



Felipe Gran

Curriculum Vitae

PERSONAL DETAILS

<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 2) 2354 7052 (office 117)
<i>Mail</i>	fgran@astro.puc.cl; fegran@uc.cl
<i>Family status</i>	1 child - born September 4 st 2012

EDUCATION

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

EXPERIENCES

Practical

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

Astronomy Lab II <i>Course assistant</i> Professor: Manuela Zoccali	2014 Mar. - 2014 Dec.
Astronomy <i>Scientific assistant at UC Observatory</i> Professor: Felipe Barrientos	2014 Mar.- 2014 Dec.
Experimental Astrophysics <i>Course assistant</i> Professor: Leopoldo Infante	2013 Mar. - 2014 Dec.
Astronomy	2012 Mar.- 2013 Jul.

Scientific assistant at UC Observatory

Professor: Felipe Barrientos

Astronomy

Course assistant

Professor: Rolando Dunner

2013 Mar. - 2013 Jul.

Astronomy

Course 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

“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. - current

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

Proyecto FONDECYT Regular 1141141

Advisor: Márcio Catelan

2014 Mar. - current

VVV Templates Project - Technical Staff

Proyecto FONDECYT Regular 1110326

Advisor: Márcio Catelan

2012 Dec. - 2014 Feb.

SKILLS

<i>Languages</i>	Spanish (native language) English
<i>OS</i>	UNIX
<i>Programming Language</i>	Python
<i>Graphical software</i>	DataThief, SuperMongo, Matplotlib
<i>Astronomical software</i>	Aladin, IRAF, TOPCAT
<i>Text composition</i>	LaTeX

CONFERENCES AND WORKSHOPS

Astroinformatics 2014

2014 Aug.

Poster: Outer Bulge RR Lyrae stars in the VVV Survey

Co-I: D. Minniti, R. K. Saito I. Dékány, C. Navarrete, I. McDonald, R. Contreras Ramos and M. Catelan

Viña del Mar, Chile

1st Workshop of the Millennium Institute of Astrophysics

2014 Aug.

Poster: Outer Bulge RR Lyrae stars in the VVV Survey

Co-I: D. Minniti, R. K. Saito I. Dékány, C. Navarrete, I. McDonald, R. Contreras Ramos and M. Catelan

Los Andes, Chile

Second La Serena School for Data Science

2014 Aug.

Participant

La Serena, Chile

5th VISTA Variables in the Vía Láctea Science Meeting

2014 Apr.

Participant

Concón, Chile

Harvard-Chile Special Workshop on Data Science

2014 Jan.

Participant

Santiago and La Serena, Chile

International Network of Catholic Astronomical Institutions (INCAI) Workshop

2013 Aug.

Participant

Santiago, Chile

4th VISTA Variables in the Vía Láctea Science Meeting

2013 Mar.

Poster: A search for high-amplitude variables in the VVV data

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

UC Observatory Science Day

2013 May.

Participant

Santiago, Chile

SELECTED OBSERVING PROGRAMS

OSIRIS at SOAR Telescope

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

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.

Data Science:

Astrostatistics and astrophysics:
Automatic light-curve classification.

PUBLICATIONS

Refereed Publications

Clustered Cepheid Variables 90 kiloparsec from the Galactic Center

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

2015, in press ApJ Letters

An Updated Census of RR Lyrae Stars in the Globular Cluster ω Centauri (NGC 5139)

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

2015, in press A&A, arXiv150102286N

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, in press A&A, arXiv150100947G

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-García, J.; Dekany, I.; **Gran, F.**; Hempel, M.; Angeloni, R.*

2013, IBVS, 6078, 1

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.*

Accepted for publication in The Astronomical Journal

2014, arXiv1411.1696A

Non-refereed Publications

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