

# Curriculum Vitae

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## Yamila Miguel

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*My development as a scientist includes research, teaching, mentoring and outreach. In research, understanding the information hidden in atmospheric observable features in hot rocky and giant exoplanets is one of my main interests. These planets are targets for current and future space and ground base observations. Characterising their atmospheric structure, composition and spectral features, putting them - and our own Solar System - into context to link them with the planetary interior and its formation history is the aim of my work.*

*Teaching, mentoring and outreach are very rewarding activities for me and also a fundamental part of my growth as a scientist. Teaching is a way to guide students towards the development of curiosity and critical thinking. Promoting science through mentoring minorities allows me to contribute to both the scientific community and the society, and outreach gives me the chance to increase awareness of astrophysics, stimulate interest in science and inspire future scientists.*

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**Research Interests:** Exoplanet atmospheres: chemistry and radiative transfer, Planetary interiors, Planetary systems formation.

## Current Position

**CNES Postdoctoral Fellow, Observatoire de la Côte d'Azur (OCA) - France**

## Education

2011 PhD Astronomy Universidad Nacional de La Plata (UNLP) - Argentina

2007 BA Astronomy UNLP - Argentina

## Employment, Research Experience & Awards

Research

10 years

Teaching

6 years

Outreach

11 years

**Publications** - 21 publications in peer-reviewed international journals. Total citations: 320 (as October 2017).

## Employment, research experience and awards (continue)

2016 - 2018	<b>CNES postdoctoral Fellowship</b> - OCA - France
2015 - 2016	<b>Henri Poincare Postdoctoral Fellowship</b> - OCA - France
2013	<b>Guest-Lecturer</b> "Astrophysics & Astrobiology II" - Universität Heidelberg - Germany
2011 - 2014	<b>MPIA Postdoctoral Fellowship</b> - Germany
2010 - 2011	<b>CONICET<sup>1</sup> type II Graduate Fellowship</b> - Argentina
2007 - 2009	<b>CONICET type I Graduate Fellowship</b> - Argentina
2005 - 2011	<b>Educator, Science Coach</b> - Mundo Nuevo <sup>2</sup>
2008 - 2010	<b>Lecturer</b> "Knowing the Universe" - UNLP - Argentina
2007 - 2011	<b>Teaching Assistant</b> "Spherical Astronomy" - UNLP - Argentina
2008 - 2009	<b>Teaching Assistant</b> "Calculus I" - UNLP - Argentina
2005 - 2007	<b>Teaching Assistant</b> "Modern Physics" - UNLP - Argentina
2005 - 2007	<b>Teaching Assistant</b> "Calculus I" - UNLP - Argentina
2007	<b>Joaquin V. Gonzalez Award, to the best GPA</b> - UNLP - Argentina
2001 - 2007	<b>Museum Guide</b> - Museum of Astronomy and Geophysics - UNLP

## Publication List (Refereed papers in primary journals only)

### First-author publications

**Miguel, Y.** Guillot, T. and Fayon, L. *Jupiter internal structure: the effect of different equations of state*, 2016, *A&A*, 596, A114. ([Link](#))

**Miguel, Y.** & Ida, S., *A semi-analytical model for exploring Galilean satellites formation from a massive disk*, 2016, *Icarus*, Volume 266, 1 ([Link](#)).

**Miguel, Y.**, Kaltenecker L., Linsky, Jeffrey L. & Rugheimer, S., *The effect of Lyman  $\alpha$  radiation on mini-Neptune atmospheres around M stars: application to GJ 436b*, 2015, *MNRAS*, 446, 345 ([Link](#)).

**Miguel, Y.** & Kaltenecker L., *Exploring atmospheres of hot mini-Neptunes and extrasolar giant planets orbiting different stars with application to HD 97658b, WASP-12b, CoRoT-2b, XO-1b and HD 189733b*, 2014, *ApJ*, 780, 166 ([Link](#)).

**Miguel, Y.**, Kaltenecker L., Fegley, B. Jr. & Schaefer L., *Composition of hot super-Earth atmospheres: exploring Kepler candidates*, 2012, *ApJ Letters*, 742, L19 ([Link](#)).

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<sup>1</sup> National Council of Scientific and Technical Research. Ministry of Science, Technology and Productive Innovation - Argentina

<sup>2</sup> Science and technology outreach program. UNESCO, UNLP, and Ministry of Culture and Education of Buenos Aires initiative

## First-author publications - (continue)

**Miguel, Y.**, Guilera, O. & Brunini, A., *The diversity of planetary systems architectures: contrasting theory with observations*, 2011, MNRAS, 417, 314 ([Link](#)).

**Miguel, Y.**, Guilera, O. & Brunini, A., *The role of the initial surface density profiles of the disc on giant planet formation: comparing with observations*, 2011, MNRAS, 412, 2113 ([Link](#)).

**Miguel, Y.** & Brunini, A., *Planet formation: statistics of spin rates and obliquities of extrasolar planets*, 2010, MNRAS, 403, 1935 ([Link](#)).

**Miguel, Y.** & Brunini, A., *Core instability models of giant planet accretion II: forming planetary systems*, 2009, MNRAS, 392, 324 ([Link](#)).

**Miguel, Y.** & Brunini, A., *Core instability models of giant planet accretion and the planetary desert*, 2008, MNRAS, 387, 463 ([Link](#)).

## Co-author publications

Mahapatra, G., Helling, Ch. and **Miguel, Y.**, *Cloud formation in evaporating planets: application to 55 Cnc e and CoRoT7b*, MNRAS in press ([Link](#)).

Espinoza, N., Fortney, J., **Miguel, Y.**, Thorngren, D., Murray-Clay, R., *Metal enrichment leads to low atmospheric C/O ratios in transiting exoplanets*, 2017, ApJL, 838, 1 ([Link](#)).

Bolton, S. J., Adriani, A., Adumitroaie, V., Allison, M., Anderson, J., Atreya, S., Bloxham, J., Brown, S., Connerney, J. E. P., DeJong, E., Folkner, W., Gautier, D., Grassi, D., Gulkis, S., Guillot, T., Hansen, C., Hubbard, W. B., Iess, L., Ingersoll, A., Janssen, M., Jorgensen, J., Kaspi, Y., Levin, S. M., Li, C., Lunine, J., **Miguel, Y.**, Mura, A., Orton, G., Owen, T., Ravine, M., Smith, E., Steffes, P., Stone, E., Stevenson, D., Thorne, R., Waite, J., Durante, D., Ebert, R. W., Greathouse, T. K., Hue, V., Parisi, M., Szalay, J. R., Wilson, R., 2017, *Jupiter's interior and deep atmosphere: the first close polar pass with the Juno spacecraft*, Science, 356 (6340), 821-825. ([Link](#)).

Kaspi, Y., Guillot, T., Galanti, E., **Miguel, Y.**, Helled, R., Hubbard, W. B., Militzer, B., Wahl, S. M., Levin, S., Connerney, J. E. P., Bolton, S. J., 2017, *The effect of differential rotation on Jupiter's low-degree even gravity moments*, Geophys. Res. Lett., 44, 5960-5968. ([Link](#)).

Wahl, S. M., Hubbard, W. B., Militzer, B., Guillot, T., **Miguel, Y.**, Movshovitz, N., Kaspi, Y., Helled, R., Reese, D., Galanti, E., Levin, S., Connerney, J. E., Bolton, S. J., 2017, *Comparing Jupiter interior structure models to Juno gravity measurements and the role of a dilute core*, Geophys. Res. Lett., 44 (11), 4649-4659 ([Link](#)).

Youngblood, A., France, K., Loyd, P.R.O., Brown, A., Mason, J. P., Schneider, Ch. P., Tilley, M., Berta-Thompson, Z., Buccino, A., Froning, C., Hawley, S. L., Linsky, J., Mauas, P. J. D., Redfield, S., Kowalski, A., **Miguel, Y.**, Newton, E.R., Roberge, A., Rugheimer, S., Segura, A., Vieytes, M., *The MUSCLES Treasury Survey IV: Scaling Relations for Ultraviolet, Ca II K, and Energetic Particle Fluxes from M dwarfs*, 2017, ApJ 843 (1), 31 ([Link](#)).

France, K., Loyd, P., Youngblood, A., Brown, A., Schneider A., Hawley, S., Froning, C., Linsky, J. L., Roberge, A., Buccino, A., Davenport, J. R., Fontenla, J. M., Kaltenegger, L., Kowalski, A. F., Mauas, P.J., **Miguel, Y.**, Redfield, S., Rugheimer, S., Tian, F., Vieytes, M. C., Walkowicz, L. M., Weisenburger, K. L., *The MUSCLES treasury survey I. Motivation and Overview*, 2016, ApJ, 820, 89 ([Link](#)).

Youngblood, A., France, K., Loyd, P.R.O., Linsky, J. L., Redfield, S., Schneider, C., Wood, B., Brown, A., Froning, C., **Miguel, Y.**, Rugheimer, S., Walkowicz, L., *The MUSCLES Treasury Survey II: Intrinsic*

## Co-author publications - (continue)

*Lyman Alpha and Extreme Ultraviolet Spectra of K and M Dwarfs with Exoplanets*, 2016, *ApJ*, 824, 101 ([Link](#)).

Domagal-Goldman, S.D., Wright, K.E., Adamala, K., Arina de la Rubia, L., Bond, J., Dartnell, L.R., Goldman, A.D., Lynch, K., Naud, M., Paulino-Lima, I.G., Singer, K., Walter-Antonio, M., Abrevaya, X.C., Anderson, R., Arney, G., Atri, D., Azúa-Bustos, A., Bowman, J.S., Brazelton, W. J., Brennecke, G. A., Carns, R., Chopra, A., Colangelo-Lillis, J., Crockett, C. J., DeMarines, J., Frank, E. A., Frantz, C., de la Fuente, E., Galante, D., Glass, J., Gleeson, D., Glein, G.R., Goldblatt, C., Horak, R., Horodyskyj, L., Kaçar, B., Kereszturi, A., Knowles, E., Mayeur, P., McGlynn, S., **Miguel, Y.**, Montgomery, M., Neish, C., Noack, L., Rugheimer, S., Stüeken, E. E., Tamez-Hidalgo, P., Imari Walker, S., Wong, T., *The Astrobiology Primer v2.0*, 2016, *Astrobiology*. Aug 2016, 16(8): 561-653 ([Link](#)).

Barge, L. M., Branscomb, E., Brucato, J. R., Cardoso, S. S. S., Cartwright, J. H. E., Danielache, S. O., Galante, D., Kee, T. P., Miguel, Y., Mojzsis, S., Robinson, K. J., Russell, M. J., Simoncini, E., Sobron, P., 2017, *Thermodynamics, Disequilibrium, Evolution: Far-From-Equilibrium Geological and Chemical Considerations for Origin-Of-Life Research*, *Origins of Life and Evolution of Biospheres*, 47 (1), 39-56 ([Link](#)).

Kaltenegger L., **Miguel, Y.** & Rugheimer, S., *Rocky exoplanet characterization and atmospheres*, 2012, *International Journal of Astrobiology*, 11, 297 ([Link](#)).

[Link to all publications \(ADS\)](#)

## Contribution to symposia and compiled volumes (refereed only)

Chaparro Molano, G., Agreda, E., **Miguel, Y.**, Casas-Miranda, R. A., 2017, Planet formation in density perturbed transitional disks: a grid model approach, *Revista Mexicana de Astronomía y Astrofísica Conference Series*, 49, 69

Linsky, J. L., France, K., **Miguel, Y.**, and Kaltenegger, L., 2016, Quiescent and flaring lyman- $\alpha$  radiation of host stars and effects on exoplanets, *Proceedings of the International Astronomical Union, IAU Symposium, Volume 320*, pp. 391-396

**Miguel, Y.**, and Kaltenegger, L., 2013, Hot Super-Earth Atmospheres, *The Early Evolution of the Atmospheres of Terrestrial Planets, Astrophysics and Space Science Proceedings, Volume 35*. ISBN 978-1-4614-5190-7. Springer Science+Business Media New York, p. 53

van Boekel, R., Benneke, B., Heng, K., Hu, R., Madhusudhan, N., Quanz, S., Benneke, Y., Bouwman, J., Chen, G., Decin, L., de Kok, R., Glauser, A., Gudel, M., Hauschildt, P., Henning, T., Jeers, S., Jin, S., Kaltenegger, L., Kerschbaum, F., Krause, O., Lammer, H., Luntzer, A., Meyer, M., **Miguel, Y.**, Mordasini, C., Ottensamer, R., Rank-Lueftinger, T., Reiners, A., Reinhold, T., Schmid, H., Snellen, I., Stam, D., Sun, Z., Vandenbussche, B., 2012, The Exoplanet Characterization Observatory (EChO): performance model EclipseSim and applications, *Space Telescopes and Instrumentation 2012: optical, infrared, and millimeter wave*. *Proceedings of the SPIE*, 8442, article id. 84421F, 21

**Miguel, Y.**, Guilera, O. M., & Brunini, A., 2011, Planetary systems formation and the diversity of extrasolar systems, *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, *Proceedings of the International Astronomical Union, IAU Symposium, Volume 276*, p. 441-442

## Contribution to symposia and compiled volumes - (continue)

Fernandez-Lajus, E., **Miguel, Y.**, Fortier, A., & Di Sisto, R. P., 2011, Monitoring and analyzing exoplanetary transits from Argentina, *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, Proceedings of the International Astronomical Union, IAU Symposium, Volume 276, p. 416-417

## White papers

France, K., Shkolnik, E., Linsky, J., Roberge, A., Ayres, T., Barman, T., Brown, A., Davenport, J., Desert, J.M., Domagal-Goldman, S., Fleming, B., Fontenla, J., Fossati, L., Froning, C., Hallinan, G., Hawley, S., Hu, R., Kaltenegger, L., Kasting, J., Kowalski, A., Loyd, P., Mauas, P., **Miguel, Y.**, Osten, R., Redfield, S., Rugheimer, S., Schneider, Ch., Segura, A., Stocke, J., Tian, F., Tumlinson, J., Vieytes, M., Walkowicz, L., Wood, B., Youngblood, A., 2015, Characterizing the Habitable Zones of Exoplanetary Systems with a Large Ultraviolet/Visible/Near-IR Space Observatory, Submitted in response to NASA call for white papers: "Large Astrophysics Missions to Be Studied by NASA Prior to the 2020 Decadal Survey" (arXiv:1505.011840). ([Link](#))

## International Collaborations

- **Juno Mission:** member of the science team of NASA Juno mission. I am a member of the interior working group. My role in the collaboration is to run interior model calculations to determine Jupiter core mass and total mass of heavy elements in the planet's interior. We published 3 papers (Bolton et al., 2017; Wahl et al., 2017; Kaspi et al., 2017). Since this is a NASA mission, most of its members are based in the US. The PI is Scott Bolton (SWRI, Texas, US). Working mostly with Tristan Guillot (Observatoire de la Cote d'Azur, France); William B. Hubbard (University of Arizona, US), Burkhard Militzer (U. of Berkeley, US), Yohai Kaspi (Weizmann, Israel) and Ravit Helled (U. of Zurich, Switzerland).
- **MUSCLES treasure survey collaboration:** it is a survey that aims to observe M stars in the UV. These stars are the focus of many surveys to search for habitable exoplanets and understanding the star is crucial to determine the habitability of those worlds. So far we got Hubble time to observe 6 M stars in the UV. I am a member of the successful proposal, helping with the theoretical justification to highlight the relevance of understanding M stars in the UV to model exoplanet atmospheres (France et al., 2016; Youngblood et al., 2016; Youngblood et al., 2017). The members are mostly based in the US. The PI is Kevin France (U. Boulder, Colorado, US). (HST program 13650)
- **Mega-MUSCLES treasure survey collaboration:** it is an expansion of the MUSCLES project to: a) new M dwarf exoplanet hosts with varying properties; b) reference M dwarfs below 0.3 solar masses that may be used as proxies for M dwarf planet hosts discovered after HST's lifetime; and c) more rapidly rotating stars of GJ1132's mass to probe XUV evolution over gigayear timescales. We got Hubble time, the observations will be made during 2018. The members are mostly based in the US. PI: Cynthia Suzanne Froning (University of Texas at Austin, US). (HST program 15071)
- **ARIEL consortium:** I am part of the ARIEL science team. ARIEL is a candidate for the ESA M4 mission whose objective is to observe exoplanet atmospheres from Jupiter-size down to Earth-size exoplanets in the visible and the infrared. If selected, it will be a dedicated telescope to observe exoplanet atmospheres. I am part of the planet formation and chemistry in exoplanet atmospheres working groups. Where we study the possibilities to understand different formation scenarios and the physics and chemistry that we will be able to discover with ARIEL capabilities. This consortium has members of all over Europe. PI of the mission: Giovanna Tinetti (University College, London, UK)

## Grants

### Co-applicant

- 2016 Projects of Scientific and Technological Investigation (PICT). Given by the National Agency of scientific and technology promotion, Argentina. PI: Marcelo Miller (UNLP)
- 2009 Project of Investigation (PIP) . Given by the National Scientific and Technical Research Council (CONICET), Argentina. PI: Juan Carlos Forte (UNLP)
- 2009 Project of Investigation La Plata National University. PI: Rosa Orellana (UNLP)
- 2007 Project of Investigation (PIP) . Given by the National Scientific and Technical Research Council (CONICET), Argentina. PI: Adrian Brunini (UNLP)

### Selected Invited Colloquia and Seminars (last 5 years)

- 2017 University of Aarhus, Denmark
- 2017 University of Leiden, The Netherlands
- 2017 University of Oxford, UK
- 2017 University of Bern, Switzerland
- 2017 University of Zurich, Switzerland
- 2017 Observatoire de la Cote d'Azur, France
- 2017 National University of Asuncion, Paraguay
- 2016 University of California Santa Cruz, US
- 2016 St. Andrews University, UK
- 2016 Harvard University, Department of Earth and Planetary Sciences, US
- 2016 Harvard-Smithsonian Center for Astrophysics, US
- 2016 National University of La Plata, Argentina
- 2015 Cornell University, US
- 2015 Osservatorio di Arcetri, Italy
- 2014 American Museum of National History, US
- 2013 Harvard Smithsonian Center for Astrophysics, US
- 2013 Tokyo Institute for Technology, Japan
- 2012 Tokyo Institute for Technology, Japan
- 2012 Max Planck Institute for Astronomy, Germany

## Invited Speaker at International Conferences (last 5 years)

- 2017 Exoplanets and Planet Formation, Shanghai, China
- 2017 Nordita PTA program, Stockholm, Sweden
- 2017 The atmospheres of disks and planets, Ringberg Castle, Bavaria, Germany
- 2016 5th Joint Workshop on High Pressure, Planetary and Plasma Physics (HP4), Hamburg, Germany
- 2015 11th Recontres du Vietnam: Exoplanetary Science. Quy Nhon, Vietnam
- 2015 Workshop for the opening of the Carl Sagan Institute at Cornell University - US
- 2014 VII Thermodynamics, Disequilibrium and Evolution (TDE) Focus Group workshop, Tokyo, Japan
- 2014 Japanese-German Frontiers of Science Symposium - Bremen, Germany
- 2013 Joint Workshop on High Pressure, Planetary, and Plasma Physics DLR - Germany
- 2012 Annual Meeting of the Astronomische Gesellschaft - Hamburg, Germany
- 2012 NASA Working Group: "Thermodynamics, Disequilibrium and Evolution" - Spain

## Teaching

2013

**Guest-Lecturer** at the Heidelberg University, 1 class at Kaltenegger's course "Astrophysics & Astrobiology II". Course for Master and graduate level.

2007 - 2011

**Teaching assistant** at the UNLP in "Spherical Astronomy". Mandatory course for undergraduate level.

2008 - 2010

**Lecturer** at the UNLP in "Knowing the Universe". Course for general public. Scope: Introductory course to Astrophysics for professionals with no previous studies in astronomy.

2008 - 2010

**Teaching assistant** at the UNLP in "Calculus I". Mandatory course for undergraduate level.

2005 - 2007

**Teaching assistant** at the UNLP in "Modern Physics". Mandatory course for undergraduate level.

2005 - 2007

**Teaching assistant** at the UNLP in "Calculus I". Mandatory course for undergraduate level.

## Mentored and supervised students

2014

MPIA PhD student Taisiya Kopytova. I co-advise her in a project involving the modelling of thermal structure, photochemistry and spectra of direct imaging exoplanets.

2015 - 2017

Ernesto Ágreda Bastidas, a master physics student at the National University of Colombia, Bogota, Colombia. Mentor him in the improvement of my code to form planetary systems that he used to study the formation of giant planets in his master thesis.

2010 - 2012

Jessica Giovanna Caceres Reategui, a master physics student at the National University of St Augustin of Arequipa, Peru. Mentor her in her master project topic: formation of giant planets.

## Outreach and Gender Equality Activities

2014 - 2015

**Role Model** in the "Science is a girl thing!", part of the "Women in Research and Innovation" campaign which aims to encourage girls to develop an interest in science and to encourage young women in scientific careers.

2005 - 2011

**Educator, Science Coach** in "Mundo Nuevo", a program of science and technology dedicated to outreach. It is part of the UNESCO initiative, the UNLP, and the direction of culture and education of Buenos Aires. My job consisted in giving lectures and perform lab experiments about different astronomical and physical phenomena at kindergartens, elementary and high schools, including seminars for teachers.

2008 - 2010

**Coordinator and chair of weekly seminars.** Handled 100% of the organisation of weekly seminars for general public given at the Department of Astronomy and Geophysical Sciences - UNLP. From searching scientific speakers for the seminar to organise and chair the event.

2009

**Participant in the International Astronomy Year** initiated by the IAU and UNESCO. I participated actively and organised activities for the International Astronomical Year in Argentina. The special projects that I participated are *400 Years of the Telescope*, *100 hours with Astronomy*, *She is an astronomer* and *Astronomical coffee*.

2008

**Lecturer in Astronomy course.** Teaching in the Astronomy Course (8 x 1.5hr classes) for the staff at the Malargue Planetary, Mendoza - Argentina. The topics were: stellar and planetary system formation and evolution, general characteristics of our Solar System, characteristics of extrasolar planets and detection methods.



## Outreach and gender equality activities - (continue)

2001 - 2007

**Museum Guide** at the Museum of Astronomy and Geophysics of La Plata. Outreach activities for general public at the observatory and museum, three times a week, including guided tours and workshops for schools (all levels) and University students.

## Selected Invited Public Colloquia (more than 50 given in total)

- 2017 "Astronomy on Tap" - Aarhus, Denmark
- 2017 Planetarium - La Plata, Argentina
- 2017 Meeting of members of the "Club de Astronomia", Villa Mercedes, San Luis, Argentina
- 2016 JSOCA - journée scientifique in Cannes
- 2016 Planetarium - La Plata, Argentina
- 2013 Meeting of members of the Internationale Amateursternwarte - Frankfurt, Germany
- 2013 Albertus-Magnus-Schule Bischofliches Gymnasium - Germany
- 2009 1st Patagonia Meeting on Astronomy Education Esquel - Argentina
- 2009 Dardo Rocha, cultural center La Plata - Argentina
- 2009 37th Science and Technology National Festival San Bernardo - Argentina
- 2009 35th Buenos Aires International Book Festival Buenos Aires - Argentina
- 2009 School of Astronomy and Geophysical Sciences La Plata - Argentina
- 2009 School of Astronomy and Geophysical Sciences La Plata - Argentina

## Media

### Newspapers & Magazines

- 2017 Press article of our paper Miguel et al. 2016 on the popular science news website - [sci-news.com](http://sci-news.com). [Link](#)
- 2017 Interview for the popular science website "Ciencia del Sur" - [cienciadelsur.com](http://cienciadelsur.com). [Link](#)
- 2017 Interview for "Hoy" Argentinian newspaper. [Link](#)
- 2017 Press release of the CONACYT, Paraguay. [Link](#)
- 2017 Interview for "La Nación", national newspaper from Paraguay. [Link](#)
- 2017 Interview for "Cosmopolitan" Magazine.
- 2017 Interview for "Clarín" Argentinian National newspaper.
- 2016 Interview for "Sputnik" an international science magazine. [Link](#)

## Media - Newspapers & Magazines (continue)

- 2016 Interview for "Perfil" Argentinian national newspaper. [Link](#)
- 2016 Interview for "La Nacion" Argentinian national newspaper. [Link](#)
- 2016 Interview for "Hoy" Argentinian newspaper about the Juno mission. [Link](#)
- 2016 Interview for "Punto Noticias" Argentinian newspaper. [Link](#)
- 2009 Interview for "Billiken" magazine "Astronomy as a career".
- 2009 Interview for the Newsletter: "Boletin de Noticias del Observatorio Astronomico de La Plata".
- 2008 Interview for "Parateens" magazine "Working with stars, planets and galaxies".

## Radio

- 2017 Interview for "Todo por la tarde" program at "San Rafael" radio in Mendoza, Argentina. [Link](#)
- 2017 Interview for a radio program at "Hoy Radio", Paraguay. [Link](#)
- 2017 Interview for a radio program at "Radio Cantilo", Argentina.
- 2016 Interview for a radio program at "Radio La Colmena", Argentina. [Link](#)
- 2016 Interview for a radio program at "Radio 10", Argentina. [Link](#)
- 2016 Interview for a radio program at "Radio Nacional", Argentina, about the Juno mission.
- 2016 Interview for a radio program at "San Rafael" radio in Mendoza, Argentina.
- 2016 Interview for a radio program at "Universidad Nacional de Tierra del Fuego", in Argentina.

## Tv

- 2017 Interview for the program "Ciudadanos Ilustres" on Somos La Plata
- 2009 Participation in the Show "Zapping Zone" on Disney Channel Latinamerica.

## University Services

- 2008 - 2011 Member of the committee for the change in the Astronomy baccalaureate degree program at the UNLP.
- 2009 - 2011 Academic Committee - Representing Graduate Students at the Department of Astronomical and Geophysical Sciences, UNLP.
- 2009 - 2011 Member of the Outreach Committee at the Astronomy and Geophysics department of the UNLP.

## Conference Organizer: Scientific Organising Committee

- 2015 Planetary Systems: A Synergistic View - Quy Nhon - Vietnam
- 2014 Planetology beyond the Solar System - Ringberg
- 2013 Planet and Star Formation retreat - MPIA

## Conference Organizer: Local Organizer Committee

- 2015 Exoplanetary Atmospheres and Habitability - OCA - France
- 2012 Characterising and Modelling Extrasolar Planetary Atmospheres - MPIA
- 2010 V Workshop of Planetary Science - UNLP

## Refereeing

Astronomy & Astrophysics

Astrophysical Journal

Monthly Notices of the Royal Astronomical Society

Origin of Life and Evolution of Biospheres