

# Curriculum Vitae - Federico García

## 1 Personal information

Name: Federico García  
Nationality: Argentine  
Affiliation: Instituto Argentino de Radioastronomía,  
C.C.5, (1894) Villa Elisa, Buenos Aires, Argentina  
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## 2 Awards

- **Postdoc in Astronomy** (current position) of the National Scientific and Technical Research Council (CONICET) at the Argentinian Institute of Radio Astronomy (IAR).
- **PhD in Astronomy** at the Faculty of Astronomy and Geophysics (FCAGLP) of the National University of La Plata (UNLP), Argentina. PhD Thesis defended on March 30th, 2016. Mark: 10.
- **M.Sc. in Astronomy** from FCAGLP in March 2011. Average mark: 9.85/10.0.
- **Electromechanical Technician** from “Ejército de Los Andes” High-School at San Rafael, Argentina. Average mark: 9.91/10.0.

## 3 Refereed publications list (last 2 years)

### 3.1 Refereed publications list

- 14) **Indications of a Si-rich bilateral jet of ejecta in the Vela SNR observed with XMM-Newton**  
Authors: **García, F.**, Suárez, A. E., Miceli, M., Bocchino, F., Combi, J. A., Orlando, S., Sasaki, M.  
Journal: Accepted by Astronomy and Astrophysics Letters (A&AL). July 8th, 2017.
- 13) **Structure of Compact Stars in R-squared Palatini Gravity**  
Authors: Teppa Pannia, F., **García, F.**, Perez Bergliaffa, S., Orellana, M., Romero, G.  
Journal: General Relativity and Gravitation (GR&G), 49, 25 (2017).
- 12) **Charged Proca Stars**  
Authors: Salazar Landea, I., **García, F.**  
Journal: Physical Review D (PRD), 94, 104006 (2016).
- 11) **Detailed study of SNR G306.3-0.9 using XMM-Newton and Chandra observations**  
Authors: Combi, J. A., **García, F.**, Suárez, A.E., Luque-Escamilla, P., Parón, S., Miceli, M.  
Journal: Astronomy & Astrophysics (A&A), 592, A125 (2016).
- 10) **Discovery of a deep Seyfert-2 galaxy at  $z = 0.222$  behind NGC 300**  
Authors: Combi, J. A., **García, F.**, Rodríguez, M. J., Gamen, R., Cellone, S. A.  
Journal: Monthly Notices of the Royal Astronomical Society (MNRAS), 460, 1640C (2016).
- 9) **Magnetised accretion discs in Kerr spacetimes: II. Hot spots**  
Authors: **García, F.**, Ranea-Sandoval, I. F., Johannsen, T.  
Journal: Astronomy & Astrophysics 587, A141 (2016).

You can find my full list of publications following the next link in ADS:

[http://adsabs.harvard.edu/cgi-bin/nph-abs\\_connect?library&libname=FG&libid=4dd690caf1](http://adsabs.harvard.edu/cgi-bin/nph-abs_connect?library&libname=FG&libid=4dd690caf1)  
or my Google Scholar profile in: [https://scholar.google.com.ar/citations?user=lr\\_XXXOAAAAJ&hl=es](https://scholar.google.com.ar/citations?user=lr_XXXOAAAAJ&hl=es)

## 4 Seminars and Contributions to Conferences (last 2 years)

- 27) **Fragments in the Vela SNR and their connection with the SN explosion mechanism**, **F. García**. Seminar at FCAGLP, Argentina, May 31, 2017.
- 26) **Three Lectures in X-ray timing analysis (COSPAR Capacity Building Workshop)**, **F. García**. Universidad de Río Negro, Viedma, Argentina, February 20 to March 3, 2017.
- 25) **Observable properties of accretion disks in Kerr spacetimes (APEC Seminar)**, **F. García**. Kavli IPMU, University of Tokyo, Kashiwa, Japan, January 12, 2017.
- 24) **Probing generalized Kerr spacetimes through accretion disks (talk)**, **F. García**. National Astronomical Observatory of Japan (NAOJ), Mitaka, Japan, January 6, 2017.

- 23) **Detailed X-ray study of the young SNR G306.3-0.9** (*talk*, **F. García**, Workshop Links between Supernovae and Supernova Remnants in Argentina, La Plata, Argentina, November 10, 2016.
- 22) **Observational properties of accretion disks in Kerr's metric** (*talk*), **F. García**, I.F. Ranea-Sandoval, Colloquium at Instituto Balseiro, Bariloche, Argentina, October 11, 2016.

## 5 Fellowships obtained (last 2 years)

- 9) **Trans-National Access Fellowship from AHEAD** (Dec 2016). Topic: X-ray analysis of Supernova Remnants with XMM-Newton. Supervisor: Dr. Marco Miceli (Osservatorio Astronomico di Palermo, INAF, Italy).
- 8) **Postdoctoral Fellowship from CONICET, Scientific and Technical Research Council, Argentina** (Apr 2016 - Mar 2018). Topic: *Theoretical and observational research of neutron stars in different astrophysical environments*. Supervisor: Dr. Jorge A. Combi.
- 7) **Mobility Fellowship from AUIP** (May 2016 - Jun 2016). Topic: X-ray counterparts of unidentified  $\gamma$ -ray sources. Supervisors: Prof. P. Luque-Escamilla & Prof. J. Martí (University of Jaén, Spain).

## 6 International Scientific Visits (last 2 years)

- **Kavli Institute of Mathematics and Physics of the Universe (IMPU), Tokio, Japan.**  
*Period:* 27/12/2016 to 19/01/2017  
*Funding:* Kavli IMPU.
- **Astronomy Department, University of Southampton, UK.**  
*Period:* 17/12/2016 to 23/12/2016  
*Funding:* U. Southampton.
- **Osservatorio Astronomico di Palermo, Istituto Nazionale di Astrofisica, Palermo, Italy.**  
*Period:* 3/12/2016 to 16/12/2016  
*Funding:* Advances in High-Energy Astrophysics Fellowship (AHEAD).
- **Escuela Politécnica Superior, University of Jaén, Spain.**  
*Period:* 24/05/2016 to 12/06/2016  
*Funding:* Mobility Fellowship AUIP.

## 7 University Teaching (last 2 years)

- Aug 2015 - present: **Head of Practical Assignments of Introduction to X-ray Astronomy** at FCAGLP.
- Oct 2013 - present: **Graduated Teaching Assistant of Physics III** at FCAGLP.

## 8 Thesis supervision

- Co-advisor of the M. Sc. Thesis in Astronomy of F. Fogantini. Defended on March 30, 2017. Mark: 10.

## 9 Membresy of Organizing Committees

- SOC and LOC Member of the Workshop *Links between Supernovae and Supernova Remnants in Argentina*, La Plata, Argentina, Nov 9-11, 2016.

## 10 Meetings and Schools attendance (last 2 years)

- *COSPAR Capacity Building Workshop* on X-ray Astrophysics, Viedma, Argentina. Feb 20 - Mar 3, 2017.
- Workshop *Links between Supernovae and Supernova Remnants*, La Plata, Argentina. Nov 9-11, 2016.
- QUBIC in Argentina Workshop, IAR, Buenos Aires, Argentina. Apr 12, 2016.
- Workshop on Gravitational Waves, Cosmology and Compact Objects, La Plata, Argentina. Mar 8-9, 2016.

## 11 Public Outreach activities (last 2 years)

- Outreach talk at Star Party Valle Grande, Mendoza, Argentina, May 2017. Topic: "Heavy-weight shocks: the binary system HD 93129A".
- Outreach talk at Star Party Valle Grande, Mendoza, Argentina, May 2016. Topic: "The space-time in the vicinities of black holes".
- Director of "The right to dark skies for young prisoners" outreach project from the UNLP 2014-2016. Interdisciplinary project involving astronomical observations for young prisoners in Abasto, Buenos Aires, Argentina.