

Javier Alejandro Acevedo Barroso

Doctoral assistant

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Education

- 2021-2025 DOCTOR IN PHYSICS¹
Laboratory of Astrophysics, École polytechnique fédérale de Lausanne (EPFL).
Searching for gravitational lenses at the dawn of the new generation of wide-field surveys.
Advisor: Dr. Frédéric Courbin.
- 2019-2021 MASTER IN SCIENCES-PHYSICS
Departamento de Física, Universidad de los Andes, Bogotá.
Searching for extragalactic variable stars using Machine Learning algorithms.
Advisor: Dr. Alejandro García.
- 2015-2019 UNDERGRADUATE PHYSICS STUDIES
Departamento de Física, Universidad de los Andes, Bogotá.
Simulating a collisional dark matter fluid using a Lattice-Boltzmann method.
Advisor: Dr. Jaime Forero.

Selected publications

- 2024 Euclid: The Early Release Observations Lens Search Experiment [2024arXiv240806217A](#)
Acevedo Barroso, J. A., O’Riordan, C. M., Clément, B., et al.
- 2024 Strong lensing by edge-on galaxies in UNIONS [2024IAUS..381...17A](#)
Acevedo Barroso, J. A., Clément, B., Courbin, F., et al.
- 2024 Euclid. I. Overview of the Euclid mission [2024arXiv240513491E](#)
Euclid Collaboration: Mellier, Y., Abdurro’uf, **Acevedo Barroso, J. A.**, et al.
- 2024 Euclid: Searches for strong gravitational lenses using convolutional neural nets in Early Release Observations of the Perseus field [2024arXiv241116808P](#)
Pearce-Casey, R., [...] , **Acevedo Barroso, J. A.**, et al.
- 2023 The impact of human expert visual inspection on the discovery of strong gravitational lenses [2023MNRAS.523.4413R](#)
Rojas, K., [...] , **Acevedo Barroso, J. A.**, et al.

Participation in events

- 2024 COCOA 2024 Bucaramanga: VIII Colombian Congress of Astronomy and Astrophysics
Talk: Galaxy-scale lensing in Euclid
- 2024 Third Julio Garavito Meeting
Talk: Searching for lensing by edge-on galaxies in UNIONS
- 2024 Euclid Consortium Meeting 2024
Talk: The ERO Lens Search Experiment
- 2023 IAU Symposia 381: Strong gravitational lensing in the era of Big Data
Talk: Searching for lensing by edge-on galaxies in UNIONS
- 2022 Lensing Odyssey 2022
Talk: Automated lens finding: results and prospects
- 2019 COCOA 2019 Medellín: VI Colombian Congress of Astronomy and Astrophysics
Talk: Simulating Collisional Dark Matter (Simulando materia oscura colisional).

¹Defence scheduled for July, 2025

Awards and scholarships

2019	Recognition for Best Scores. “Prueba Saber Pro 2018”, awarded by the Colombian Ministry of National Education
2019	Teaching assistant with full scholarship for master studies in physics, awarded by Universidad de los Andes, Bogotá
2014	Full scholarship for undergraduate studies, “Bachilleres por Colombia, Programa Mario Galán Gómez”, awarded by Ecopetrol
2013	Best student of the Department of Santander. Prueba Saber 11 2013, awarded by the Colombian Ministry of National Education

Teaching and Technical Experience

2022-2024	Service observations for 1.2 m Swiss National Telescope Leonard Euler: 20 nights
2023	Observations on the 3.58 m New Technology Telescope in la Silla: 3 nights
2023	Observations on the 2.56 m Nordic Optical Telescope in la Palma: 2 nights
2022-2024	Teaching assistant. Practical Works IV. École polytechnique fédérale de Lausanne (EPFL)
2022-2023	Teaching assistant. Astrophysics 101. École polytechnique fédérale de Lausanne (EPFL)
2019-2021	Teaching assistant. Experimental Physics I and II. Universidad de los Andes, Bogotá