

Felipe Eduardo Gran Merino

Ph.D. student at Instituto de Astrofísica
Pontificia Universidad Católica de Chile
Millennium Institute of Astrophysics (MAS) graduate student
European Southern Observatory (ESO Chile) graduate alumnus
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PERSONAL DETAILS

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

EDUCATION

Ph.D. in Astrophysics: March 2016 - Present
Pontificia Universidad Católica de Chile
Ph.D. candidate: approved May 2018
ESO Chile Studentship programme: since September 2019
Expected thesis defense: before March 4th 2022

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

EXPERIENCE

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

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

M.Sc. Thesis: March 2015 - August 2015
Mapping the outer bulge with RR Lyrae stars from the VVV survey.
Advisors: Manuela Zoccali (PUC, Chile) and Dante Minniti (UNAB, Chile)

B.Sc. Thesis: March 2013 - August 2013
Long-Period variable stars in the VVV survey.
Advisors: Dante Minniti (PUC, Chile) and Roberto Saito (UFS, Brazil)

FONDECYT projects technical staff: December 2012 - July 2015
– *3D Structure, 3D Kinematics and Chemical Abundances of the Spheroid and Bar in the Inner Milky Way*
– *Stellar Evolution and Variability Studies in the Era of Large Surveys*
– *VVV Templates Project*
Proyecto FONDECYT Regular 1110326, 1141141, and 1150345
Advisors: Márcio Catelan (PUC, Chile) and Manuela Zoccali (PUC, Chile)

Assistantships	Multiple assistantships since 2012: Astronomy 101, Stellar and Experimental Astrophysics, Data Analysis, and Scientific Assistant at PUC Observatory.
ACADEMIC GRANTS	<p>“CONICYT: Beca de asistencia a eventos”: October 2018 - December 2018 Selected for a grant to attend two conferences: IAC XXX Canary Islands Winter School of Astrophysics: Big Data Analysis in Astronomy (November 2018, Spain) and The Galactic Bulge at the crossroads (December 2018, Chile)</p> <p>March 2017 - December 2019 “CONICYT: Concurso Becas de Doctorado en Chile”: Selected for a grant to continue Ph.D. studies</p> <p>March 2014 - July 2015 “CONICYT: Concurso Becas de Magíster en Chile”: Selected for a grant to continue M.Sc. studies</p>
SKILLS	<p>Languages: Spanish (native language) English (IELTS certification B2/6.5 overall, 2018)</p> <p>Programming Language: Python (advanced level, total experience: 8 years) ADQL, HTML, C# for Unity (intermediate level)</p> <p>Frequently Used Software: TOPCAT, STILTS, LaTeX</p> <p>Community service: MNRAS referee Graduate student representative (2017-2019)</p> <p>Outreach activities: MAS sticker album: scientific development (MAS, 2022), Live interview “Astronomy in your live” (MAS, 2020), Science Party and Solar Eclipse stands (MAS and GMTO, 2019-2020)</p>
CONFERENCES AND SELECTED WORKSHOPS	<p>– Star Clusters: the Gaia Revolution: Online presentation.</p> <p>– Virtual EAS 2021 Annual Meeting: Online poster.</p> <p>– Gaia EDR3 Early Science and Best Practices: Online workshop.</p> <p>– Two Thirty Minute Talks at ESO Chile: Oral and Online presentations.</p> <p>– SOCHIAS XVI Annual Meeting 2020: Online presentation.</p> <p>– Nice WG4 Workshop: A Dynamical View of the Sky: Oral presentation.</p> <p>– Galactic Bulge at the Crossroads: Oral presentation.</p> <p>– XXX Canary Islands Winter School of Astrophysics: Big Data Analysis in Astronomy: Poster presentation.</p> <p>– Second La Serena School for Data Science</p> <p>– Harvard-Chile Special Workshop on Data Science</p> <p>– Multiple VISTA Variables in the Vía Láctea Science Meetings</p>
APPROVED OBSERVING PROGRAMS	<p>GSAOI at Gemini South Observatory PI: F. Gran, December 2020; 10 hours (not observed due pandemic situation).</p> <p>FEROS at La Silla Observatory PI: F. Gran, February 2020: 3 nights (observing experience: 10 days, July 2021).</p> <p>MUSE at Paranal Observatory PI: F. Gran, December 2018, 2019: 14 hours.</p> <p>SPARTAN at SOAR Observatory PI: F. Gran, June 2019; 1 night.</p>

PUBLICATIONS – First author:

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: 15.**

Publications as a first author: 5, as a co-author: 31, refereed: 23, and non-refereed: 13.

– **Latest three co-author publications:**

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)

CAPOS: The bulge Cluster APOgee Survey I. Overview and initial ASPCAP results

Geisler, D. (**incl. Gran, F.**) 2021, A&A, 652, 157 (arXiv:2106.00024)

How many components? Quantifying the complexity of the metallicity distribution in the Milky Way bulge with APOGEE

Rojas-Arriagada, A. (**incl. Gran, F.**) 2020, MNRAS, 499, 1037 (arXiv:2007.13967)

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