

---

# Jaime E. FORERO-ROMERO

## PERSONAL INFORMATION

---

EMAIL: [je.forero@uniandes.edu.co](mailto:je.forero@uniandes.edu.co)  
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 (3<sup>rd</sup> & 4<sup>th</sup> year)**  
AUGUST 2001 at the Instituto Balseiro (Argentina)  
  
JULY 2001 **Undergraduate Physics studies (1<sup>st</sup> & 2<sup>nd</sup> 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: 37 articles since first paper in 2007.
- Google Scholar statistics. Total Number of Citations: 1136. H-index: 16.
- SAO/NASA Astrophysics Data System statistics. Total Number of Citations: 876. H-index: 15.

### SELECTED PUBLICATIONS

---

- *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.
- *Effects of Star Formation Stochasticity on the Ly alpha & Lyman Continuum Emission from Dwarf Galaxies*, **J. E. Forero-Romero** & M. Dijkstra, MNRAS 428, 2163, 2013
- *A Dynamical Classification of the Cosmic Web*. **Forero-Romero** J.E., Hoffman Y., Gottloeber S., Klypin A., Yepes G., MNRAS, 396, 1815-1824, 2009

### GRANTS

---

- 2017-2021 (coPI) LACEGAL Latin American Chinese European GALaxy Formation network. Funded by MSCA-RISE - Marie Skłodowska-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

---

- 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.
- 2018- Diego Barbosa. PhD thesis on Compressive Sensing applications to cosmology.
- 2016-2018 Jesús Prada. Master thesis in Physics at Universidad de los Andes. *Constraining the dark matter halo shape of the Milky Way with numerical simulations.*

- 
- 2013-2015 Juan Nicolás Garavito Camargo. Master thesis in Physics at Universidad de los Andes. *The effect of gas bulk rotation on the Lyman-alpha line.*

## SERVICE

---

### SCIENTIFIC COLLABORATIONS

---

PRESENT DAY    Coordinator for the Andean Regional Office of Astronomy for Development.  
OCTOBER 2015    <http://andean.astro4dev.org/>

PRESENT DAY    Full Member of the Dark Energy Spectroscopic Instrument.  
JANUARY 2014    <http://desi.lbl.gov/>

PRESENT DAY    Referee for The Astrophysical Journal and  
JANUARY 2010    Monthly Notices for the Royal Astronomical Society

### 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 redshift 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.