

# 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>Mail</i>	fgran@astro.puc.cl; fgran@uc.cl
<i>Webpage</i>	fgran.github.io
<i>Family status</i>	1 child - born September 4 <sup>st</sup> 2012

## EDUCATION

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<b>PhD in Astrophysics</b> <i>Pontificia Universidad Católica de Chile</i>	2016 Mar. -
<b>MSc in Astrophysics</b> <i>Pontificia Universidad Católica de Chile</i> “Distinción máxima”	2013 Aug. - 2015 Aug.
<b>Licenciatura en Astronomía</b> <i>Pontificia Universidad Católica de Chile</i> “Distinción máxima”	2008 Mar. - 2013 Aug.

## EXPERIENCES

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### Practical

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

### Assistantships

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

Professor: Felipe Barrientos

**Experimental Astrophysics**

*Teaching assistant*

Professor: Leopoldo Infante

2013 Mar. - 2014 Dec.

**Astronomy**

*Scientific assistant at UC Observatory*

Professor: Felipe Barrientos

2012 Mar.- 2013 Jul.

**Astronomy**

*Teaching assistant*

Professor: Rolando Dunner

2013 Mar. - 2013 Jul.

**Stellar Astrophysics**

*Teaching assistant*

Professor: Julio Chanamé

2012 Aug.- 2012 Dec.

Academic grants and other experiences

**“CONICYT: Concurso Becas de Doctorado en Chile”**

*Selected for a grant to continue PhD. studies*

2017 Mar. - 2019 Dec.

**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*

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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**ESO Star Cluster Meeting** 2017 Mar.  
*Oral presentation: High-resolution analysis of the globular cluster NGC 6544*  
Co-I: Manuela Zoccali  
Santiago, Chile

**Data Driven Modeling of Spectra using The Cannon** 2016 Mar.  
  
La Serena, Chile

**6<sup>th</sup> VISTA Variables in the Vía Láctea Science Meeting** 2015 Mar.  
*Oral presentation: Outer bulge RR Lyrae stars in the VVV Survey*  
Co-I: Dante Minniti and Roberto Saito  
Puerto Varas, Chile

**Second La Serena School for Data Science** 2014 Aug.  
  
La Serena, Chile

**Harvard-Chile Special Workshop on Data Science** 2014 Jan.  
  
Santiago and La Serena, Chile

## APPROVED OBSERVING PROGRAMS

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**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

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*The Milky Way bulge:*

Globular clusters, structure and proper motions.

*Variable Stars:*

RR Lyrae stars.

## PUBLICATIONS

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### Refereed Publications

#### **FSR 1716: A New Milky Way Globular Cluster Confirmed Using VVV RR Lyrae Stars**

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

2017, ApJ, 838, 14

#### **A machine learned classifier for RR Lyrae in the VVV survey**

*Elorrieta, F. et al. (incl. Gran, F.)*

2016, A&A, 595, 82

#### **Discovery of RR Lyrae Stars in the Nuclear Bulge of the Milky Way**

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

2016, ApJ, 830, 14

#### **Mapping the outer bulge with RRab stars from the VVV Survey**

*Gran, F., Minniti, D., Saito, R. K., et al.*

2016, A&A, 591, 145

#### **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, 810, 20

#### **Clustered Cepheid Variables 90 kiloparsec from the Galactic Center**

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

2015, ApJ, 802, 4

#### **Updated Census of RR Lyrae Stars in the Globular Cluster $\omega$ 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