

Nicolás Garavito-Camargo

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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 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

Refereed: 8 - first author: 2.

1. *The orbital histories of Magellanic Satellites Using Gaia DR2 proper motions*. Patel, Ekta; Kallivayalil, Nitya; **Garavito-Camargo, Nicolas** et al. ApJ submitted, 2020.
2. *The highest-speed local dark matter particles come from the Large Magellanic Cloud*. Bestla, Gurtina; Peter, Annika; **Garavito-Camargo, Nicolas**. Submitted to JCAP, 2019.
3. *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.
4. *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.
5. *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.
6. *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.

7. *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.
8. *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.

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, Geneva, 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.