Jaime E. FORERO-ROMERO

Personal Information

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PERSONAL WEBSITE:	http://wwwprof.uniandes.edu.co/~je.forero
GROUP WEBSITE:	http://astroandes.github.io/
CITIZENSHIP:	Colombian
BIRTH DATE:	October 14, 1981

Research Interests

- Cosmology

- Galaxy Formation

- Computational Astrophysics

Education

NOVEMBER 2007	**PhD. Physics**
AUGUST 2005	at the École Normale Supérieure de Lyon (France)
JULY 2005	**M.Sc.Physics (Magistère Interuniversitaire)**
AUGUST 2003	at the École Normale Supérieure (Paris, France)
JULY 2003	**Undergraduate Physics studies** (3rd & 4th year)
AUGUST 2001	at the Instituto Balseiro (Argentina)
JULY 2001	**Undergraduate Physics studies** (1st & 2nd year)
JULY 1999	at the U. Nacional de Colombia

Academic Positions

PRESENT DAY	**Associate Professor**
AUGUST 2015	Physics Department, Universidad de los Andes (Colombia)
JULY 2015	**Assistant Professor**
AUGUST 2012	Physics Department, Universidad de los Andes (Colombia)
JULY 2012	**Gruber Fellow**
OCTOBER 2011	Astronomy Department UC Berkeley (USA)
SEPTEMBER 2011	**Postdoctoral Researcher**
SEPTEMBER 2007	Leibniz Insititute for Astrophysics at Potsdam (Germany)
AUGUST 2007	**Graduate Student**
AUGUST 2006	École Normale Supérieure de Lyon (France)
JULY 2006	**Élève**
SEPTEMBER 2003	École Normale Supérieure (Paris, France)
AUGUST 2003	**Undergraduate Fellow**
AUGUST 2001	Instituto Balseiro (Bariloche, Argentina)

Research

Bibliometrics

- Refereed journal articles: 44 articles (11.2, normalized count) since first paper in 2007.

- Google Scholar statistics. Total Number of Citations: 1695. H-index: 17.

- SAO/NASA Astrophysics Data System statistics. Total Number of Citations: 1101. H-index: 15.

Selected Publications

- *Classifying image sequences of astronomical transients with deep neural networks*, C. Gómez, M. Neira, M. Hernández Hoyos, P. Arbeláez, **J. E. Forero-Romero**, MNRAS, 499, 3, 2020.

- *Dark matter halo shapes in the Auriga simulations*, J. Prada, **J. E. Forero-Romero**, R. J. J. Grand, R. Pakmor, V. Springel, MNRAS, 490, 4877, 2019.

- *The Local Group in the cosmic web*, **J.E. Forero-Romero**, R. González, ApJ, 799, 1, 2015.

- *Cosmic web alignments with the shape, angular momentum and peculiar velocities of dark matter halos*, **J.E. Forero-Romero**, S. Contreras, N. Padilla, MNRAS, 443, 1090, 2014.

- *A Dynamical Classification of the Cosmic Web.* **J. E. Forero-Romero** , Y. Hoffman, S. Gottloeber, A. Klypin, G. Yepes, MNRAS, 396, 1815-1824, 2009

Grants

- 2017-2021 (coPI) LACEGAL Latin American Chinese European GALaxy Formation network. Funded by MSCA-RISE - Marie Sklodowska-Curie Research and Innovation Staff Exchange (RISE). (1.5 MEuro)

- 2016-2019 (PI) COLCIENCIAS grant to work on the Dark Energy Spectroscopic Instrument. (60 kUSD)

- 2012-2016 (PI) UNIANDES grant given as a startup package to assistant professors (25 kUSD).

- 2011-2012 (PI) IAU Peter and Patricia Gruber Foundation Fellowship. (50 kUSD).

Mentoring

Postdocs

- 2019-. David Sierra. Building the Bright Galaxy Sample catalog with data from the Dark Energy Spectroscopic Instrument.

- 2015-2016. Verónica Arias. Dynamics of satellites in the Local Group.

Graduate Students

- 2019- John Suarez. PhD thesis on cosmic web reconstruction.

- 2018- Yeimy Camargo. PhD thesis on galaxy assembly bias.

- 2019 Felipe Gómez. Master thesis in Physics. *A large scale structure void finder based on the β-skeleton graph.*

- 2016-2018 Jesús Prada. Master thesis in Physics. *Constraining the dark matter halo shape of the Milky Way with numerical simulations.*
- 2013-2015 Juan Nicolás Garavito Camargo. Master thesis in Physics. *The effect of gas bulk rotation on the Lyman-alpha line.*

SERVICE

SCIENTIFIC COLLABORATIONS

PRESENT DAY JANUARY 2014	Full Member of the Dark Energy Spectroscopic Instrument. http://desi.lbl.gov/
PRESENT DAY JANUARY 2010	Referee for The Astrophysical Journal and Monthly Notices of the Royal Astronomical Society
MAY 2021 MAY 2020	External Reviewer for the Hubble Space Telescope
OCTOBER 2020 OCTOBER 2015	Coordinator for the Andean Regional Office of Astronomy for Development. http://andean.astro4dev.org/

EVENT ORGANIZER

OCTOBER 2015	Main organizer of the Second *Workshop Astronomía en los Andes* to convene astronomers in the Andean region. Held in Bogotá, Colombia.
JUNE 2015	Main organizer for the *Andean School on Cosmology* held in Bogotá, Colombia.
JULY 2013	Main organizer of the First *Workshop Astronomía en los Andes* to convene astronomers in the Andean region. Held in Bogotá, Colombia.
SEPTEMBER 2011	Co-organizer of the international conference *Young and Bright: understanding high redshigt structures.* Held in Potsdam, Germany.

GUEST LECTURER

JULY 2018	Lecturer for the *41st International School for Young Astronomers* held in Socorro, Colombia.
DECEMBER 2015	Lecturer for the *Second Guatemalan School of Astrophysics* held in Antigua, Guatemala.
JUNE 2013	Lecturer for the *Pan-American Advanced Studies Institutes (PASI)* on Methods in Computation-Based Discovery. Held in Guatemala City, Guatemala.
JULY 2009	Lecturer for the *Fifth Colombian School of Astronomy* held in Bogotá, Colombia.