

Nicolás Garavito-Camargo – Curriculum Vitae

Steward Observatory, University of Arizona, 933 North Cherry Av. Tucson, AZ.

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Research Interests

Galaxy Dynamics, Local Group Dynamics, Dwarf Galaxies, Galactic Archeology, Galaxy Formation and evolution, Astrophysical probes of Dark Matter.

Education

Ph.D., Astronomy and Astrophysics, University of Arizona, *Expected May 2021.*

Advisor: Dr. Gurtina Besla

M.Sc., Physics, University de Los Andes, Bogotá, Colombia, 2015.

Advisor: Dr. Jaime E. Forero-Romero

B.Sc., Physics, Universidad Nacional de Colombia, Bogotá, Colombia, 2013.

Advisor: Dr. Rigoberto A. Casas Miranda

Fellowships, Grants, and Awards

University of Arizona College of Science award for excellence in service, 2020.

University of Arizona theory travel grant, 2018.

University of Arizona theory travel grant, 2016.

IAU travel grant, 2016.

McCarthy-Stoeger scholarship, 2015-2017.

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

Best project at the GAIA summer school, UNAM, Mexico City, 2013.

Publications

[ORCID](#) [ADS](#) [arXiv](#)

Refereed: 9 - first author: 2.

1. *Quantifying the Stellar Halo's Response to the LMC's Infall with Spherical Harmonics.*
Cunningham, Emily C; **Garavito-Camargo, Nicolas**, Deason, Alis J; Johnston, Kathryn V. et al. ApJ in press. 2020.
2. *The orbital histories of Magellanic Satellites Using Gaia DR2 proper motions.*
Patel, Ekta; Kallivayalil, Nitya; **Garavito-Camargo, Nicolas** et al. ApJ submitted, 2020.
3. *The highest-speed local dark matter particles come from the Large Magellanic Cloud.*
Besla, Gurtina; Peter, Annika; **Garavito-Camargo, Nicolas**. Submitted to JCAP, 2019.
4. *Hunting for the DM Wake induced by the LMC.*
Garavito-Camargo Nicolas; Besla, Gurtina; Laporte, Chervin F.P; Johnston, Kathryn V; Gómez, Facundo A; Watkins, Laura. ApJ Accepted, 2019.
5. *The influence of Sagittarius and the Large Magellanic Cloud on the stellar disc of the Milky Way Galaxy.*
Laporte, Chervin F. P; Johnston, Kathryn V; Gómez, Facundo A; **Garavito-Camargo, Nicolas**; Besla, Gurtina. MNRAS, 481, 286L, 2018.

6. *The Extremely Luminous Quasar Survey in the Sloan Digital Sky Survey Footprint. II. The North Galactic Cap Sample.*
Schindler, Jan-Torge., Fan, Xiaohui., McGreer Ian D., Yang Jinyi., Wang, Feige., Green, Richard., **Garavito-Camargo, Nicolas** et al., ApJ, 863, 144S, 2018.
7. *Modelling the gas kinematics of an atypical Ly α emitting compact dwarf galaxy.*
Forero-Romero, Jaime E., Gronke, Max., Remolina-Gutierrez, Maria Camila, **Garavito-Camargo, Nicolas**, Dijkstra M. MNRAS, 474, 12F, 2018.
8. *Response of the Milky Way's disc to the Large Magellanic Cloud in a first infall scenario.*
Laporte, C.; Gomez, F; Besla, Gurtina; Kathryn V. Johnston & **Garavito-Camargo, Nicolas**. MNRAS, 473, 1218L, 2018.
9. *The impact of gas bulk rotation on the morphology of the Lyman-alpha line.*
Garavito-Camargo J.N; Forero-Romero J.E; Dijkstra M. ApJ, 795, 120, 2014.

Preprints & others

1. *Mass Spectroscopy of the Milky Way*
Dey, Arjun.et al. (incl. **Garavito-Camargo**) 2019.
2. *The Multidimensional Milky Way*([arXiv:1903.07641](https://arxiv.org/abs/1903.07641))
Sanderson, Robyn E .et al. (incl. **Garavito-Camargo**) 2019.

Talks

12 Total, 7 International.

The Royal Observatory of Edinburgh, UK, Coffee Talk, August 2019 †.
 Durham University, UK, [Small Galaxies Cosmic Questions](#), August, 2019*.
 Keck telescope, Journal Club, June 2019.
 Magellanic Cloud Fest III, University of Arizona, May, 2019.
 MPIA, Heidelberg, [Stellar halos across the cosmos](#), July 2018*.
 JILA Seminar, JILA Institute, University of Colorado, December 2017.
 STScI Galaxies Journal Club. December 2016.
 LARIM, Cartagena, Colombia, October 2016*.
 Magellanic Cloud Fest II, University of Arizona, March 2016.
 EWASS, Geneve, Switzerland, July 2014*.
 UNAM, Mexico City, Mexico, Nov 2013.
 Centro de Investigaciones De Astronomía CIDA, Merida, Venezuela, July 2013.

* Contributed talk in conferences.

†Invited.

Posters

Potsdam, Germany. July 2017.

Professional Experience

Referee for *MNRAS* 2019-present.
 Co-organizer, [Diversity Journal Club](#), Steward Observatory, 2018-present
 Writer for [Astrobitos](#), 2018-present.
 Proposal reviewer for [Colombian Science Clubs](#), 2018.
 Local Organizing Committee of the [Andean Cosmology School](#), Universidad de Los Andes, 2015.

Organizer of the student astronomy seminar at the Planetarium of Bogotá, 2014-2015.

Outreach

Creator, [Spanish Outreach Lecture Series](#), Steward Observatory, 2018-present

Writer for [Astrobitos](#), 2018-present.

Classroom astronomer, NOAO Project [ASTRO](#), 2018-2019.

Discussion leader, NOAO [Teen Astronomy Cafe](#), 2018.

Mentor, Tucson Initiative for Minority Engagement in Science and Technology Program [TIMESTEP](#), 2016-2018.

Planetarium SpaceArt mentor for Children, Bogotá, Colombia, 2013-2014.

Teaching Experience

TA, Astronomy Tutoring for Majors & Minors Program. University of Arizona, Spring 2019.

Computational Physics, Teaching assistant, PHYS305. University of Arizona. Spring 2018.

Computational Tools: Universidad de los Andes, 1st Semester-2015.

Computational Methods Laboratory: Universidad de los Andes, 1st Semester-2015.

Computational Tools: Universidad de los Andes, 2nd Semester-2014.

Computational Methods Laboratory: Universidad de los Andes, 2nd Semester-2014.

TA, Computational Methods: Universidad de los Andes, 2nd Semester-2014.

Computational Tools: Universidad de los Andes, 1st Semester-2014.

Computational Methods Laboratory: Universidad de los Andes, 1st Semester-2014.

TA, Computational Methods: Universidad de los Andes, 1st Semester-2014.

Physics I Laboratory: Universidad de los Andes, 2nd Semester-2013.

Observing Experience

VATT telescope. Mt Graham, Arizona - 4 nights, 2016.

CIDA, Merida, Venezuela - 2 nights, 2013.