

Nicolás Garavito-Camargo – Curriculum Vitae

Barbara Pichardo Future Faculty Fellow | [University of Arizona](#), Tucson, AZ
E-mail: nico.garavito@gmail.com | Website: jngaravitoc.github.io | Github: github.com/jngaravitoc

***Research Interests:** Galactic Dynamics – Astrophysical probes of Dark Matter – Computational Methods – High-Performance Computing – N-body Simulations – Software development*

Appointments

Barbara Pichardo Future Faculty Fellow, University of Arizona, February 2025-August 2025.

NFHP Einstein Fellow, University of Maryland, September 2025 - August 2028.

Education and past positions

Flatiron Research Fellow, Flatiron Institute, October 2021-December 2024.

Ph.D., Astronomy and Astrophysics, [University of Arizona](#), 2021.
Advisor: [Dr. Gurtina Besla](#)

M.Sc., Physics, [Universidad 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](#)

Scholarships and Awards

- NFHP Einstein Fellow, University of Maryland, September 2025-August 2028.
- Barbara Pichardo Future Faculty Fellowship University of Arizona 2025-2027.
- University of Arizona, Theoretical Astrophysics Program, Graduate Student Research Prize 2021.
- University of Arizona College of Science award for Excellence in Service for graduate students, 2020. (*Awarded to one graduate student across the college of science per year.*)
- University of Arizona theory travel grant, 2016, 2018.
- McCarthy-Stoeger Scholarship 2015-2017, Vatican Observatory.

Students supervision

I have had the privilege of advising or co-advising a total of eight students (five Ph.D., three undergraduates) from diverse backgrounds.

- **Richard Brooks** (Graduate Student at University of College London), Spring 2024 - present. I am advising Richard on one research project that was submitted for publication to ApJ (see article 29 in the publications section). We are currently working on a second paper, expected for submission in Fall 2025.
- **Elise Darragh-Ford** (Graduate student at Stanford), Fall 2023-Summer 2024. I advised Elise on a research project that was the final chapter of her Ph.D. thesis, resulting in one paper currently under preparation.
- **Silvio Varela** (Graduate student at Universidad de la Serena), Fall 2022-present. I am currently co-advising Silvio on a research project that will lead to a paper now in preparation

- **Arpit Arora** (Graduate student at University of Pennsylvania); Fall 2021-present. I am currently co-advising (now Dr.) Arpit on two research projects: one paper has been accepted to ApJ (see article 27th in the publications section), and another was submitted in Spring 2025 (see Article 33th in the publication section).
- **Hayden Foote** (Graduate student at University of Arizona), Fall 2021-present I co-advised Hayden on a research project that resulted in a submitted publication (see article 28th in the publications section), and a second paper is currently in preparation.
- **Andrew Eden** (Undergraduate at Florida Institute of Technology), Fall 2022-Fall 2023. I advise Andrew on his undergraduate thesis project which will result in a paper that is currently in preparation. All the code that Andrew develop for his project is publicly available on [Github](#).
- **Ludia Adhikary** (Undergraduate CUNY), supervised through the AstroCOM CUNY/CCA program; NYC Summer 2022-Summer 2023. Ludia presented her work at the CCA symposium and she presented two posters. One at the SACNAS conference in 2022 and one at the winter AAS of 2023.
- **Stephanie Carolina Cely Rodriguez** (Undergraduate at Universidad Nacional de Colombia), I advise undergraduate Stephanie on her undergraduate thesis as part of the RECA summer program in Summer 2022. Stephanie successfully graduated in Summer 2023. A talk contribution from Stephanie was given at the RECA symposium and can be watch [here](#).

Teaching Experience

Principal lecturer of 3 courses for undergraduate level in physics for a total of 180 hours of teaching time. Teaching assistant for 3 courses.

- Guest Lecturer for the graduate Galaxies class, Columbia University, Fall 2022.
- Teaching assistant for the Astronomy Tutoring for Majors & Minors Program. University of Arizona, Spring 2019.
- Teaching assistant for the Computational Physics class PHYS305. University of Arizona. Spring 2018.
- 3 times Lecturer of the [Computational Tools](#) at Universidad de los Andes, spring semester 2014 - spring 2015.
- 3 times Lecturer of the computational Methods Laboratory at Universidad de los Andes, semester spring 2014 - spring 2015.
- Teaching assistant of the [Computational Methods](#) Universidad de los Andes, fall semester 2014.
- Lecturer (for 3 different sessions) of the class Physics I Laboratory at Universidad de los Andes, fall semester 2013.

Academic Service

- Lead coordinator of the EXP collaboration. I coordinate the cosmological simulations working group. I am in charge of 3 graduate students. Other responsibilities include: organizing in person meetings twice a year.
- Science organizing committee of the [Clouds over the Pyrenees](#) conference to be held in Benasque, Spain from September 6-9, 2026.
- Science organizing committee of the XMC workshop in Yellowstone to be held in May 26th-30th 2025, at the University of Montana.
- Local and Science organizing committee of the [Milky Clouds over Manhattan conference](#).
- PhD. thesis committee of Dr.Silvio Varela (University of La Serena, Chile), Nov-2023.
- Referee for: Astrophysical Journal (ApJ), Monthly Notices of the Royal Astronomical Society (MNRAS), Nature, Nature Astronomy, Astronomy and Astrophysics (A&A), and the Galaxies Journal.
- Beyond-BFE collaboration coordinator: I lead the cosmological simulation group, organize in person and online meetings.
- Mentor at the City University of New York CUNY-CCA program for undergraduate students at CUNY working with mentors at the CCA, summer 2022.
- 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.

Diversity, Equity, Inclusion (DEI) and outreach leadership:

DEI Leadership:

I have worked extensively to build supportive communities. I co-created a support network for astronomy students in Colombia, [RECA](#), which has grown to 478 members, making it the largest student association in astronomy in Latin America. In 2020, I established a yearly mentorship program designed to support students in their careers. To date, we have worked with 141 students, each paired with a senior mentor for guidance. Additionally, we have compiled valuable resources, including career panels with guest speakers and online guides for applying to PhD programs. I have also secured funding to run this program through the IAU.

- Co-creator of the 10-week [RECA internship program](#) for astronomy students in Colombia. May-August 2021.
- Co-creator of the [RECA mentorship program](#) for astronomy students in Colombia. 2020-2024. (The mentorship program pairs up students with professional astronomers to provide guidance through the application process to graduate programs)
- Career panelist for CUNY undergraduates in stem “an initiative to enable low-income, talented domestic students to pursue successful careers in promising STEM fields” organized by Professor Viviana Acquaviva. December 3rd 2021.
- Co-organizer, [Diversity Journal Club](#) Steward Observatory, 2018-2021.
- Creator, [Astrocharlas](#), Steward Observatory, 2018-2021. (Spanish outreach series talks in astronomy)
- Writer for [Astrobitos](#), 2018-2021.
- Mentor, Tucson Initiative for Minority Engagement in Science and Technology Program [TIMESTEP](#), 2016-2018.

Outreach

- NYC Prison outreach program at MDC Brooklyn. Lead a 2 sessions in 2024 of 3-hour outreach session with Spanish speaking women and men. Program organizer: Kiyan Tavangar (U. Columbia)
- Astronomy podcast in Spanish [vision cosmica](#). I participated in 20 episodes talking about various topics of astronomy for non-specialist audiences.
- Classroom astronomer, NOAO Project [ASTRO](#), 2018-2019.
- Discussion leader, NOAO [Teen Astronomy Cafe](#), 2018.
- Planetarium SpaceArt mentor for Children, Bogotá, Colombia, 2013-2014.

Open source and HPC experience

- Core developer and active contributor of the python packages: (Core developer) [EXPtools](#), (Core developer) [NBA](#), Cranes. (Contributor) [py-Ananke](#), (Contributor) [gala](#), (Contributor) [halo analysis](#), (Contributor) [gizmo analysis](#).
- Expertise with HPC N-body codes: Gadget-3, 4, EXP (CPU & GPU), AREPO.

Scientific Talks

54 Total: 24 Invited (denoted by †)

Conferences (18)

- [Valencia Workshop on the Small-Scale Structure of the Universe and Self-Interacting Dark Matter](#), Valencia, June 2025.
- [XMC II Clouds over Yellowstone](#), University of Montana, May 2025.
- KITP workshop “Dark Matter Theory, Simulation, and Analysis in the Era of Large Surveys”, UC Santa Barbara, June 2024. †
- The Milky Way is not an island, Sexten, February, 2024.
- Surveying the Milky Way: The Universe at our backyard. Caltech, Pasadena, October, 2023.
- Friends of Friends meeting, Cordoba, Argentina, April, 2023. †
- IAU 379: Dynamical masses of local group galaxies, contributed talk, March, 2023.
- [IAU 377: Early Disk-Galaxy Formation from JWST to the Milky Way](#), contributed talk, February, 2023.
- [Colombian Congress of Astronomy](#), Plenary talk, August, 2022. †
- [Friends of friends meeting](#), Cordoba, Argentina, April, 2022.
- [Division on Dynamics Astronomy](#), Virtual meeting, May 2021.
- [Streams 21](#), Virtual Conference, February 2021.
- [The Local Group: Assembly and Evolution](#), virtual conference, August 2020.
- [European Astronomical Society meeting](#), virtual meeting, June 2020.
- Durham University, UK, [Small Galaxies Cosmic Questions](#), August, 2019.
- MPA, Heidelberg, [Stellar halos across the cosmos](#), July 2018.
- LARIM, Cartagena, Colombia, October 2016.
- EWASS, Geneve, Switzerland, July 2014.

Seminars and Colloquia (36)

- CTC seminar, University of Maryland, April 2025.†
- UC Santa Barbara, seminar, June 2024. †
- KITP UC Santa Barbara, seminar, June 2024. †
- UC Riverside, seminar, October 2023. †
- Universidad de La Serena, La Serena, Chile, May 2023. †
- Instituto de Astronomía y Física del Espacio (IAFE), Buenos Aires, April, 2023.
- Max Planck Institute for Astrophysics, Cosmology Seminar, March, 2023.
- U. Rutgers, Astronomy Seminar, Nov, 2022. †
- U. Columbia, Lunch talk, Sept, 2022. †
- STScI, galaxies lunch talk, May, 2022. †
- Universidad de Antioquia, seminar, February, 2022. †
- University of Massachusetts, Amherst, Colloquium, Jan, 2022. †
- University of Madison-Wisconsin, Science seminar, November 2021.†
- University of Michigan, Galaxies group seminar, November 2021.†
- NYU, CCPP, seminar, November 2021.†
- CCA, Flatiron Institute, Lunch Talk, October, 2021.
- Steward Observatory, Theoretical Astrophysics Program (TAP) colloquium, September, 2021.†
- [ComSciCon](#), June 2021. †.
- Steward Observatory, Galaxy lunch talk, March, 2021.
- Univesidad de los Andes, Astronomy Seminar, February, 2021.
- UC Irvine, Astronomy Seminar, January, 2021. †
- Steward Observatory, Early Career Scientist talk, December, 2020. †

- CCAPP, Seminar, December, 2020. †
- Princeton, Journal Club, November 2020. †
- KIPAC, Stanford, Tea-Talk, October 2020.
- Harvard Center for Astrophysics, GCSP seminar, October 2020.
- Carnegie Observatories, seminar, October 2020. †
- University of California Berkeley, lunch talk, September 2020.
- The Royal Observatory of Edinburgh, UK, Coffee Talk, August 2019. †
- W.M. Keck Observatory, Journal Club, June 2019.
- Magellanic Cloud Fest III, University of Arizona, May, 2019.
- JILA Seminar, JILA Institute, University of Colorado, December 2017.
- STScI Galaxies Journal Club. December 2016.
- Magellanic Cloud Fest II, University of Arizona, March 2016.
- UNAM, Mexico City, Mexico, Nov 2013.
- Centro de Investigaciones De Astronomía CIDA, Merida, Venezuela, July 2013.

†*Invited*

Posters

- European Astronomical Society meeting, virtual meeting, June 2020.
- Rediscovering our Galaxy, IAU symposium 334, Potsdam, Germany. July 2017.

Telescope and HPC time Awarded

- Hubble Space Telescope, 32 orbits, Cycle 31, 2023. PI: Prof. Sukanya Chakrabarti (U. Alabama).
- MareNostrum Super computer, 1.7 million CPU hours, AECT-2023-2-0016, 2023. PI: Prof. Chervin Laporte (U Barcelona).
- GMRT 60 hours cycle 44, 2023. PI: Prof. Karin Menendez-Delmestre (Valongo Observatory, Rio de Janeiro).
- Blanco Telescope, “*A VISTA-DECam Experiment in Near-Field Cosmology: Search for the Magellanic Dark Matter Wake*” cycle 2020B. PI: Prof. Julio Chaname (Universidad Catolica de Chile), 3 nights.

Grants

- LSSTC Grant Award (Virtual Internship in Rubin/LSST Science to Provide Research Experience to Undergraduate Students in Colombian Institutions) [2021-51](#), 2021. CO-PI: Nicolás Garavito-Camargo. This grant was awarded to support undergraduate research summer projects.
- International Astronomical Union (IAU) Office of Astronomy development (OAD) [grant 2021](#). PI: Nicolás Garavito-Camargo. This grant was awarded to support the [mentorship program for undergraduate students](#) in Colombia.
- University of Arizona theory travel grant, 2016 and 2018.
- IAU travel grant, 2016.

Observing Experience

- DECam, Blanco-4m telescope, CTIO, Chile, 3 nights, 2020.
- VATT telescope. Mt Graham, Arizona, 4 nights, 2016.
- CIDA, Merida, Venezuela - 2 nights, 2013.

Research highlights in the news

- <https://phys.org/news/2025-02-supermassive-black-hole-large-magellanic.html>Phys.org: There could be a supermassive black hole in the Large Magellanic Cloud hurling stars at the Milky Way.
- Sky & Telescope: How our largest dwarf galaxy keeps other in line
- JPL Nasa: Astronomers Release New All-Sky Map of Milky Way's Outer Reaches
- Syfy Wire: Dark Matter could be powering a galaxy that orbits the Milky Way until they collide
- Astrobites:
- Phys.org: Astronomers release new all-sky map of the Milky Way's outer reaches
- University of Arizona news: Astrophysicist help chart dark matters invisible ocean
- AAS NOVA 2020: An Asymmetric Dark Matter Halo
- AAS NOVA 2019: Hunting for a Dark Matter Wake

Publications list

Refereed: 33– First author: 5 – Supervised students: 3 (denoted by †) – Co-supervised students: 1 (denoted by ‡) h -index: 15 – citations : 1259 (as of May 30th, 2025)

[ORCID](#), [ADS](#), [arXiv](#), [Google Scholar](#)

First author publications or with significant contributions as mentor

33. † *Shaping the Milky Way: The interplay of mergers and cosmic filaments*
Arpit Arora, **Nicolás Garavito-Camargo**, Robyn E. Sanderson, Martin D. Weinberg, Michael S. Petersen, Silvio Varela-Lavin, Facundo A. Gómez, Kathryn V. Johnston, Chervin F. P. Laporte, Nora Shipp, Jason A. S. Hunt, Gurtina Besla, Elise Darragh-Ford, Nondh Panithanpaisal, Kathryne J. Daniel. ApJ in press 2025. [2 citations]
32. *The M31–M33 Interaction: Impact on M31's Center-of-mass Motion and Satellite Orbits*
Ekta Patel, **Nicolás Garavito-Camargo**, Ivanna Escala. ApJ, 985, 1, 2025. [1 citation]
31. † *LMC Calls, Milky Way Halo Answers: Disentangling the Effects of the MW–LMC Interaction on Stellar Stream Populations*
Richard A. N. Brooks, **Nicolás Garavito-Camargo**, Kathryn V. Johnston, Adrian M. Price-Whelan, Jason L. Sanders, Sophia Lilleengen. ApJ, 978, 1, 2025. [6 citations]
30. ‡ *Segue2 Recently Collided with the Cetus-Palca Stream: New Opportunities to Constrain Dark Matter in an Ultra-Faint Dwarf*
Hayden R. Foote, Gurtina Besla, **Nicolás Garavito-Camargo**, Ekta Patel, Guillaume F. Thomas, Ana Bonaca, Adrian M. Price-Whelan, Annika H. G. Peter, Dennis Zaritsky, Charlie Conroy. ApJ, 979, 2, 2025. [1 citation]
29. † *LMC-driven anisotropic boosts in stream–subhalo interactions*
Arora, A.; **Garavito-Camargo, N.**; Sanderson, R.E.; Cunningham, E.C.; Wetzel, A.; Panithanpaisal, N.; Barry, M. ApJ, 974, 2, 2024. [10 citations]
28. *On the co-rotation of Milky Way satellites: LMC-mass satellites induce apparent motions in outer halo tracers*
Nicolás Garavito-Camargo, Adrian M. Price-Whelan, Emily C. Cunningham, Jenna Samuel, Ekta Patel, Andrew Wetzel, Kathryn V. Johnston, Arpit Arora, Robyn E. Sanderson, Lehman Garrison, Danny Horta. ApJ, 975, 1, 2024. [11 citations]
27. *The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites*
Garavito-Camargo, Nicolás; Patel, Ekta; Besla, Gurtina; Price-Whelan, Adrian; Laporte, Chervin; Gómez, Facundo A.; Johnston, Kathryn V. ApJ, 923, 2, 2021. [33 citations]
26. *Quantifying the impact of the Large Magellanic Cloud on the structure of the Milky Way's dark matter halo using Basis Function Expansions*
Garavito-Camargo, Nicolás; Besla, Gurtina; Laporte, Chervin; Price-Whelan, Adrian M.; et al. ApJ, 919, 109, 2021. [105 citations]

25. *Quantifying the Stellar Halo's Response to the LMC's Infall with Spherical Harmonics*
Cunningham, Emily C.; **Garavito-Camargo, Nicolás**; Deason, Alis J.; Johnston, Kathryn V.; et al. ApJ, 898, 1, 2020. [57 citations]
24. *Hunting for the DM Wake induced by the LMC*
Garavito-Camargo, Nicolás; Besla, Gurtina; Laporte, Chervin F.P.; Johnston, Kathryn V.; Gómez, Facundo A.; Watkins, Laura. ApJ, 884, 1, 2019. [180 citations]
23. *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. [11 citations]

Publications with significant contributions

22. *The distant Milky Way halo from the Southern hemisphere: Characterization of the LMC-induced dynamical-friction wake*
Manuel Cavieres, Julio Chanamé, Camila Navarrete, Yasna Ordenes-Briceño, **Nicolás Garavito-Camargo**, Gurtina Besla, Maren Hempel, Katherina Vivas, Facundo Gómez. ApJ, 983, 1, 2025. [4 citations]
21. *The All-Sky Impact of the LMC on the Milky Way Circumgalactic Medium*
Christopher Carr, Greg L. Bryan, **Nicolás Garavito-Camargo**, Gurtina Besla, David J. Setton, Kathryn V. Johnston. ApJ, 983, 2, 2025. [4 citations]
20. *All-Sky Kinematics of the Distant Halo: The Reflex Response to the LMC*
Vedant Chandra, Rohan P. Naidu, Charlie Conroy, **Nicolás Garavito-Camargo**, Chervin F.P. Laporte, Ana Bonaca, et al. ApJ in press, 2025. [17 citations]
19. *Structure, Kinematics, and Observability of the Large Magellanic Cloud's Dynamical Friction Wake in Cold vs. Fuzzy Dark Matter*
Hayden R. Foote, Gurtina Besla, Philip Mocz, **Nicolás Garavito-Camargo**, Lachlan Lancaster, Martin Sparre, Emily C. Cunningham, Mark Vogelsberger, Facundo A. Gómez, Chervin F.P. Laporte. ApJ, 954, 2, 2023. [15 citations]
18. *Implications of the Milky Way travel velocity for dynamical mass estimates of the Local Group*
Katie Chamberlain, Adrian M. Price-Whelan, Gurtina Besla, Emily C. Cunningham, **Nicolás Garavito-Camargo**, Jorge Peñarrubia, Michael S. Petersen. ApJ, 942, 1, 2023. [27 citations]
17. *All-Sky Dynamical Response of the Galactic Halo to the Large Magellanic Cloud*
Charlie Conroy, Rohan P. Naidu, **Nicolás Garavito-Camargo**, Gurtina Besla, et al. Nature, 592, 7855, 2021. [107 citations]
16. *The orbital histories of Magellanic Satellites Using Gaia DR2 proper motions*
Ekta Patel, Nitya Kallivayalil, **Nicolás Garavito-Camargo**, et al. ApJ, 893, 121, 2020. [157 citations]
15. *Modelling the gas kinematics of an atypical Ly α emitting compact dwarf galaxy*
Jaime E. Forero-Romero, Max Gronke, Maria Camila Remolina-Gutiérrez, **Nicolás Garavito-Camargo**, Mark Dijkstra. MNRAS, 474, L12, 2018. [2 citations]

Publications with moderate contributions

14. *Where do High-Velocity Dark Matter Particles Come from in the Milky Way?*
Aidan DeBrae, Peter Behroozi, **Nicolás Garavito-Camargo**. Submitted to OJA, 2025. [0 citations]
13. *Hypervelocity Stars Trace a Supermassive Black Hole in the Large Magellanic Cloud*
Jiwon Jesse Han, Kareem El-Badry, Scott Lucchini, Lars Hernquist, Warren Brown, **Nicolás Garavito-Camargo**, Charlie Conroy, Reem Sari. ApJ, in press, 2025. [5 citations]
12. *Efficient and Accurate Force Replay in Cosmological-Baryonic Simulations*
Arpit Arora, Robyn Sanderson, Christopher Regan, **Nicolás Garavito-Camargo**, Emily Bregou, Nondh Panithanpaisal, Andrew Wetzel, Emily Cunningham, Sarah Loebman, Adriana Dropulic, Nora Shipp. ApJ, 977, 1, 2024. [7 citations]
11. *Generating Synthetic Star Catalogs from Simulated Data for Next-Gen Observatories with py-ananke*
Adrien C.R. Thob, Robyn E. Sanderson, Andrew P. Eden, Farnik Nikakhtar, Nondh Panithanpaisal, **Nicolás Garavito-Camargo**, Sanjib Sharma. JOSS, 9, 1234, 2024. [4 citations]

10. *Dark Matter Distribution in Milky Way-Analog Galaxies*
Natanael Gomes-Oliveira, K. Menéndez-Delmestre, T.S. Gonçalves, D.C. Rodrigues, M. Grossi, **N. Garavito-Camargo**, A. Araújo, P.P.B. Beaklini, Y. Cavalcante-Coelho, A. Cortesi, L.H. Quiroga-Núñez, T. Randriamampandry. *ApJ*, 2023. [2 citations]
9. *The Proto-Galaxy of Milky Way-Mass Haloes in the FIRE Simulation*
Danny Horta, EmilyC. Cunningham, Robyn Sanderson, KathrynV. Johnston, Alis Deason, Andrew Wetzel, Fiona McCluskey, **Nicolás Garavito-Camargo**, Lina Necib, Claude-André Faucher-Giguère, Arpit Arora, PratikJ. Gandhi. *ApJ*, submitted 2023. [20 citations]
8. *Galactoseismology in Cosmological Simulations: Vertical Perturbations by Dark Matter, Satellite Galaxies and Gas*
B. García-Conde, T. Antoja, S. Roca-Fabrega, G. Gómez, P. Ramos, **Nicolás Garavito-Camargo**, M.A. Gómez-Flechoso. *MNRAS*, accepted 2023. [10 citations]
7. *The Impact of the Large Magellanic Cloud on Dark Matter Direct Detection Signals*
Adam Smith-Orlik, NimaRonaghi, NassimBozorgnia, MariusCautun, AzadehFattahi, Gurtina Besla, CarlosS. Frenk, **Nicolás Garavito-Camargo**, FacundoA. Gómez, RobertJ.J. Grand, Federico Marinacci, AnnikaH.G.Peter. *JCAP*, submitted 2023. [21 citations]
6. *Lopsided Galaxies in a Cosmological Context: A New Galaxy-Halo Connection*
Silvio Varela-Lavin, FacundoA. Gómez, PatriciaB. Tissera, GurtinaBesla, **Nicolás Garavito-Camargo**, Federico Marinacci. Submitted to *MNRAS*, 2022. [9 citations]
5. *On the Stability of Tidal Streams in Action Space*
Arpit Arora, RobynE. Sanderson, Nondh Panithanpaisal, EmilyC. Cunningham, Andrew Wetzel, **Nicolás Garavito-Camargo**. *ApJ*, 939, 1, 2022. [25 citations]
4. *The Highest-Speed Local Dark Matter Particles Come from the Large Magellanic Cloud*
Gurtina Besla, AnnikaPeter, **Nicolás Garavito-Camargo**. *JCAP*, 11, 13, 2019. [38 citations]
3. *The Influence of Sagittarius and the Large Magellanic Cloud on the Stellar Disc of the Milky Way Galaxy*
ChervinF.P. Laporte, KathrynV. Johnston, FacundoA. Gómez, **Nicolás Garavito-Camargo**, GurtinaBesla. *MNRAS*, 481, L286, 2018. [205 citations]
2. *The Extremely Luminous Quasar Survey in the Sloan Digital Sky Survey Footprint. II. The North Galactic Cap Sample*
Jan-Torge Schindler, Xiaohui Fan, IanD. McGreer, Jinyi Yang, Feige Wang, Richard Green, **Nicolás Garavito-Camargo**, et al. *ApJ*, 863, 144, 2018. [20 citations]
1. *Response of the Milky Way's Disc to the Large Magellanic Cloud in a First Infall Scenario*
C. Laporte, F. Gómez, Gurtina Besla, KathrynV. Johnston, & **Nicolás Garavito-Camargo**. *MNRAS*, 473, L121, 2018. [129 citations]

White papers

3. *NANCY: Next-generation All-sky Near-infrared Community survey* Y Jiwon Jesse Han, et al. (incl. **Garavito-Camargo, N**). [call for white papers for the Roman Core Community Survey](#)
2. *Mass Spectroscopy of the Milky Way*
Dey, Arjun. et al., (incl. **Garavito-Camargo, N**). *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Vol. 51, Issue 3, id. 489 (2019).
1. *The Multidimensional Milky Way*.
Sanderson, Robyn E .et al. (incl. **Garavito-Camargo**) 2019. *Astro2020: Decadal Survey on Astronomy and Astrophysics*, 2019, Vol. 51, Issue 3, id. 347 (2019).