

# JUAN NICOLÁS GARAVITO CAMARGO

## CURRICULUM VITAE

### CONTACT INFORMATION:

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Universidad de los Andes  
AA 4976, Bogotá, Colombia.

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<http://github.com/jngaravitoc>

### PERSONAL DETAILS:

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**Nationality:** Colombian-Venezuelan.

**Date of Birth:** 02/October/1988, Age 26.

**Marital Status:** Single.

**Languages:** Spanish (Native), English (Fluent).

### EDUCATION:

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M.Sc., Physics: Universidad de los Andes (Colombia). 8/2013-present  
(Advisor: Dr. Jaime E. Forero-Romero)

B.Sc., Physics: Universidad Nacional de Colombia. 2/2013  
(Advisor: Dr. Rigoberto A. Casas Miranda)

### RESEARCH INTERESTS:

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Galaxy Formation, The Local Universe, High Redshift Galaxies, Reionization, N-body/SPH Simulations, Data Mining and Visualization.

### COMPUTATIONAL SKILLS:

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Programming Languages: Python, C, C++.

Software Packages: IRAF, ds9, Mathematica, L<sup>A</sup>T<sub>E</sub>X.

Operating Systems: Unix, Linux, Windows.

Visualization Software: TOPCAT, GLUE, Sphviewer.

### AWARDS:

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2014 - SpaceArt scholarship Bogotá Planetarium: For developing art and science material for children.

2013 - Best Project at GAIA summer school held at Mexico City.

2010 - 1<sup>st</sup> Place Maloka (interactive Science Museum) contest to design a didactical physics experiment.

### CONGRESSES & MEETINGS:

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[6] Satellite galaxies and dwarfs in the local group. Leibniz Institute for Astrophysics,

Potsdam, Germany.	08/2014
[5] European Week of Astronomy and Space Science EWASS.	07/2014
[4] XIV Latin American Regional IAU Meeting (LARIM), Florianopolis, Brasil. (Poster Contribution: 'Effects of the gas bulk Rotation on the morphology of the Ly $\alpha$ line')	11/2013
[3] Fifth Venezuelan Astronomy Reunion (RVA), Merida, Venezuela. (Talk Contribution: 'Effect of the rotation of distant galaxies on the Lyman-alpha emission line'.)	12/2012
[2] Colombian Congress in Astronomy (COCOA), Bucaramanga, Colombia. (Poster Contribution: Study Of The Dynamical Friction Time-Scale Using N-body Simulations.)	11/2012
[1] XVII National Physics Congress, Santa Marta, Colombia.	/2009

## SCHOOLS & WORKSHOPS:

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[12] CLUES meeting, Potsdam, Germany.	08/2014
[11] GAIA Visualization workshop, Viena, Austria.	07/2014
[10] Vatican Observatory Summer School (VOSS). "Galaxies Near and Far, Young and Old".	06/2014
[9] Galactic Dynamics in the Times of GAIA and other Great Surveys. Mexico City, UNAM CU.	11/2013
[8] NEBULATOM, "A Capacity Development Workshop for Latin American Astronomers on Emission Line Objects in the Universe". Choroní, Venezuela.	03/2013
[7] III Venezuelan Astronomy School (EVA). Merida, Venezuela.	12/2012
[6] Hippac Summer School on Astrocomputing. University of California San Diego.	07/2012
[5] Data reduction in Cosmology School. National Astronomical Observatory of Colombia.	12/2011
[4] XVI Ciclo de cursos especiais em Astronomia. National Observatory of Rio de Janeiro, Brasil.	10/2011
[3] 1 <sup>st</sup> Workshop on Statistical Physics. National University of Colombia, Andes University, Bogotá, Colombia.	08/2011
[2] School of Numerical Relativity. National Astronomical Observatory of Colombia.	/2011
[1] Extragalactic Astrophysics School. National Astronomical Observatory of Colombia.	/2010

## TALKS:

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[4] "The effect of gas bulk rotation on the Lyman Alpha line profile", EWASS, Geneve, Switzerland, July-2014.
[3] "The most distant galaxies in the Universe", Universidad Nacional de Colombia, 2014.
[2] "GAIAs View on the metallicities of the Milky Way", UNAM, Mexico City, Mexico, Nov-2013.
[1] A Bayesian Method to study galaxy streams in the Milky Way Disk", CIDA, Merida, Venezuela , July-2013.

## PUBLICATIONS:

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[1] **Garavito-Camargo J.N** ,Forero-Romero J.E, Dijkstra M, 2014. "Effects of gas bulk rotation on the morphology of the Lyman-alpha line", Accepted for publication to ApJ.

## TEACHING EXPERIENCE:

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Physics I Laboratory: Universidad de los Andes.	2 <sup>nd</sup> Semester-2013
Computational Tools: Universidad de los Andes.	1 <sup>st</sup> Semester-2014
Computational Methods Laboratory: Universidad de los Andes.	1 <sup>st</sup> Semester-2014
TA, Computational Methods: Universidad de los Andes.	1 <sup>st</sup> Semester-2014
Computational Tools: Universidad de los Andes.	2 <sup>nd</sup> Semester-2014
Computational Methods Laboratory: Universidad de los Andes.	2 <sup>nd</sup> Semester-2014
TA, Computational Methods: Universidad de los Andes.	2 <sup>nd</sup> Semester-2014

## PUBLIC SERVICE:

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Organizer of the student astronomy seminar at the Planetarium of Bogotá (Spacio).