



Felipe Gran

Curriculum Vitae

PERSONAL DETAILS

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| <i>Full Name</i> | Felipe Eduardo Gran Merino |
| <i>Birthday</i> | July 20, 1989 |
| <i>Citizenship</i> | Chilean |
| <i>RUT</i> | 17.089.167-8 |
| <i>Address</i> | 4519 Los Villares, Los Andes |
| <i>Phone</i> | (+56 9) 6515 2369 |
| <i>Mail</i> | fgran@astro.puc.cl; fegran@uc.cl |
| <i>Webpage</i> | http://fegran.github.io |
| <i>Family status</i> | 1 child - born September 4 st 2012 |

EDUCATION

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|---|-----------------------|
| MSc. in Astrophysics <i>Pontificia Universidad Católica de Chile</i> | 2013 Aug. - 2015 Aug. |
| Licenciatura en Astronomía <i>Pontificia Universidad Católica de Chile</i> “Distinción máxima” | 2008 Mar. - 2013 Aug. |

EXPERIENCES

Practical

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| Graduate Thesis <i>Mapping the outer bulge with RRab stars from the VVV Survey</i> Advisor: Manuela Zoccali (PUC, Chile) and Dante Minniti (UNAB, Chile) | 2015 Mar. - 2015 Aug. |
| Undergraduate Thesis <i>Long-Period Variable Stars in the VVV Survey</i> Advisor: Dante Minniti (PUC) and Roberto Saito (UFS, Brazil) | 2013 Mar. - 2013 Aug. |
| Summer Practice <i>Commissioning and characterization of the spectrograph at UC Observatory</i> Advisor: Felipe Barrientos | 2012 Jan. |

Assistantships

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| Data analysis II <i>Course assistant</i> Professor: Manuela Zoccali | 2014 Mar. - 2014 Dec. |
| Astronomy <i>Scientific assistant at UC Observatory</i> | 2014 Mar.- 2014 Dec. |

Professor: Felipe Barrientos

Experimental Astrophysics

Course assistant

Professor: Leopoldo Infante

2013 Mar. - 2014 Dec.

Astronomy

Scientific assistant at UC Observatory

Professor: Felipe Barrientos

2012 Mar.- 2013 Jul.

Astronomy

Course assistant and corrector

Professor: Rolando Dunner

2013 Mar. - 2013 Jul.

Physics for Sciences

Course corrector

Professor: Heman Bhuyan

2013 Mar. - 2013 Jul.

Stellar Astrophysics

Course assistant

Professor: Julio Chanamé

2012 Aug.- 2012 Dec.

Physics for Sciences

Course corrector

Professor: Juvenal Letelier

2012 Aug. - 2012 Dec.

Differential Equations

Laboratory Assistant

Professor: Mónica Musso

2010 Ago. - 2010 Dec.

Academic grants and other experiences

3D Structure, 3D Kinematics and Chemical Abundances of the Spheroid and Bar in the Inner Milky Way - Technical Staff

Proyecto FONDECYT Regular 1150345

Advisor: Manuela Zoccali

2015 Apr. - 2015 Jul.

“CONICYT: Concurso Becas de Magister en Chile”

Selected for a grant to continue MSc. studies

Ranked 18th of 1732 Chilean students with a score of 4,851/5,000.

2014 Mar. - 2015 Jul.

Stellar Evolution and Variability Studies in the Era of Large Surveys - Technical Staff

Proyecto FONDECYT Regular 1141141

Advisor: Márcio Catelan

2014 Mar. - 2015 Mar.

VVV Templates Project - Technical Staff

Proyecto FONDECYT Regular 1110326

Advisor: Márcio Catelan

2012 Dec. - 2014 Feb.

SKILLS

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| <i>Languages</i> | Spanish (native language) English |
| <i>OS</i> | UNIX |
| <i>Programming Language</i> | Python |
| <i>Astronomical software</i> | Aladin, IRAF, TOPCAT, STILTS |
| <i>Text composition</i> | LaTeX |
| <i>Github Repository</i> | github.com/fegran |

CONFERENCES AND WORKSHOPS

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| XII Annual SOCHIAS Meeting <i>Poster: Outer bulge RR Lyrae stars in the VVV Survey</i> Co-I: Dante Minniti and Roberto Saito Puerto Varas, Chile | 2015 Mar. |
| 6th VISTA Variables in the Vía Láctea Science Meeting <i>Oral presentation: Outer bulge RR Lyrae stars in the VVV Survey</i> Co-I: Dante Minniti and Roberto Saito Puerto Varas, Chile | 2015 Mar. |
| Astroinformatics 2014 <i>Poster: Outer Bulge RR Lyrae stars in the VVV Survey</i> Co-I: D. Minniti, R. K. Saito I. Dékány, C. Navarrete, I. McDonald, R. Contreras Ramos and M. Catelan Viña del Mar, Chile | 2014 Aug. |
| 1st Workshop of the Millennium Institute of Astrophysics <i>Poster: Outer Bulge RR Lyrae stars in the VVV Survey</i> Co-I: D. Minniti, R. K. Saito I. Dékány, C. Navarrete, I. McDonald, R. Contreras Ramos and M. Catelan Los Andes, Chile | 2014 Aug. |
| Second La Serena School for Data Science <i>Participant</i> La Serena, Chile | 2014 Aug. |
| 5th VISTA Variables in the Vía Láctea Science Meeting <i>Participant</i> Concón, Chile | 2014 Apr. |
| Harvard-Chile Special Workshop on Data Science <i>Participant</i> Santiago and La Serena, Chile | 2014 Jan. |
| 4th VISTA Variables in the Vía Láctea Science Meeting <i>Poster: A search for high-amplitude variables in the VVV data</i> | 2013 Mar. |

Co-I: Dante Minniti and Roberto Saito
Viña del Mar, Chile

4th VISTA Variables in the Vía Láctea Science Meeting 2013 Mar.

Poster: Digitizing IR light curves for VVV Templates Project

Co-I: Márcio Catelan, Rodolfo Angeloni and the VVV Templates team
Viña del Mar, Chile

APPROVED OBSERVING PROGRAMS

OSIRIS at SOAR Observatory 2013 Mar.

Follow-up observations of Galactic novae candidates discovered by the VVV Survey

P.I.: Roberto Saito

Co-I: Rodolfo Angeloni, Marcio Catelan, **Felipe Gran**, Dante Minniti, Tiago Ribeiro

VIMOS at Paranal Observatory 2014 Dec.

Kinematics and Chemical Abundances of RR Lyrae variables in the Galactic bulge

P.I.: Manuela Zoccali

Co-I: incl. **Felipe Gran**

CURRENT WORK AND TOPICS OF INTEREST

Variable Stars:

RR Lyrae and Long-Period variables stars.

The Milky Way bulge:

Galactic bulge structure, stellar populations
and proper motions through the VVV Survey.

Computer Science:

Astrostatistics and astrophysics:
Automatic light-curve classification.

PUBLICATIONS

Refereed Publications

VVV Survey Observations of a Microlensing Stellar Mass Black Hole Candidate in the Field of the Globular Cluster NGC 6553

Minniti, D. et al. (incl. Gran, F.)

2015, ApJ, 810L, 20M

Clustered Cepheid Variables 90 kiloparsec from the Galactic Center

Chakrabarti, S., Saito, R. K., Quillen A., Gran, F., Klein, C., Blitz, L.

2015, ApJ, 802L, 4

Updated Census of RR Lyrae Stars in the Globular Cluster ω Centauri

Navarrete, C. et al. (incl. Gran, F.)

2015, A&A 577, A99

Bulge RR Lyrae stars in the VVV tile b201

Gran, F., Minniti, D.; Saito, R. K.; Navarrete, C.; Dékány, I.; McDonald, I.; Contreras Ramos, R.; Catelan, M.

2015, A&A, 575, 114

Variable stars in the VVV globular clusters.

I. 2MASS-GC02 and Terzan10

Alonso-García, J.; Dékány, I.; Catelan, M.; Contreras Ramos, R.; Gran, F.; Amigo, P.; Leyton, P.; Minniti, D.

2015, AJ, 149, 99

The VVV Templates Project Towards an automated classification of VVV light-curves.

I. Building a database of stellar variability in the near-infrared

Angeloni, R., et al. (incl. Gran, F.)

2014, A&A, 567, 100

A misidentified RR Lyrae variable star in omega Centauri

Navarrete, C.; Catelan, M.; Contreras Ramos, R.; Alonso-Garcia, J.; Dekany, I.; Gran, F.; Hempel, M.; Angeloni, R.

2013, IBVS, 6078, 1

Non-refereed Publications

Variability Survey of ω Centauri in the Near-IR: P–L Relations

Navarrete, C. et al. (incl. Gran, F.)

2015, IAUGA, 2258379N

Variable Stars in VVV Globular Clusters

Contreras Ramos, R. et al. (incl. Gran, F.)

2015, IAUGA, 2257751C

The VVV Templates Project

Contreras Ramos, R. et al. (incl. Gran, F.)

2014, RMxAC, 44S, 151C

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

Navarrete, C. et al. (incl. Gran, F.)

2014, RMxAC, 44, 161N

Searches for variability in the Milky Way bulge with the VVV Survey

Saito, R. K. et al. (incl. Gran, F.)

2014, RMxAC, 44, 70S

Stellar variability in the VVV survey: overview and first results

Catelan, M., et al. (incl. Gran, F.)

2014, IAUS, 301, 395

Stellar Variability in the VVV survey

Catelan, M., et al. (incl. Gran, F.)

40 Years of Variable Stars: A Celebration of Contributions by Horace A. Smith (ed. K. Kinemuchi, H. A. Smith, N. De Lee, & C. Kuehn), 2013, arXiv:1310.1996