

Luciano Combi

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Academic Formation

2011-2016 **Ms.S. in Physics**, *Department of physics*, Faculty of Exact Sciences, *Universidad Nacional de La Plata* (UNLP).

Average mark: 9.60/10

Degree thesis: *Equivalence between General Relativity and Teleparallel Gravity*.

Mark: 10/10. Supervisor: Gustavo E. Romero.

2017-Present **Ph.D. in Physics**, *Department of physics*, Faculty of Exact Sciences, UNLP.

Thesis: *Local effects of the cosmological expansion*.

Supervisor: Gustavo E. Romero.

Current position

2017-Present **Doctoral Fellow**, *CONICET*.

Supervisor: Gustavo E. Romero.

Research field: gravitation, General Relativity, cosmology, black holes, local physics and cosmology, astrophysics, foundations of physics, scientific philosophy.

Place: Instituto Argentino de Radioastronomía, Bs.As., Argentina

Ph.D. Courses

2017 **Elements of Quantum Field Theory I.**

Department of Physics, Faculty of Exact Sciences, UNLP

Professor: Horacio Falomir

Duration: 1 semester

Fellowships

2017 **Ph.D. Research Fellow**, *CONICET*, (National Research Council).

Supervisor: Gustavo E. Romero.

Place: Instituto Argentino de Radioastronomía, Bs.As., Argentina.

Teaching Experience

2015 **Undergraduate Teaching Assistant** of Calculus II, Department of Mathematics, Faculty of Exact Sciences, UNLP. **Period:** 1th semester

- 2015 - 2017 **Undergraduate Teaching Assistant**, Department of Physics, Faculty of Exact Sciences, UNLP. **Courses:** Linear Algebra, General Physics I, General Physics II
- 2015 - 2017 **Undergraduate Teaching Assistant** Faculty of Engineering, UNLP. **Course:** Physics I (Laboratory duties)
- 2017- Present **Graduate Teaching Assistant** Department of Physics, Faculty of Exact Sciences, UNLP. **Courses:** Gravitation, General Physics III, Methods in Mathematical Physics

Workshops and Schools

- 2016 *Journeys in theoretical physics*, (ICTP-Perimeter Institute). **Place:** Sao Paulo, Brasil. **Duration:** 1 week (40 hs).
- 2016 *$f(R)$ theories of gravity*, (FCGALP, UNLP). **Place:** La Plata, Argentina. **Duration:** 1 week (40 hs).
- 2018 *LAPIS: Cosmology in the era of large surveys*, (FCGALP, UNLP). **Place:** La Plata, Argentina. **Duration:** 1 week (40 hs).
- 2018 *International Pulsar Timing Array, student week*, (NRAO). **Place:** New Mexico, USA. **Duration:** 1 week (40 hs).
- 2018 *First Biennial Midwest Summer School in Philosophy of Physics*, (University of Chicago). **Place:** Chicago, USA. **Duration:** 1 week (40 hs).
- 2018 *The Sound of Space-Time: The dawn of Gravitational Wave Science*, (ICTP-SAIFR). **Place:** Sao Paulo, Brasil. **Duration:** 3 weeks (120 hs).

Research stays abroad

- 2018 *West Virginia University* with NANOGrav Collaboration. **Place:** Morgantown, West Virginia, USA. **Duration:** 4 week.

Scientific meetings

Invited presentation

- 2018 *First Pulsar Observations in Southamerica*
Binational meeting SOCHIAS-AAA, La Serena, Chile. Octubre 16

Contribution presentation

- 2015 *Inconsistency within the Everett interpretation of Quantum Mechanics*
First Latinamerican congress of Scientific Philosophy (In honor to Mario Bunge), Buenos Aires, Argentina. October 2015
- 2017 *PuMA proyect: Pulsar Monitoring in Argentina* (in Spanish)
Encuentro de Estudiantes de Astronomía, Buenos Aires, Argentina. September 2017

Posters

- 2015 *Force between cylindric magnets: Theory and experiment* (in Spanish)
Luciano Combi, Lucas Pili, Pablo Pisani, Fernando Monticelli
100^a Anual Meeting of the Asociación Argentina de Física (AFA), September 2015
- 2017 *Intensive monitoring of pulsars in the south hemisphere* (in Spanish)

Luciano Combi, Jorge Combi, Federico García, Guillermo Gancio, Carlos Lousto
Anual Meeting of the Asociación Argentina de Astronomía (AAA), September 2017

2018 *Orbits in inhomogenous expanding space-times*

Luciano Combi, Eduardo Gutiérrez

LAPIS: Cosmology in the era of large surveys, April, 2018

2018 *The IAR observatory and the PuMA project*

Luciano Combi, Guillermo Gancio, Carlos Lousto

IPTA international meeting, Albuquerque, USA

Outreach

2018 *Friday talks in the Planetarium: Gravitational waves and pulsars*

Planetarium, La Plata, Argentina

2018 **Outreach** department member of Argentine Institute of Radioastronomy

In charge of social media management and guide for primary school and high-school visits to the Institute

Languages

Native **Spanish**

English

French

Memberships

PuMA (*Pulsar Monitoring in Argentina*) collaboration. **Status:** Full member. **Place:** Argentine Institute of Radioastronomy (IAR), La Plata, Argentina

Awards

2017 **Joaquín V. Gonzales award** for distinguished graduate of the National University of La Plata. Given by the City Government of La Plata, Capital of Buenos Aires.

Other activities

Reviewer in scientific journals and institutions:

Astrophysics and Space Science (Springer)

Gravitation and Cosmology (Springer)

Estonia (ETIS)

Publications

Refereed papers in international journals

- 1 **Inconsistency within the Everett interpretation of Quantum Mechanics.**
Luciano Combi, Gustavo E. Romero.
Methateoria (ISSN 1853-2322) **7**, 47-53, 2017
- 2 **Is Teleparallel Gravity really equivalent to General Relativity?.**
Luciano Combi, Gustavo E. Romero.
Annalen der Physik, 1700175, 2017
- 3 **Gravitational Energy and radiation of a charged black hole.**
Luciano Combi, Gustavo E. Romero.
Classical and Quantum Gravity, **34**, 195008, 2017
- 4 **A note on geodesics in inhomogeneous expanding spacetimes.**
D. Perez, G.E. Romero, Luciano Combi, E.M. Gutiérrez.
Classical and Quantum Gravity, **36**, 055002, 2019

Observational experience

Telegrams

- 1 **Follow up of the radio flare from the magnetar XTE J1810-197 at 1.4 GHz.**
Del Palacio, S.; Garcia, F.; Combi, L.; Lopez Armengol, F.; Gancio, G.; Muller, A. L.; Kornecki, P.
The Astronomer's Telegram, **12323**, 2018