

Sebastián Bustamante Jaramillo

Curriculum Vitae

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GENERAL INFORMATION

Name Sebastián Bustamante Jaramillo.
Date of Birth 20th June, 1990.
Place of Birth Maceo - Antioquia.
Nationality Colombian.
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Education

2007-2012 **B.Sc. in Physics**, *Institute of Physics, Universidad de Antioquia*, Medellín, Colombia.

Thesis "The place of the Milky Way and Andromeda in the cosmic web".

Description This study assesses the representation of vertical integral of moisture flux divergence field (MFD) from ERA Interim reanalysis over northern South America, focused on Colombian. Temporal and spatial variability MFD field are explored in connection with other hydrological variables and global climate phenomena of regional impact, the MFD variability were evaluated through an EOF analysis whose main components are associated in order with: the North Tropical Atlantic and the El Niño Southern Oscillation.

Fields of Interest

Tropical Meteorology, moisture processes, circulation patterns.

Occupational and academic Experience

2013-Present Teacher, Geostrophic fluid dynamics, Oceanography, Universidad de Antioquia.

2013-Present Teacher, Introductory physics, Faculty of Engineering, Universidad de Antioquia.

2012 Teacher, Introductory physics for highschool Students, Universidad de Antioquia.

2009 Museum guide of Galileo interactive physics room, Museo Universitario de la Universidad de Antioquia.

Research and Professional Activities

- 2012-2013 **Moisture flux over Colombia in the period 1979-2009 using data from the ERA-Interim re-analysis**, Main researcher, Committee for Research Development (CODI), Universidad de Antioquia, Universidad Nacional de Colombia, sede Bogotá.
- 2010-2011 **Analysis of extreme climate events and Circulation patterns over Colombia using the regional climate model REMO**, Training student, Universidad de Antioquia.

Conferences, schools and workshops attended

- 2012 **Regional WCRP/SPARC Workshop with focus on the Southern Hemisphere and South America.**, Universidad de Buenos Aires, November 26-27, Buenos Aires, Argentina.
- Poster: Moisture Flux across Northern of South America using ERA Interim data.
- 2012 **XI Meeting of teaching in science and mathematics.**, Universidad de Antioquia, Universidad EAFIT, April 19-20, Medellín, Colombia.
- 2011 **XI Colombian Congress of Meteorology.**, Universidad Nacional de Colombia, sede Bogotá, March 23-25, Bogotá, Colombia.
- 2008 **I Colombian Congress of Astronomy and Astrophysics.**, Universidad de Antioquia, Universidad EAFIT, August 19-20, Medellín, Colombia.

Miscellaneous

- Computer Skills C, Linux, Mathematica, CDO, GrADS .
- Languages Spanish (native), English.

References

- **Boris Anghelo Rodríguez Rey** (*Advisor*)
Professor and Researcher, Foundations and Teaching Group of Physics and Dynamical Systems, Atomic and Molecular Physics Group.
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- **Isabel Cristina Hoyos Rincón** (*Advisor*)
Researcher, Foundations and Teaching Group of Physics and Dynamical Systems.
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