

# Felipe Gran M.

*Curriculum Vitae*

## PERSONAL DETAILS

<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; fegran@uc.cl
<i>Webpage</i>	fegran.github.io
<i>Family status</i>	1 child - born September 4 <sup>st</sup> 2012

## EDUCATION

<b>PhD in Astrophysics</b> <i>Pontificia Universidad Católica de Chile</i> <i>PhD Candidate</i> <i>Aproved: May 2018</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

### Practical

<b>MSc 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>	TOPCAT, STILTS, Aladin
<i>Text composition</i>	LaTeX
<i>Github Repository</i>	github.com/fegran

## CONFERENCES AND WORKSHOPS

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<b>ESO Star Cluster Meeting</b>	2017 Mar.
<i>Oral presentation: High-resolution analysis of the globular cluster NGC 6544</i>	
Co-I: Manuela Zoccali Santiago, Chile	
<b>Data Driven Modeling of Spectra using The Cannon</b>	2016 Mar.
<i>La Serena, Chile</i>	
<b>6<sup>th</sup> VISTA Variables in the Vía Láctea Science Meeting</b>	2015 Mar.
<i>Oral presentation: Outer bulge RR Lyrae stars in the VVV Survey</i>	
Co-I: Dante Minniti and Roberto Saito Puerto Varas, Chile	
<b>Second La Serena School for Data Science</b>	2014 Aug.
<i>La Serena, Chile</i>	
<b>Harvard-Chile Special Workshop on Data Science</b>	2014 Jan.
<i>Santiago and La Serena, Chile</i>	

## APPROVED OBSERVING PROGRAMS

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<b>APOGEE-2S at Las Campanas Observatory</b>	2017 Mar.
<i>Exploring the heart of our Galaxy</i>	
P.I.: Manuela Zoccali Co-I: incl. <b>Felipe Gran</b>	
<b>OSIRIS at SOAR Observatory</b>	2013 Mar.
<i>Follow-up observations of Galactic novae candidates discovered by the VVV Survey</i>	
P.I.: Roberto Saito Co-I: Rodolfo Angeloni, Marcio Catelan, <b>Felipe Gran</b> , Dante Minniti, Tiago Ribeiro	
<b>VIMOS at Paranal Observatory</b>	2014 Dec.
<i>Kinematics and Chemical Abundances of RR Lyrae variables in the Galactic bulge</i>	
P.I.: Manuela Zoccali Co-I: incl. <b>Felipe Gran</b>	

## CURRENT WORK AND TOPICS OF INTEREST

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<i>The Milky Way bulge:</i>	Globular clusters, structure and proper motions.
<i>Variable Stars:</i>	RR Lyrae stars.

## PUBLICATIONS

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### Refereed Publications

#### **VVV Survey Orbital Period Confirmation for the Cataclysmic Variable IGR J17014-4306**

*Ferreira, T., R. et al. (incl. Gran, F.)*

2018, RNAAS, 2, 39

#### **Proper motions in the VVV Survey: Results for more than 15 million stars across NGC 6544**

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

2017, A&A, 608, 140

#### **Near-IR period-luminosity relations for pulsating stars in $\omega$ Centauri (NGC 5139)**

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

2017, A&A, 604, 120

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

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. et al.*

2015, A&A, 575, 114

**Variable stars in the VVV globular clusters.**

**I. 2MASS-GC02 and Terzan10**

*Alonso-García, J. et al. (incl. Gran, F.)*

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

2013, IBVS, 6078, 1