



Gastón Javier Escobar

Academic Formation

2009–2017 **Ms.S. in Astronomy**, *Faculty of Astronomical and Geophysical Sciences, La Plata National University*, La Plata.

Degree Thesis: High energy radiation in ultraluminous X-ray sources.

Advisor: Gabriela S. Vila. Co-advisor: Gustavo E. Romero.

2017–Present **PhD in Astronomy**, *Faculty of Astronomical and Geophysical Sciences, La Plata National University*, La Plata.

Thesis: Production and propagation of neutrons in microquasar jets.

Advisor: Leonardo J. Pellizza. Co-advisor: Gustavo E. Romero.

PhD activities

1. Introduction fo Magnetohydrodynamics.

Professor: Dr. Ana María Platzeck.

Faculty of Astronomical and Geophysical Sciences, La Plata National University.

Approved.

2. Seminar of particles and fields.

Professor: Dr. Martín Schvelinger.

Faculty of Exact Sciences, La Plata National University.

Approved.

3. Introduction to black hole astrophysics

Professor: Dr. Gustavo E. Romero.

Faculty of Astronomical and Geophysical Sciences, La Plata National University.

Attended.

4. Introduction to Quantum Field Theory I.

Professor: Dr. Horacio Falomir.

Faculty of Exact Sciences, La Plata National University.

Attended.

5. Introduction to Quantum Field Theory II.

Professor: Dr. Horacio Falomir.

Faculty of Exact Sciences, La Plata National University.

Attended.

6. São Paulo School of Advanced Science on High Energy and Plasma Astrophysics in the CTA Era (SPSAS-HighAstro).

Two-weeks-duration school of high energy and plasma astrophysics.

7. Introduction to Programming, Numerical Analysis and Simulations for Scientists..

Professor: Dr. Manuel Carlevaro.

Institute of Fluid Physics and Biological Systems, La Plata.

Attended.

Other short duration schools attended

1. Massive Stars in the Modern Astronomical Era.

Professor: Dr. Michaël De Becker.

Faculty of astronomical and geophysical sciences, La Plata national university.

Duration: one week.

2. Numerical simulations in relativistic outflows.

Professor: Dr. Manel Perucho.

Faculty of astronomical and geophysical sciences, La Plata national university.

Duration: one week.

3. Data analysis of gamma-ray sources with *Fermi*.

Professor: Dr. Pedro Luque-Escamilla.

Faculty of astronomical and geophysical sciences, La Plata national university.

Duration: Three days

Fellowships

2017–2022 **PhD CONICET Research Fellow (National Research Council)**, *Topic: Production and propagation of neutrons in microquasar jets*, Advisor: Dr. Leonardo J. Pellizza.

Teaching Experience

Graduate Experience

06/2017– Present **Graduate Teaching Assistant of Electromagnetism**, *Faculty of Astronomical and Geophysical Sciences, UNLP, La Plata.*

10/2017– Present **Graduate Teaching Assistant of Mathematics B**, *Faculty of Engineering, UNLP, La Plata.*

Undergraduate Experience

2016,2017 **Teaching Assistant of the Summer Entrance Course**, *Faculty of Astronomical and Geophysical Sciences, UNLP, La Plata.*

03/2015– 03/2018 **Teaching Assistant of Special Mathematics I (Complex Variable)**, *Faculty of Exact Sciences, UNLP, La Plata.*

08/2015– 06/2017 **Teaching Assistant of Mathematical Analysis I**, *Faculty of Exact Sciences, UNLP, La Plata.*

04/2016– 08/2016 **Teaching Assistant of Modern Physics**, *Faculty of Astronomical and Geophysical Sciences, UNLP, La Plata.*

- 03/2014–08/2015 **Teaching Assistant of Mathematics C**, *Faculty of Engineering, UNLP, La Plata.*
- 04/2013–02/2015 **Teaching Assistant of Mathematics B**, *Faculty of Engineering, UNLP, La Plata.*
- 06/2010–03/2011 **Collaborator as Teaching Assistant of Mathematical Analysis I**, *Faculty of Exact Sciences, UNLP, La Plata.*

Participation in Scientific Meetings

Talks

- 2018 **Production and propagation of neutrons in microquasar jets**, *Second Binational Meeting between the Argentine Association of Astronomy (AAA) and The Chilean Society of Astronomy (SOCHIAS)*, La Serena, Chile.
- 2017 **Radiación de altas energías en fuentes ultraluminosas de rayos X**, *Anual meeting of the Argentine Association of Astronomy (AAA)*, Mendoza, Argentina.

Posters

- 2018 **Producción y propagación de neutrones en jets de microcuásares**, *Anual meeting of the Argentine Association of Physics*, Buenos Aires, Argentina.
- 2017 **High energy radiation in ultraluminous X-ray sources**, *São Paulo School of Advanced Science on High Energy and Plasma Astrophysics in the CTA Era (SPSAS-HighAstro)*, São Paulo, Brazil.
- 2017 **Producción y propagación de neutrones en jets de microcuásares**, *Anual meeting of the Argentine Association of Astronomy*, Mendoza, Argentina.

Organization

- 2019 **Member of the organizing committee of the 61st Meeting of the Argentine Association of Astronomy**, Río Negro, Argentina.
- 2014 **2^{do} Congreso de Estudiantes de Ciencia y Tecnología Argentina (CONECTAR)**, La Plata.
- 2013 **1^{er} Congreso de Estudiantes de Ciencia y Tecnología Argentina (CONECTAR)**, La Plata.

Attended Meetings

- 2018 **Second Binational Meeting between the Argentine Association of Astronomy (AAA) and The Chilean Society of Astronomy (SOCHIAS)**, Chile.
- 2013–2017 **Anual Meeting of the Argentine Association of Astronomy (AAA)**, Argentina.
- 2013–2016 **Meeting of Science and Technology Students (CONECTAR)**, Argentina, Uruguay.
- 2013, 2015 **Meeting of General Relativity Grav13**, Córdoba, Argentina.
- 2011 **First Binational Meeting between the Argentine Association of Astronomy (AAA) and The Chilean Society of Astronomy (SOCHIAS)**, Argentina.
- 2009–2010 **Anual Meeting of the Argentine Association of Astronomy (AAA)**, Argentina.

Publications

Refereed Articles in National Proceedings

1. **Radiación de altas energías en fuentes ultraluminosas de rayos X.**
Escobar, G.J.; Vila, G.S; Romero, G.E.
BAAA, vol. 60, p.101-103.
2. **Producción y propagación de neutrones en jets de microcuásares.**
Escobar, G.J.; Pellizza, L.J.; Kornecki, P.; Fogantini, F.A. & Reynoso, M.M.
BAAA, vol. 60, p.95-97.
3. **Galaxias con formación estelar activa como emisores de radiación gamma.**
Kornecki, P.; Pellizza, L.J.; Albacete Colombo, J.F.; Escobar, G.J.; Fogantini, F.A.
BAAA, vol. 60, p.89-91.

Institutional Participation

- 12/2018 – present Member of the Board of Directors of the Argentine Institute of Radioastronomy.
- 2018 Graduate member of the Advisory Committee for selecting a student teaching assistant for Special Mathematics I (Complex Variable), Faculty of Astronomical and Geophysical Sciences of La Plata.
- 2018 Graduate member of the Advisory Committee for selecting a student teaching assistant for Mathematical Analysis II (Vector Calculus), Faculty of Astronomical and Geophysical Sciences of La Plata.
- 2014–2016 Student member of the Board of Directors of the Faculty of Astronomical and Geophysical Sciences of La Plata.
- 2014–2016 Student member of the Degree Academics & Teaching Commission of the Faculty of Astronomical and Geophysical Sciences of La Plata.
- 2013 Student member of the Advisory Committee for selecting a graduate teaching assistant for Computation, Faculty of Astronomical and Geophysical Sciences of La Plata.
- 2013 Student member of the Advisory Committee for selecting the graduate teaching assistant for Partial Differential Equations, Faculty of Astronomical and Geophysical Sciences of La Plata.

Programming languages

C
Python
FORTRAN

Languages

Spanish Native
English Intermediate-High