2024 (arXiv:2404.02578)

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

Martin, N. (**incl. Gran, F.**) 2023 (arXiv:2308.01344)

Stellar Clusters in 4MOST

Lucatello, S. (**incl. Gran, F.**) 2023, The Messenger, 190, 13 (The Messenger)

Spectroscopic analysis of VVV CL001 cluster with MUSE

Olivares Carvajal, J. (**incl. Gran, F.**) 2022, MNRAS, 513, 3993 (arXiv:2204.06628)

Variable stars in the VVV globular clusters. II. NGC 6441, NGC 6569, NGC 6626 (M 28), NGC 6656 (M 22), 2MASS-GC 02, and Terzan 10

Alonso-García, J. (**incl. Gran, F.**) 2021, A&A, 651, 47 (arXiv:2105.05825)

¹ADS library: <https://ui.adsabs.harvard.edu/public-libraries/sxdI6LnxS7mbdg2sy8mNQ>