

# UNIVERSITY OF VICTORIA - CURRICULUM VITAE

Last updated: January 2024

**NAME:** NAVARRO, Julio F.

**Faculty or School:** Science **Department:** Physics and Astronomy

## **1. EDUCATION and TRAINING**

<u>Degree</u>	<u>Institution</u>	<u>Year obtained</u>
B.Sc.	Universidad Nacional de Córdoba, Argentina	1986
Ph.D.	Universidad Nacional de Córdoba, Argentina	1989

## **2. POSITIONS HELD PRIOR TO APPOINTMENTS AT UNIVERSITY OF VICTORIA**

2007-2008: Professor of Astronomy, University of Massachusetts, Amherst, MA, USA.

1994-1998: Bart J. Bok Fellow, Steward Observatory, University of Arizona, Tucson, AZ, USA.

1991-1994: Senior Research Assistant, Physics Department, University of Durham, Durham, United Kingdom.

1991: Research Assistant, Institute of Astronomy, University of Cambridge, Cambridge, United Kingdom

1989-1990: Smithsonian Astrophysics Observatory Predoctoral Fellow, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA.

1989-1990: Associate Researcher at Harvard College Observatory, Center for Astrophysics, Harvard University, Cambridge, MA, USA.

1986-1988: Graduate Student Fellowship, Consejo de Investigaciones Científicas y Técnicas de la República Argentina (CONICET).

### **3. APPOINTMENTS at the UNIVERSITY of VICTORIA**

<b>Period</b>	<b>Rank</b>	<b>Academic unit</b>
2019-2024	Science Lansdowne Professor	UVic Science Faculty
1 Jul 02 – present	Professor	Physics and Astronomy

1 Jul 01 – 30 Jun 02	Associate Professor	Physics and Astronomy
1 Apr 98 – 30 Jun 01	Assistant Professor	Physics and Astronomy

#### 4. MAJOR FIELD(S) OF SCHOLARLY OR PROFESSIONAL INTEREST

Astronomy: Physics: Cosmology: Galaxies: Dark Matter: Numerical Simulations

#### 5. RESEARCH GRANTS AND FELLOWSHIPS

##### a. Research operating grants

Agency	Title	Grant holders (indicate PI)	Time period	Amount awarded per annum in CAD\$
NASA	ATP Grant	Matthias Steinmetz	1997/2000	\$125,000
UVIC	Innovative Teaching Award	Julio Navarro	1999	\$5,000
NSERC	Research Grant	Julio Navarro	1998	\$38,500
UVIC	Research and Travel Grant	Julio Navarro	1999	\$1,021
NSERC	Research Grant	Julio Navarro	1999	\$42,350
AUCC	Going Global-STEP Program	Julio Navarro	1999	\$1,850
UVIC	Research and Travel Grant	Julio Navarro	2000	\$1,062
NSERC	Research Grant	Julio Navarro	2000	\$41,500
NSERC	CRO	Arif Babul	2000/2003	\$120,000
PIMS	Postdoctoral Fellow	Julio Navarro	2000/2001	\$ 18,000
CITA	National Fellow	Julio Navarro	2000/2001	\$ 25,000
NASA	ATP Grant	Matthias Steinmetz	2001/2003	\$140,000
NSERC	Research Grant	Julio Navarro	2001/2003	\$42,500
NSERC	CRO	Ray Carlberg	2001/2004	\$2,350,000
NSERC	Research Grant	Julio Navarro	2004/2009	\$59,000
CITA	National Fellow	Julio Navarro	2002/2004	\$25,000
UVIC	Research and Travel Grant	Julio Navarro	2004/2009	\$750
NSERC	Special Res. Opportunities	Julio Navarro	2005/2007	\$95,000
NSERC	Research Grant	Julio Navarro	2009/2013	\$75,000
UVic	Internal Research Grant	Julio Navarro	2009/2012	\$900
CIfAR	Research Grant	Julio Navarro	2007/2016	\$20,000
NSERC	Research Grant	Julio Navarro	2014/2018	\$62,000
NSERC	Research Grant	Julio Navarro	2019/2024	\$61,000
UVic	Lansdowne Research Grant	Julio Navarro	2021/2024	\$30,000

##### b. Equipment Grants

UVIC	Startup	Julio Navarro	1998	\$129,000
CFI	New Opportunities	Julio Navarro	1998/99	\$155,000

BCKDF	Equipment	N. Dimopoulos	2000	\$1,107,361
CFI	Equipment	N. Dimopoulos	2000	\$1,107,604
CFI	Equipment	Inna Sharf	2000	\$711,080
NSERC	Equipment	Julio Navarro	2010	\$42,887

**c. Honours, fellowships, and scholarships**

Royal Society (UK) Wolfson Visiting Fellowship	2024-2025
Doctorate "Honoris Causa"	
(University of Córdoba, Argentina)	December 2023
Elected Fellow, Argentine National Academy of Sciences	October 2022
Doctorate "Honoris Causa"	
(University of Santiago del Estero, Argentina)	October 2021
Clarivate Analytics Citation Laureate (Physics 2020)	Fall 2020
Science Lansdowne Professorship (UVic)	2019-2024
UK Leverhulme Foundation Visiting Professorship	Summer 2016
Henry Marshall Tory Medal of the Royal Society of Canada	2015
UK Leverhulme Foundation Visiting Professorship	Summer 2015
Fellow of the Royal Society of Canada	2011 to date
Perimeter Institute Affiliate Member	2010 to date
Senior Fellow of the Canadian Institute for Advanced Research	2002 to date
UK Leverhulme Foundation Visiting Professorship	2004/2006
John Simon Guggenheim Memorial Foundation Fellowship	2003/2005
Fellow of the Institute for Advanced Studies of the Hebrew University of Jerusalem	2003
University of Victoria Faculty of Science Research Award	2003
Friedrich Wilhelm Bessel Research Prize (Humboldt Foundation)	2003/2005
Alfred P. Sloan Foundation Fellowship	1999/2001
Scholar of the Canadian Institute for Advanced Research	1998/2002

#### **d. Miscellaneous**

- Included in Thomson's ISI list of "Highly Cited Scientists" 2004 and 2017
  - Biography included in Who's Who in the World 2004
  - Biography included in "2000 Intellectuals of the 21<sup>st</sup> Century". International Biographical Center, Cambridge, UK 2004
  - Nominated as 2004 International Scientist of the Year, International Biographical Center, Cambridge, UK

## 6. PUBLICATIONS and PRESENTATIONS

**a. Articles published in refereed journals**

**Citation analysis (as of January 2024, source: ADS): 320 refereed papers; 66,000+ total refereed citations; 2 papers with 5000+ citations, 5 papers with 2500+ citations; 6 papers with 1000+ citations; 20 papers with 500+ citations; 45 papers with 250+ citations; 109 papers with 100+ citations. H-index=102 (i.e., 102 papers with 102+ citations). Top 10 most cited papers underlined; individual citations in brackets [].**

1. Navarro, J.F., Mosconi, M.B. and Lambas, D.G., 1987. Merging Instability in Groups of Galaxies with Dark Matter. *M.N.R.A.S.*, **228**, 501.
2. Navarro, J.F. and Mosconi, M.B., 1989. Spherical Galaxy Collisions: Head-On Encounters. *Ap. J.* **336**, 669.
3. Navarro, J.F., 1989. Merging Encounters between Equal-Mass Non-Rotating Galaxies. *M.N.R.A.S.* **239**, 257.
4. Navarro, J.F., 1990. On the Density Structure of Galaxy Merger Remnants. *M.N.R.A.S.* **242**, 311.
5. Navarro, J.F. and Benz, W., 1991. Dynamics of Cooling Gas in Galactic Dark Halos, *Ap. J.* **380**, 320.
6. Navarro, J.F. and White, S.D.M., 1993. Simulations of Dissipative Galaxy Formation in Hierarchically Clustering Universes I: Tests of the Code. *M.N.R.A.S.* **265**, 271.
7. White, S.D.M., Navarro, J.F., Evrard, A.E., and Frenk, C.S., 1993. The Baryon Content of Galaxy Clusters: A Challenge to Cosmological Orthodoxy. *Nature* **366**, 429. [971]
8. Navarro, J.F. and White, S.D.M., 1994. Simulations of Dissipative Galaxy Formation in Hierarchically Clustering Universes II: Dynamics of the Baryonic Component in Galactic Halos, *M.N.R.A.S.*, **267**, 401.
9. Navarro, J.F., Frenk, C.S., and White, S.D.M., 1994. Accretion of Satellite Galaxies and the Density of the Universe. *M.N.R.A.S.* **267**, L1.
10. Cole, S., Aragón, A., Frenk, C.S., Navarro, J.F., and Zepf, S., 1994. A Recipe for Galaxy Formation. *M.N.R.A.S.*, **271**, 781. [852]
11. Heyl, J.S., Cole S., Frenk C.S., and Navarro, J.F., 1995. Galaxy Formation in a Variety of Hierarchical Models, *M.N.R.A.S.* **274**, 755.
12. Navarro, J.F., Frenk, C.S., and White, S.D.M., 1995. The Assembly of Galaxies in a Hierarchically Clustering Universe. *M.N.R.A.S.*, **275**, 56.
13. Navarro, J.F., Frenk, C.S., and White, S.D.M., 1995. Simulations of X-ray Clusters. *M.N.R.A.S.* **275**, 720. [854]
14. Navarro, J.F., White, S.D.M., and Frenk, C.S. 1996. The Structure of Cold Dark Matter Halos. *Ap. J.* **462**, 563. [7085]
15. Eke, V.R., Cole, S.M., Frenk, C.S., and Navarro, J.F. 1996. Cluster Correlation Functions in N-body Simulations, *M.N.R.A.S.* **281**, 703.
16. Evrard, A.E., Metzler, C.A., and Navarro, J.F. 1996. Mass Estimates of X-Ray Clusters, *Ap. J.* **469**, 494.
17. Raiteri, C.M., Villata, M., and Navarro, J.F., 1996. Simulations of Galactic Chemical Evolution. I. O and Fe Abundances in a Simple Collapse Model, *Astronomy and Astrophysics*, **315**, 105.
18. Navarro, J.F., Eke, V.R., and Frenk, C.S., 1996. The Cores of Dwarf Galaxy Halos. *M.N.R.A.S.*, **283**, L72.
19. Navarro, J.F., and Steinmetz, M., 1997. The Effects of a Photoionizing UV Background on the Formation of Disk Galaxies, *Ap. J.* **478**, 13.

20. Navarro, J.F., Frenk, C.S., and White, S.D.M., 1997. A Universal Density Profile from Hierarchical Clustering. *Ap. J.* **490**, 493. [8701]
21. Eke, V.R., Navarro, J.F., and Frenk, C.S. 1998. The Evolution of X-ray Clusters in a Low-Density Universe, *Ap. J.* **503**, 569.
22. Ponman, T., Cannon, D., and Navarro, J.F., 1999. The Thermal Imprint of Galaxy Formation on X-ray Clusters. *Nature*, **397**, 135.
23. Steinmetz, M., Navarro, J.F. 1999. The Cosmological Origin of the Tully-Fisher Relation. *Ap.J.* **513**, 555.
24. Frenk, C.S., White, S.D.M., Bryan, G., Cen, R., Couchman, H., Evrard, A.E., Gnedin, N., Jenkins, A., Navarro, J.F., Owen, M., Pen, U., Steinmetz, M., Yepes, G., Wadsley, J., Warren, M. 1999. The Santa Barbara Cluster Comparison Project: A Test of Cosmological Hydrodynamics Solutions. *Ap.J.*, **525**, 554.
25. Williams, L., Navarro, J.F., Bartelmann, M. 1999. The Core Structure of Galaxy Clusters from Gravitational Lensing. *Ap.J.* **527**, 535.
26. Navarro, J.F., Steinmetz, M. 2000. The Core Density of Dark Matter Halos. A Critical Challenge to the Lambda CDM Paradigm?. *Ap.J.* **528**, 607.
27. Abadi, M.G., Bower, R., Navarro, J.F. 2000. Self-similar Shocked Accretion of Collisional Gas with Radiative Cooling. *M.N.R.A.S.* **314**, 759.
28. Navarro, J.F., Steinmetz, M. 2000. Dark Halo and Disk Galaxy Scaling Laws. *Ap.J.* **538**, 477. [378]
29. Balogh, M., Navarro, J.F., Morris, S. 2000. The Origin of Star Formation Gradients in Rich Galaxy Clusters. *Ap.J.* **540**, 113.
30. Eke, V.R., Navarro, J.F., Steinmetz, M. 2001. The Power Spectrum Dependence of Dark Matter Halo Concentrations. *The Astrophysical Journal*, **554**, 114.
31. Taylor, J., Navarro, J.F. 2001. The Phase-Space Density Profile of Cold Dark Matter Halos. *The Astrophysical Journal*, **563**, 483.
32. Font, A., Navarro, J.F., Stadel, J., Quinn, T.R. 2001. Halo Substructure and Disk Heating in A Lambda CDM Universe. *The Astrophysical Journal Letters*, **563**, L1.
33. Steinmetz, M., and Navarro, J.F. 2002. The Hierarchical Origin of Galaxy Morphologies. *New Astronomy*, **7**, 155.
34. Power, C., Navarro, J.F., Jenkins, A.R., Frenk, C.S., White, S.D.M., Springel, V., Stadel, J., Quinn, T.R. 2003. The Inner Structure of  $\Lambda$ CDM Halos I: A Numerical Convergence Study. *MNRAS*, **338**, 14.
35. Hayashi, E., Navarro, J.F., Taylor, J.E, Stadel, J. Quinn, T.R. 2002. The Structural Evolution of Substructure. *The Astrophysical Journal*, **584**, 541.
36. Meza, A., Navarro, J.F., Steinmetz, M., Eke, V.R. 2003. Simulations of Galaxy Formation in a Lambda CDM Universe III: The Dissipative Formation of an Elliptical Galaxy. *The Astrophysical Journal*, **590**, 619.
37. Abadi, M.G., Navarro, J.F., Steinmetz, M., Eke, V.R. 2003. Simulations of Galaxy Formation in a  $\Lambda$ CDM Universe I: Dynamical and Photometric Properties of a Simulated Disk Galaxy. *The Astrophysical Journal*, **591**, 499.
38. Helmi, A., Meza, A., Navarro, J.F., Steinmetz, M., Eke, V.R. 2003. On the nature of the ringlike structure in the Outer Galactic Disk. *The Astrophysical Journal Letters*, **592**, L25.
39. Abadi, M.G., Navarro, J.F., Steinmetz, M., Eke, V.R. 2003. Simulations of Galaxy Formation in a Lambda CDM Universe II: The Fine Structure of Simulated Galactic Disks. *The Astrophysical Journal*, **597**, 21.

40. Navarro, J.F., Helmi, A., Freeman, K.C. 2003. The Extragalactic Origin of the Arcturus Group. *The Astrophysical Journal Letters*, **601**, L43.
41. Navarro, J.F., Hayashi, E., Jenkins, A., Frenk, C.S., Power, C., White, S.D.M., Springel, V., Stadel, J., Quinn, T.R. 2004. The Inner Structure of  $\Lambda$ CDM Halos III: Universality and Asymptotic Slopes. MNRAS, 349, 1039. [932]
42. Bradac, M., Schneider, P., Lombardi, M., Steinmetz, M., Koopmans, L.V.E., Navarro, J.F. 2004. The Signature of CDM Substructure on Gravitational Lensing. *Astronomy and Astrophysics*, **423**, 797.
43. Navarro, J.F., Abadi, M.G., Steinmetz, M. 2004. Tidal Torques and the Orientation of Nearby Disk Galaxies. *The Astrophysical Journal Letters*, **613**, L41.
44. Hayashi, E., Navarro, J.F., Jenkins, A., Frenk, C.S., Power, C., White, S.D.M., Springel, V., Stadel, J., Quinn, T.R. 2004. The Inner Structure of  $\Lambda$ CDM Halos II: Halo Mass Profiles and LSB Rotation Curves. *MNRAS*, **355**, 794.
45. Merritt, D., Navarro, J.F., Ludlow, A., Jenkins, A.R. 2005. A Universal Density Profile for Dark and Luminous Matter. *The Astrophysical Journal Letters*, **624**, L85.
46. Meza, A., Navarro, J.F., Abadi, M.G., Steinmetz, M. 2005. Accretion Relics in the Solar Neighbourhood: debris from  $\omega$ Cen's Parent Galaxy. *Monthly Notices of the Royal Astronomical Society*, **359**, 93.
47. Springel, V., White, S.D.M., Jenkins, A., Frenk, C.S., Yoshida, N., Gao, L., Navarro, J.F., Thacker, R., Croton, D., Helly, J., Peacock, J., Cole, S., Thomas, P., Couchman, H., Evrard, A., Colberg, J., Pearce, F. 2005. Simulations of the formation, evolution and clustering of galaxies and quasars. Nature, 435, 629. [3882]
48. Bailin, Jeremy; Kawata, Daisuke; Gibson, Brad K.; Steinmetz, Matthias; Navarro, Julio F.; Brook, Chris B.; Gill, Stuart P. D.; Ibata, Rodrigo A.; Knebe, Alexander; Lewis, Geraint F.; Okamoto, Takashi. 2005. Internal Alignment of the Halos of Disk Galaxies in Cosmological Hydrodynamic Simulations. *The Astrophysical Journal Letters*, **627**, L17
49. Libeskind, Noam I.; Frenk, Carlos S.; Cole, Shaun; Helly, John C.; Jenkins, Adrian; Navarro, Julio F.; Power, Chris. 2005. The distribution of satellite galaxies: the great pancake. *Monthly Notices of the Royal Astronomical Society*, **363**, 146.
50. Darren J. Croton, Volker Springel, Simon D. M. White, G. De Lucia, C. S. Frenk, L. Gao, A. Jenkins, G. Kauffmann, J. F. Navarro, N. Yoshida. 2006. The many lives of AGN: cooling flows, black holes and the luminosities and colours of galaxies. MNRAS, 365, 11. [3207]
51. Abadi, M.G., Navarro, J.F., Steinmetz, M., 2006. Stars beyond Galaxies: The Origin of Extended Luminous Halos around Galaxies. *MNRAS*, **365**, 747.
52. Amina Helmi, J.F. Navarro, B. Nordstrom, J. Holmberg, M.G. Abadi, M. Steinmetz, 2006. Pieces of the puzzle: Ancient substructure in the Galactic disk. *MNRAS*, **365**, 1309.
53. V.R.Eke, C.M.Baugh, S.Cole, C.S.Frenk, J.F.Navarro, 2006. Galaxy groups in the 2dFGRS: the number density of groups. *MNRAS*, **370**, 1147.
54. Steinmetz, M. et al 2006. The Radial Velocity Experiment (RAVE): first data release. *The Astronomical Journal*, **132**, 1645.
55. Hayashi, E., Navarro, J.F., 2006. Hiding Cusps in Cores: Kinematics of Disk Galaxies in Triaxial Dark Matter Halos. *MNRAS*, **373**, 1117.
56. Bett, P., Eke, V.R., Frenk, C.S., Jenkins, A., Helly, J., Navarro, J.F. 2007. The spin and shape of dark matter haloes in the Millennium simulation of a LambdaCDM universe. *MNRAS* **376**, 215.

57. Crain, Robert A.; Eke, Vincent R.; Frenk, Carlos S.; Jenkins, Adrian; McCarthy, Ian G.; Navarro, Julio F.; Pearce, Frazer R. 2007. The baryon fraction of LambdaCDM haloes. *MNRAS* **377**, 41.
58. Hayashi, E., Navarro, J.F., Springel, V. 2007. The Shape of the Gravitational Potential in Cold Dark Matter Halos. *MNRAS* **377**, 50.
59. Smith, M. C.; Ruchti, G. R.; Helmi, A.; Wyse, R. F. G.; Fulbright, J. P.; Freeman, K. C.; Navarro, J. F.; et al. 2007. The RAVE Survey: Constraining the Local Galactic Escape Speed. *MNRAS* **379**, 755.
60. Sales, L.V., Navarro, Julio F., Abadi, M.G., Steinmetz, M. 2007. Satellites of Simulated Galaxies: survival, merging, and their relation to the dark and stellar haloes. *MNRAS* **379**, 1464.
61. Sales, L.V., Navarro, Julio F., Abadi, M.G., Steinmetz, M. 2007. Cosmic Ménage à Trois: The Origin of Satellites on Extreme Orbits. *MNRAS* **379**, 1475.
62. D'Onghia, E., Navarro, J.F. 2007. Do Mergers Spin-up Dark Matter Haloes? *MNRAS* **380**, L58.
63. McConnachie, A., Peñarrubia, J., Navarro, J.F. 2006. Multiple dynamical components in Local Group dwarf spheroidals. *MNRAS* **380**, L75.
64. Neto, A.F., ..., Navarro, J.F., and 7 other coauthors, 2007. The statistics of Lambda CDM halo concentrations. *MNRAS* **381**, 1450.
65. Sales, L.V., Navarro, Julio F., Lambas, D.G., White, S.D.M., Croton, D.J. 2007. Satellite galaxies and fossil groups in the Millennium Simulation. *MNRAS* **382**, 1901.
66. Peñarrubia, J., Navarro, Julio F., McConnachie, A.W. 2008. The Tidal Evolution of Local Group Dwarf Spheroidals. *The Astrophysical Journal* **673**, 226.
67. Peñarrubia, J., McConnachie, A.W., Navarro, Julio. F. 2007. The Cold Dark Matter Halos of Local Group Dwarf Spheroidals. *The Astrophysical Journal* **672**, 904.
68. Seabroke, G.M., and 21 coauthors. 2008. Is the sky falling ? Searching for stellar streams in the local Milky Way disk in the CORAVEL and RAVE surveys. *MNRAS*, **384**, 11.
69. Veltz, L., and 19 co-authors. 2008. Galactic kinematics with RAVE data. I. The distribution of stars towards the Galactic poles. *A&A*, **480**, 753.
70. Gao, L., and 7 co-authors. 2008. The redshift dependence of the structure of massive  $\Lambda$  cold dark matter haloes. *MNRAS* **387**, 536.
71. Zwitter, T., and 49 co-authors. 2008. The Radial Velocity Experiment (RAVE): Second Data Release Tha *Astronomical Journal*, **136**, 421.
72. Munari, U., and 22 coauthors. 2008. Diffuse interstellar bands in RAVE survey spectra. *A&A*, **488**, 969.
73. Springel, V.; White, S. D. M.; Frenk, C. S.; Navarro, J. F.; Jenkins, A.; Vogelsberger, M.; Wang, J.; Ludlow, A.; Helmi, A. 2008. Prospects for detecting supersymmetric dark matter in the Galactic halo. *Nature*, **456**, 73.
74. Penarrubia, J., MCConnachie, A., and Navarro, J.F., 2008. "Local group dwarf galaxies in the  $\Lambda$ CDM paradigm". *AN* **329**, 934.
75. Siebert, A., and 18 coauthors. 2008. Estimation of the tilt of the stellar velocity ellipsoid from RAVE and implications for mass models. *MNRAS*, **391**, 793.
76. Springel, V.; Wang, J.; Vogelsberger, M.; Ludlow, A.; Jenkins, A.; Helmi, A.; Navarro, J. F.; Frenk, C. S.; White, S. D. M. 2008. The Aquarius Project: the subhaloes of galactic haloes. *MNRAS*, **391**, 1685. [1590]
77. Abadi, Mario G.; Navarro, Julio F.; Steinmetz, Matthias 2009. An Alternative Origin for Hypervelocity Stars. *The Astrophysical Journal* **691**, L63

78. Ludlow, Aaron D.; Navarro, Julio F.; Springel, Volker; Jenkins, Adrian; Frenk, Carlos S.; Helmi, Amina 2009. The Unorthodox Orbits of Substructure Halos. *The Astrophysical Journal* **692**, 931.
79. Vogelsberger, Mark; Helmi, Amina; Springel, Volker; White, Simon D. M.; Wang, Jie; Frenk, Carlos S.; Jenkins, Adrian; Ludlow, Aaron; Navarro, Julio F. 2009. Phase-space structure in the local dark matter distribution and its signature in direct detection experiments. *MNRAS* **395**, 797.
80. Peñarrubia, Jorge; Navarro, Julio F.; McConnachie, Alan W.; Martin, Nicolas F. 2009. The Signature of Galactic Tides in Local Group Dwarf Spheroidals. *The Astrophysical Journal* **698**, 222.
81. Munari, U.; and 21 coauthors, 2009. RAVE spectroscopy of luminous blue variables in the Large Magellanic Cloud. *Astronomy & Astrophysics* **503**, 511.
82. Xu, D. D.; Mao, Shude; Wang, Jie; Springel, V.; Gao, Liang; White, S. D. M.; Frenk, Carlos S.; Jenkins, Adrian; Li, Guoliang; Navarro, Julio F. 2009. Effects of dark matter substructures on gravitational lensing: results from the Aquarius simulations. *MNRAS* **398**, 1235.
83. McConnachie, Alan W.; and 12 co-authors, 2009. The remnants of galaxy formation from a panoramic survey of the region around M31. *Nature* **461**, 66.
84. Sales, Laura V.; Navarro, Julio F.; Schaye, Joop; Dalla Vecchia, Claudio; Springel, Volker; Haas, Marcel R.; Helmi, Amina 2009. The origin of extended disc galaxies at  $z = 2$ . *MNRAS* **399**, L64.
85. Martin, Nicolas F., and 12 co-authors, 2009. PAndAS' CUBS: Discovery of Two New Dwarf Galaxies in the Surroundings of the Andromeda and Triangulum Galaxies. *The Astrophysical Journal* **705**, 758.
86. Breddels, M. and 21 co-authors, 2010. Distance determination for RAVE stars using stellar models. *A&A* **511**, 90.
87. Navarro, Julio F.; Ludlow, Aaron; Springel, Volker; Wang, Jie; Vogelsberger, Mark; White, Simon D. M.; Jenkins, Adrian; Frenk, Carlos S.; Helmi, Amina, 2010. The diversity and similarity of simulated cold dark matter haloes. *MNRAS*, **402**, 21.
88. Gao, L., and 7 co-authors, 2010. The earliest stars and their relics in the Milky Way. *MNRAS* **403**, 1283.
89. Matijević, G., and 21 co-authors, 2010. Double-lined Spectroscopic Binary Stars in the Radial Velocity Experiment Survey. *AJ* **140**, 184.
90. Ludlow, A., and 7 co-authors, 2010. Secondary infall and the pseudo-phase-space density profiles of cold dark matter haloes. *MNRAS* **406**, 137.
91. Cooper, A., and 11 co-authors, 2010. Galactic stellar haloes in the CDM model. *MNRAS* **406**, 744.
92. Monelli, M., and 14 co-authors, 2010. The ACS LCID Project. III. The Star Formation History of the Cetus dSph Galaxy: A Post-reionization Fossil. *The Astrophysical Journal* **720**, 1225.
93. Kazantzidis, Stelios; Abadi, Mario G.; Navarro, Julio F., 2010. The Sphericalization of Dark Matter Halos by Galaxy Disks. *The Astrophysical Journal Letters* **620**, L62.
94. Abadi, Mario G.; Navarro, Julio F.; Fardal, Mark; Babul, Arif; Steinmetz, Matthias, 2010. Galaxy-induced transformation of dark matter haloes. *MNRAS* **407**, 435.
95. Ruchti, G., and 22 co-authors, 2010. Origins of the Thick Disk as Traced by the Alpha Elements of Metal-poor Giant Stars Selected from Rave. *The Astrophysical Journal Letters* **721**, L92.
96. Zwitter, T., and 22 co-authors, 2010. Distance determination for RAVE stars using stellar models . II. Most likely values assuming a standard stellar evolution scenario. *A&A* **522**, 54.
97. Fulbright, J., and 23 co-authors, 2010. The RAVE Survey: Rich in Very Metal-poor Stars. *The Astrophysical Journal Letters* **724**, L24.
98. Sales, Laura V.; Navarro, Julio F.; Schaye, Joop; Vecchia, Claudio Dalla; Springel, Volker; Booth, C. M., 2010. Feedback and the structure of simulated galaxies at redshift  $z= 2$ . *MNRAS* **409**, 1541.

99. Williams, M., and 24 co-authors, 2011. The Dawning of the Stream of Aquarius in RAVE. *ApJ* 728, 102.
100. Kiss, L., and 26 co-authors, 2011. A search for new members of the  $\beta$ Pictoris, Tucana-Horologium and  $\epsilon$ Cha moving groups in the RAVE data base. *MNRAS*, 411, 117.
101. Carlberg, R., and 12 co-authors, 2011. Density Variations in the NW Star Stream of M31. *ApJ* 731, 724.
102. Navarro, J.F., and 4 co-authors, 2011. Through Thick and Thin: Kinematic and Chemical Components in the Solar Neighbourhood. *MNRAS*, 412, 1203.
103. Coskunoglu, B., and 21 co-authors, 2011. Local stellar kinematics from RAVE data - I. Local standard of rest. *MNRAS*, 412, 1237.
104. Siebert, A. and 24 co-authors, 2011. Detection of a radial velocity gradient in the extended local disc with RAVE. *MNRAS* 412, 2026.
105. Helmi, A., and 5 co-authors, 2011. Substructure in the Stellar Halos of the Aquarius Simulations. *ApJ*, 733, L7.
106. Wang, J., Navarro, J.F. and 7 co-authors, 2011. Assembly history and structure of galactic cold dark matter haloes. *MNRAS* 413, 1373.
107. Wilson, M., and 23 co-authors, 2011. Testing formation mechanisms of the Milky Way's thick disc with RAVE. *MNRAS* 413, 2235.
108. Siebert, A., and 38 co-authors, 2011. The RAral Velocity Experiment (RAVE): Third Data Release. *AJ* 141, 187.
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285. Doppel, J.E., and 6 co-authors, 2021. "Globular clusters as tracers of the dark matter content of dwarfs in galaxy clusters". 2021MNRAS.502.1661D
286. Longeard, N. and 15 co-authors, 2021. "The pristine dwarf-galaxy survey - III. Revealing the nature of the Milky Way globular cluster Sagittarius II". 2021MNRAS.503.2754L
287. Fragkoudi, F., and 7 co-authors, 2021. "Revisiting the tension between fast bars and the  $\Lambda$ CDM paradigm". 2021A&A...650L..16F
288. Santos-Santos, I., and 3 co-authors, 2021. "Magellanic satellites in  $\Lambda$ CDM cosmological hydrodynamical simulations of the Local Group". 2021MNRAS.504.4551S
289. Errani, R., and Navarro, J.F., 2021. "The asymptotic tidal remnants of cold dark matter subhaloes". 2021MNRAS.505...18E
290. Arentsen, A., and 17 co-authors, 2021. "The Pristine Inner Galaxy Survey (PIGS) III: carbon-enhanced metal-poor stars in the bulge". 2021MNRAS.505.1239A
291. Karunakaran, A., and 15 co-authors, 2021. "Satellites around Milky Way Analogs: Tension in the Number and Fraction of Quiescent Satellites Seen in Observations versus Simulations". 2021ApJ...916L..19K

- 292.Di Cintio, A., and 3 co-authors, 2021. "Pericentric passage-driven star formation in satellite galaxies and their hosts: CLUES from local group simulations". 2021MNRAS.506..531D
- 293.Kielty, C., and 18 co-authors, 2021. "The Pristine survey - XII. Gemini-GRACES chemo-dynamical study of newly discovered extremely metal-poor stars in the Galaxy". 2021MNRAS.506.1438K
- 294.Jensen, J., and 11 co-authors, 2021. "Uncovering fossils of the distant Milky Way with UNIONS: NGC 5466 and its stellar stream". 2021MNRAS.507.1923J
- 295.Fernández-Alvar, E., and 11 co-authors, 2021. "The Pristine survey XIII: uncovering the very metal-poor tail of the thin disc". 2021MNRAS.508.1509F
- 296.Lardo, C., and 17 co-authors. 2021. "The Pristine survey - XIV. Chemical analysis of two ultra-metal-poor stars". 2021MNRAS.508.3068L
- 297.Martin, N., and 25 co-authors. 2022. "A stellar stream remnant of a globular cluster below the metallicity floor". 2022Natur.601...45M
- 298.Borukhovetskaya, A., and 4 co-authors, 2022. "The tidal evolution of the Fornax dwarf spheroidal and its globular clusters". 2022MNRAS.509.5330B
- 299.Lucchesi, R., and 16 co-authors. "The Pristine survey - XV. A CFHT ESPaDOnS view on the Milky Way halo and disc populations". 2022MNRAS.511.1004L
- 300.Errani, R., and 4 co-authors, 2022. "Structure and kinematics of tidally limited satellite galaxies in LCDM". 2022MNRAS.511.6001E
- 301.Yuan, Z., and 18 co-authors. 2021. "The Complexity of the Cetus Stream Unveiled from the Fusion of STREAMFINDER and StarGO". 2022ApJ...930..103Y
- 302.Borukhovetskaya, A, and 3 co-authors. "Galactic tides and the Crater II dwarf spheroidal: a challenge to LCDM?". 2022MNRAS.512.5247B
- 303.Yuan, Z., and 24 co-authors, 2022. "The Pristine survey -- XVII. The C-19 stream is dynamically hot and more extended than previously thought". 2022MNRAS.514.1664Y
- 304.Errani, R., and 14 co-authors, 2022. "The Pristine survey XVIII: C-19: Tidal debris of a dark matter-dominated globular cluster?". 2022MNRAS.514.3532E
- 305.Santos-Santos, I., and 3 co-authors, 2021. "Satellite mass functions and the faint end of the galaxy mass-halo mass relation in LCDM". 2022MNRAS.515.3685S
- 306.Longeard, N., and 14 co-authors, 2021. "The Pristine Dwarf-Galaxy survey -- IV. Probing the outskirts of the dwarf galaxy Boötes I". 2022MNRAS.516.2348L
- 307.Martin, N., and 23 co-authors. 2022. "The Pristine survey -- XVI. The metallicity of 26 stellar streams around the Milky Way detected with the STREAMFINDER in Gaia EDR3". 2022MNRAS.516.5331M
- 308.Sestito, F., and 15 co-authors, 2022. "The Pristine Inner Galaxy Survey (PIGS) V: a chemo-dynamical investigation of the early assembly of the Milky Way with the most metal-poor stars in the bulge". 2023MNRAS.518.4557S.
- 309.Errani, R., and 4 co-authors, 2023. "Dark matter halo cores and the tidal survival of Milky Way satellites". 2023MNRAS.519..384E
- 310.Waller, F., and 8 co-authors, 2023. "The Cosmic Hunt for members in the outskirts of ultra-faint dwarf galaxies: Ursa Major I, Coma Berenices, and Boötes I". 2023MNRAS.519.1349W
- 311.Pereira-Wilson, M., and 3 co-authors, 2023. "The cosmic UV background and the beginning and end of star formation in simulated field dwarf galaxies". 2023MNRAS.519.1425P
- 312.Blanchette, K., and 7 co-authors, 2023. "Velocity-dependent J-factors for Milky Way dwarf spheroidal analogues in cosmological simulations". 2023JCAP...03..021B

313. Santos-Santos, I., and 2 co-authors, 2023. "The Tucana dwarf spheroidal: a distant backsplash galaxy of M31?". 2023MNRAS.520...55S.
314. Roper, F., and 5 co-authors, 2023. "The diversity of rotation curves of simulated galaxies with cusps and cores". 2023MNRAS.521.1316R
315. Sestito, F., and 7 co-authors, 2023. "Stars on the edge: Galactic tides and the outskirts of the Sculptor dwarf spheroidal". 2023MNRAS.523..123S.
316. Simon, S., and 6 co-authors, 2023. "Discovery of a New Local Group Dwarf Galaxy Candidate in UNIONS: Boötes V". 2023AJ....166...76S
317. Benítez-Llambay, A., and Navarro, J.F., 2023. "Is a Recently Discovered H I Cloud near M94 a Starless Dark Matter Halo?". 2023ApJ...956....1B
318. Sestito, F., and 12 co-authors, 2023. "The extended 'stellar halo' of the Ursa Minor dwarf galaxy". 2023MNRAS.525.2875S.
319. Jensen J., and 4 c-authors, 2023. "Small-scale stellar haloes: detecting low surface brightness features in the outskirts of Milky Way dwarf satellites". 2024MNRAS.527.4209J.
320. Dovgal A., and 30 co-authors, 2023. "Probing the early Milky Way with GHOST spectra of an extremely metal-poor star in the Galactic disc". 2024MNRAS.527.7810D.

### **b. Refereed conference proceedings**

1. Navarro, J.F., 1994. Mergers and Galaxy Formation,. Invited Review at the UNAM-CRAY Supercomputer Conference on Numerical Simulations in Astrophysics, J.J. Franco et al. (eds.), (Cambridge University Press: Cambridge), page 53.
2. Navarro, J.F., 1995. Simulations of Galaxy Formation in Hierarchically Clustering Universes, Invited Review at the 11th IAP Meeting, The Interplay between Massive Star Formation, the ISM and Galaxy Evolution, eds. Kunth, D. et al., (Editions Frontières: Paris), page 457.
3. Navarro, J.F., 1996. Cosmological Constraints from Rotation Curves of Disk Galaxies, in the Proceedings of *Dark and Visible Matter in Galaxies and Cosmological Implications* (PASP Conference Series), eds. M. Persic and P. Salucci, p. 404.
4. Gómez-Flechoso, M.A., Domínguez-Tenreiro, R., Navarro, J.F., 1997. The Effects of Cluster Tides on Disk Galaxies, *Astrophysical Letters & Communications*, **36**, 291. [0]
5. Navarro, J.F., 1998. Dark Matter Halos and Disk Rotation Curves. Invited Review at the Santa Cruz Workshop, Galactic Halos, ed. Zaritsky, D., PASP Conference Series 136, page 409.
6. Steinmetz, M., Navarro, J.F. 2000. The Origin of Galaxy Scaling Laws. In "Dynamics of Galaxies: From the Early Universe to the Present", eds. F. Combes, G. Mamon, W. Charmandaris. ASP Conference Series 197. Page 165.
7. Navarro, J. 2000. Dark Halo and Disk Galaxy Scaling Laws. In "Galaxy Disks and Disk Galaxies", ASP Conference Series, volume 230, p.527, J.G.Funes, S.J. and E.M.Corsini, eds.

8. Navarro, J. 2001. "The Inner Structure of Cold Dark Matter Halos". In the proceedings of IAU Symposium 208, "Astrophysical Supercomputing Using Particle Simulations", eds. J.Makino & P.Hut., p.261.
9. Hayashi, E., Navarro, J.F. 2001. "Structural Evolution of Substructure". Proceedings of IAU Symposium 208, "Astrophysical Supercomputing Using Particle Simulations", eds. J.Makino & P.Hut, p.403.
10. Navarro, J.F. 2003. "Simulations of Dark Matter Halos". Royal Society Scientific Discussion Meeting on Dark Matter.
11. Font, A., Navarro, J.F. 2001. "Cold Dark Matter Substructure and the Heating of Galactic Disks". Proceedings of IAU Symposium 208, "Astrophysical Supercomputing Using Particle Simulations", eds. J.Makino & P.Hut. (ASP), p.391.
12. Navarro, J.F. 2001. "Substructure in CDM Halos and the Heating of Stellar Disks". Proceedings of the Yale Symposium "The Shapes of Galaxies and their Halos", World Scientific Press, ed. P. Natarajan.
13. Navarro, J.F. 2001. "The Inner Structure of Cold Dark Matter Halos". Proceedings of IAU Symposium 208 "Astrophysical Supercomputing using Particles". PASP Conference Series. J.Makino & P.Hut, eds.
14. Navarro, J.F. 2003. "CDM Halos and LSB Rotation Curves". Proceedings of the Royal Society Scientific Discussion on "Dark Matter". Phil.Trans.R.Soc.London. A (2003) 361, 2515.
15. Navarro, J.F. 2004. "The Inner Density Cusps of Cold Dark Matter Halos". Proceedings of the IAU Symposium 220 "Dark Matter in Galaxies", eds. S.Ryder, D.J.Pisano, M.Walker, K.C.Freeman. PASP Conference Series, Vol 220, p.61.
16. Helmi, A., Navarro, J.F., Meza, A., Steinmetz, M., Eke, V.R. 2003. "On the Nature of the Ring-Like Structure in the Outer Galactic Disk". Proceedings of the Conference "Satellites and Tidal Streams", La Palma, Canary Islands. PASP Conference Series.
17. Navarro, J.F. 2004. "The Hierarchical Formation of the Galactic Disk". Proceedings of the Conference "Penetrating Bars through Masks of Cosmic Dust", South Africa, eds. D.Block and K.C.Freeman.
18. Sales, L., and 7 co-authors. "The rise and fall of disks in cosmological simulations", in Galaxy Formation: An International Conference, 2011gafo.confE, E59S.
19. Navarro, J.F. 2011. "Kinematic and Chemical Components in the Solar Neighbourhood". Proceedings of the Conference "Assembling the Puzzle of the Milky Way", Le Grand Bornand, France, ed. Celine Reyle.
20. Navarro, J.F., 2018. "Dwarf Galaxies as Cosmological Probes". Invited review at IAU Symposium 344, Dwarf Galaxies: From the Deep Universe to the Present. arXiv:1809.07431

21. Navarro, J.F., 2018. "The origin of galaxy scaling laws in LCDM". Contribution to the Proceedings of the Simons Conference "Illuminating Dark Matter", held in Kruen, Germany, in May 2018, eds. R. Essig, K. Zurek, J. Feng

**c. Books and chapters in books****d. Other publications**

1. Navarro, J.F., Lambas, D.G., and Sérsic, J.L., 1986. Dynamical Effects of Dark Matter in Systems of Galaxies, *Ap. Sp. Sci.*, **123**, 117.
2. Navarro, J.F. and Lambas, D.G., 1987. Dark Matter Influence on Velocity Dispersion Profiles of Clusters of Galaxies, *Ap. Sp. Sci.*, **133**, 241.
3. Navarro, J.F., 1992. Simulations of Dissipative Galaxy Formation in a Cold Dark Matter Universe, in *Structure, Dynamics and Chemical Evolution of Elliptical Galaxies*, Danziger, I.J., Zeilinger, W.W., and Kjær (eds.) (ESO Conference and Workshop Proceedings No. 45), page 385.
4. Navarro, J.F., 1992. Dynamics of the Baryonic Component in Hierarchically Clustering Universes, in *The Evolution of Galaxies and their Environment*, Hollenbach, D., Thronson, H., and Shull, J.M. (eds.) (NASA Conference Publication 3190), page 372.
5. Navarro, J.F., 1994. X-ray Clusters in the CDM Cosmogony, in *NATO ASI Cosmological Aspects of Clusters of Galaxies*, W. Seitter (ed.), (Kluwer: Dordrecht), page 313.
6. Navarro, J.F., 1995. The Structure of CDM Halos, in the Proceedings of the IAU Symposium 171, *New Light on Galaxy Evolution*, eds. R. Davies and R. Bender, (Kluwer: Dordrecht), page 255.
7. Navarro, J.F. 1998. The Cosmological Significance of Disk Galaxy Rotation Curves. Unpublished Manuscript. Available from [xxx.lanl.gov](http://xxx.lanl.gov) (astro-ph/9807084).
8. Siebert, A., and 34 co-authors, 2011. RAVE 3<sup>rd</sup> data release. VizieR Online Data Catalog. 2011yCat 3265, 0S.

**e. Presentations at conferences or institutions (since 2010)**

CIfAR Cosmology and Gravity Program Annual Meeting. Invited Participant and Speaker. Lake Louise, AB. February 2010.

Institut d'Astrophysique de Paris. Colloquium Speaker. Paris, France. April 2010.

University of British Columbia. Physics and Astronomy Department Colloquium Speaker. Vancouver, BC. April 2010.

Universidad Nacional de Córdoba, Argentina. Physics Colloquium Speaker. Córdoba, Argentina. May 2010.

University of Toronto. CITA@25 Symposium. Invited Participant. Toronto, ON. May 2010.

CIfAR Next Big Question. Invited Panelist. Vancouver, BC. May 2010.

Durham University, UK. Virgo Consortium Meeting. Invited Participant. Durham, UK. May 2010.

Harvard University Sackler Conference on Theoretical Astrophysics. Invited Speaker. Cambridge, MA, USA. May 2010.

Max-Planck Institute for Astrophysics. Meeting of the Aquila Collaboration. Convenor. Garching, Germany. May 2010.

Harvard University Astronomy Department. Colloquium Speaker. Cambridge, MA, USA. September 2010.

University of Minnesota Astronomy Department. Colloquium Speaker. Minneapolis, MN, USA. September 2010.

Virgo Consortium Meeting. Invited Participant. Heidelberg Institute of Theoretical Studies. Heidelberg, Germany. September 2010.

Potsdam Conference on Galaxy Evolution. Invited Speaker. Potsdam, Germany. May 2010.

Milky Way Conference. Universidad Andrés Bello. Invited Speaker. Santiago, Chile. October 2010.

Max-Planck Institute for Astrophysics. Meeting of the Aquila Collaboration. Convenor. Garching, Germany. November 2010.

Virgo Consortium Meeting. Leiden University. Invited Participant. Leiden Observatory, The Netherlands. November 2010.

Edinburgh University Astronomy Department. Colloquium Speaker. Edinburgh, Scotland. December 2010.

CIfAR Cosmology and Gravity Program Annual Meeting. Invited Participant. Whistler, BC, Canada. April 2011.

“Assembling the Puzzle of the Milky Way” Conference. Invited Speaker. Le Grand Bornand, France. April 2011.

Institute for Computational Cosmology. Seminar Speaker. Durham, UK. April 2011.

Max-Planck Institute for Astrophysics. Seminar Speaker. Garching, Germany. May 2011.

Córdoba Astronomical Observatory, Argentina. Lecture Series on Galaxy Formation. August 2011.

“Galaxies in the Dark” Conference, Cafayate, Salta, Argentina. Conference Organizer and Speaker. August 2011.

University of Córdoba, Argentina. Colloquium Speaker. March 2012.

CIIfAR Annual General Meeting, Cosmology and Gravity Program. Whistler, BC. Invited Speaker. April 2012.

University of Córdoba, Argentina. Seminar Speaker. August 2012.

COSMOCOMP Meeting. Invited Speaker. Trieste, Italy. September 2012.

Institute for Computational Cosmology. Durham University, UK. Colloquium Speaker. September 2012.

Universidad Autónoma de Madrid, Spain. Seminar Speaker. October 2012.

Instituto de Astrofísica de Andalucía, Granada, Spain. Seminar Speaker. October 2012.

Institut d’Estudis Espacials de Catalunya. Barcelona, Spain. Seminar Speaker. October 2012.

Massachusetts Institute of Technology, Cambridge, MA, USA. Seminar Speaker. November 2012.

University of Wisconsin, Madison, WI, USA. Colloquium Speaker. November 2012.

2013-01-08 "Cosmological Revolution", Café Scientifique, Canada, British Columbia, Victoria

2013-02-16 "The Baryonic Content of Dwarf Galaxy Haloes", CIIfAR Cosmology and Gravity Program Annual Meeting, Canada, Alberta, Banff

2013-03-08 "Dwarf Galaxies as Cosmological Probes", UC Berkeley Astrophysics Seminar, United States, California, Berkeley

2013-04-19 "Dwarf Galaxies and Cosmology", Université Laval Physics Colloquium, Canada, Quebec, Quebec City

2013-05-07 "Dwarf Galaxies in CLUES Simulations", The CLUES Symposium, Spain, Madrid

2013-05-29 "Cosmology and Dwarf Galaxies", Dartmouth College Astrophysics Colloquium, United States, New Hampshire, Hanover

2013-06-10 "The Origin of the NFW Profile", Virgo Consortium Meeting, Germany, Garching

2013-06-24 "The Predicted Structure of Dark Matter Haloes", Max Planck Galaxies and Haloes Conference, Germany, Garching.

March 2014 "The Cosmological Significance of Dwarf Galaxies", University of Michigan Colloquium. Ann Arbor, MI.

May 2014. Invited speaker at the CIFAR Annual meeting of the Cosmology and Gravity Program, Quebec City, QC, Canada.

July 2014. Invited talk at the IAU Symposium 311. Oxford University, UK.

August 2014. Invited talk at the Potsdam Thinkshop on Dwarf Galaxies. Potsdam, Germany.

September 2014. Invited talk at the Annual Meeting of the Argentine Astronomical Society. Córdoba, Argentina.

October 2014. Invited talk at the Annual Symposium of the Ecole Normale Supérieure. Paris, France.

October 2014. Astronomy Colloquium at the Physics and Astronomy Department, Bologna University, Italy.

November 2014. Astronomy Colloquium at the Kapteyn Institute, Groningen University, The Netherlands.

November 2014. Astronomy Seminar Speaker at the ITC Harvard, Cambridge, MA, USA.

December 2014. ESO-Max Planck Joint Astronomy Colloquium. Garching, Germany.

February 2015. Talk at the KITP Conference "Milky Way and its Stars", Santa Barbara, CA, USA.

February 2015. Astronomy Colloquium at UC Riverside, California, USA.

March 2015. Blackboard Lunch talk. KITP/UCSB, Santa Barbara, CA, USA.

March 2015. Physics Colloquium at Brown University, Providence, RI, USA.

April 2015. Astronomy Colloquium at Rutgers University, Piscataway, NJ, USA.

April 2015. Astronomy Colloquium at the University of Maryland, MD, USA.

April 2015. Blackboard Lunch Talk. KITP, UC Santa Barbara, USA

May 2015. Astronomy Colloquium. Royal Observatory Edinburgh, UK.

June 2015. Astronomy Seminar. MSSL, University College London, UK.

June 2015. Astronomy Colloquium. Aarhus University, Denmark.

July 2015. Talk at Virgo Consortium Meeting, Durham University, UK.

July 2015. Invited talk at the meeting “From observations to theory and back: 30 years of astrophysical research with Willy Benz”, Wengen, Switzerland.

March 2016. Invited talk at the Annual Meeting of the CIFAR Cosmology and Gravity Program. Whistler, BC, Canada.

August 2016. Invited Colloquium. Institute for Computational Cosmology. University of Durham, UK.

November 2016. Invited Colloquium. Physics Department. Vassar College, Poughkeepsie, NY, USA.

February 2017. Invited Talk. Annual Meeting of the Cosmology and Gravity Program of the Canadian Institute for Advanced Research. Lake Louise, Canada.

April 2017. Invited Seminar. Instituto de Astronomía Teórica y Experimental, Observatorio Nacional de Córdoba, Córdoba, Argentina.

May 2017. Invited Seminar. Perimeter Institute for Theoretical Physics. Waterloo, Ontario.

July 2017. Panelist. IAU 334 Symposium. Potsdam, Germany.

September 2017. Invited Seminar. Universidad Autónoma de Madrid. Spain

September 2017. Invited Talk at “Road to the Stars” conference. Santiago de Compostela, Spain.

September 2018. Invited Seminar. Universidad de Barcelona. Spain

October 2018. Invited Seminar. Universidad Autónoma de Barcelona. Spain.

October 2018. Invited Seminar. Universidad de Valencia, Spain.

November 2018. Invited Lunch Seminar. Columbia University.

December 2018. Invited Seminar. New York University.

December 2018. Contributed Talk at the “Distant Galaxies from the Far South” conference in Bariloche, Argentina.

January 2019. Invited Talk at the “Novel Ideas for Dark Matter 2019” workshop. Princeton University.

May 2019. Talk at the CIIfAR Annual Program Meeting of the “Gravity and the Extreme Universe” Program. Kelowna, BC.

July 2019. Invited Talk at the “Dark Side of the Universe 2019” conference in Buenos Aires, Argentina.

October 2019. Invited Talk at MPA Symposium on Dark Matter and Galaxy Formation. Garching, Germany

April 2020. Contributed Talk. HST Spring Symposium at Space Telescope Science Institute, Baltimore, MD, USA.

June 2020. Invited Talk. Annual Meting Gravity and the Extreme Universe Program. (Virtual series of Symposia)

September. Invited Colloquium. Department of Physics and Astronomy. University of British Columbia. Vancouver, BC.

November 2020. Invited Talk at Special Course Cycle at the National Observatory in Rio de Janeiro, Brazil.

December 2020. Invited Talk at 3rd ICTP-SIFR South American Dark Matter Workshop. Sao Paulo, Brazil.

April 2021. Invited Talk at “Friends of Friends” Meeting. Observatorio Astronómico, Córdoba, Argentina.

August 2021. Invited Talk at the Annual Meeting of the CIIfAR Gravity and the Extreme Universe Program. Online.

September 2021. Invited Talk at “Ciclo Descubriendo la Ciencia”. Argentine National Academy of Sciences. Online.

October 2021. Invited Talk “Sarmiento-Gould Conference”. Observatorio Astronómico Córdoba, Argentina. Online.

November 2021. Invited Talk at British-German WE-Heraeus-Seminar "Astrophysical Windows on Dark Matter" held at the Royal Society (Room: Kohn Centre) in London from 3 - 5 November 2021. Online

April 2022. Invited Talk at the Annual Meeting of the CIIfAR Gravity and the Extreme Universe Program. Montreal, QC, Canada

June 2022. Presentation at the “Gaia Hike” meeting. UBC, Vancouver, Canada.

July 2022. Invited Seminar. Max-Planck Institute for Astrophysics. Garching, Germany

September 2022. Lecture Series at the Plinio Cosmology School. Vitoria, ES, Brazil.

September 2022. Invited Talk at the Conference “KFC@80” in Perth, Australia. (declined)

October 2022. Invited Seminar at Institute for Theoretical and Experimental Astronomy, Universidad Nacional de Córdoba, Argentina.

October 2022. Invited Colloquium at Institute of Astronomy and Space Physics, Universidad Nacional de Buenos Aires, Argentina.

November 2022. Talk at ITC group meeting. Harvard University.

February 2023. Talk at the Weinberg Institute, University of Texas at Austin, Austin, TX, USA

April 2023. Invited talk at the Annual Meeting of the CfAR Gravity and the Extreme Universe Program. Cranmore, AB, Canada.

May 2023. Talk at the Kavli Institute for Cosmological Physics, University of Chicago, Chicago, IL, USA

June 2023. Colloquium at the Central European Institute for Cosmology and Fundamental Physics (CEICO).

July 2023. Invited talk at the conference “Fiat Lux”, Castelgandolfo, Italy.

July 2023. Talk at the SIDM workshop at the Pollica Physics Centre.

October 2023. Invited seminar at Universidad Autónoma de Madrid (Spain).

October 2023. Colloquium at Universidad Complutense de Madrid (Spain).

December 2023. Invited talk at the 4th Regional Extragalactic Meeting: “60 Years of the Sérsic Law”. Córdoba, Argentina.

## 7. SERVICE and PROFESSIONAL ACTIVITIES

### a. University and Faculty committees

### b. Departmental committees and responsibilities

- 1998-99: Petrie Fellowship and Publicity/Web Committees
- 1999-00: Petrie Fellowship and Publicity/Web Committees
- 2000-03: Petrie Fellowship Committee
- 2002-03: Library Committee
- 2003-04: Departmental Strategic Plan Task Force Member, Library Committee, Petrie Fellowship
- 2004-05: Study Leave
- 2005-06: Library Committee, Petrie Fellowship
- 2006-07: Library Committee, Petrie Fellowship
- 2007-08: On Leave at the University of Massachusetts, Amherst.
- 2008-09: Library Committee, Petrie Fellowship, Undergraduate Award Committee.
- 2009-10: Library Committee, Petrie Fellowship, Undergraduate Award Committee.
- 2010-11: Graduate Curriculum, Petrie Fellowship, Undergraduate Award Committee, Faculty of Science Research Advisory Committee, Senate Award Committee.
- 2011-12: Graduate Curriculum, Petrie Fellowship, Undergraduate Award Committee, Faculty of Science Research Advisory Committee, Senate Award Committee.
- 2012-13: Graduate Curriculum, Petrie Fellowship, Undergraduate Award Committee, Faculty of Science Research Advisory Committee, Physics and Astronomy Chair Search Committee.
- 2013-14: Petrie Fellowship, Undergraduate Award Committee.
- 2015-16: Graduate Award Committee, Faculty of Science Research Advisory Committee, Astronomy Faculty Search Committee.
- 2016-17: Graduate Award Committee, Faculty of Science Research Advisory Committee, Astronomy Faculty Search Committee.
- 2017-18: Graduate Award Committee, Faculty of Science Research Advisory Committee, Astronomy Faculty Search Committee.
- 2018-19: Graduate Award Committee (Chair), Departmental ARPT Committee.

- 2018-19: Graduate Award Committee (Chair), Departmental ARPT Committee.
- 2019-20: Graduate Award Committee (Chair), Departmental ARPT Committee. Computing Review Committee.
- 2020-21: Graduate Award Committee (Chair), Departmental RCPT Committee.
- 2021-22: Graduate Award Committee (Chair), Departmental RCPT Committee.
- 2022-23: Graduate Award Committee (Chair), Departmental RCPT Committee.
- 2023-24: Departmental RCPT Committee.

**c. Membership and service on international, national and provincial bodies and societies**

- Member of the Senate Committee on Academic Standards. University of Victoria. 2022-2024
- Member at Large, Faculty of Science. University of Victoria Senate. September 2021-August 2023
- Member of the Fellow Selection Committee. Royal Society of Canada (2018-2021)
- Member of the Tri-Council Banting Fellowship Selection Committee (2018-2021)
- Member of the governing Council of the Canadian Institute for Theoretical Astrophysics (CITA). 2014-2017.
- Member of the Rutherford Medal and of the McNeil Medal Committees of the Royal Society of Canada (2013-2015)
- Member of the Selection Committee for the Gruber Prize in Cosmology (2008-2013)
- Member of the governing Council of the Canadian Institute for Theoretical Astrophysics (CITA). 2006-2008.
- 2006-2008 - Member of the Natural Sciences and Engineering Research Council's (NSERC) Grant Selection Committee (GSC 17, Astronomy and Space Sciences).
- 2004- Executive Board Member: Radial Velocity Experiment (RAVE) Consortium.
- Executive Committee Member. CIFAR Cosmology and Gravity Program. 2002-2007.
- Member of the governing Council of the Canadian Institute for Theoretical Astrophysics (CITA). 2001-2004.
- 1998-2001 – Member of the Natural Sciences and Engineering Research Council's (NSERC) Scholarships and Fellowships Committee.
- International Astronomical Union (Member)
- Canadian Institute for Theoretical Astrophysics, Inc. (Member)
- Canadian Astronomical Society (Member)
- Canadian Association of Physicists (Member)
- American Astronomical Society (Full Member)

**d. Conference organisational committees**

- August 2000 - Organizer of VC3: the Victoria Computational Cosmology Conference.
- June 2002 - Organizer of the Annual Meeting of the Cosmology and Gravity Program of the Canadian Institute for Advanced Research.
- November 2003 – Organizer of BIRS Workshop on “Galaxy Formation: A Herculean Challenge”. Banff, AB.
- July 2007 – Vatican Symposium on “Disk Galaxies” Scientific Organizing Committee.

- December 2010 – Tracing the Ancestry of Galaxies. IAU Symposium 277. Ouagadougou, Burkina Faso. Scientific Organizing Committee.
- May 2011 – “Stellar Lives” Symposium. Victoria, BC. Member of the Organizing Committee.
- August 2011 – Galaxies in the Dark. Cafayate, Argentina. Head of the Scientific Organizing Committee.
- February-April 2011 – “Faint Galaxies and Faint Dwarfs” KITP Workshop. Member of the Organizing Committee
- February 2011 – “First Light and Faintest Dwarfs” KITP Conference. Head of the Organizing Committee.
- May 2013 – IAU Symposium 298 “Setting the Scene for GAIA and LAMOST”. Lijiang, China. Member of the Scientific Organizing Committee.
- June 2013 – MPA/MPE/ESO/EC Joint Conference “The Physical Link Between Galaxies and Their Halos”. Garching, Germany. Member of the Scientific Organizing Committee.
- June 2014 – Aspen Workshop “Dwarf Galaxies as Cosmological Probes”. Aspen, CO, USA.
- July 2015. International Workshop “From observations to theory and back: 30 years of research with Willy Benz”. Wengen, Switzerland.
- August 2015 – RAVE Consortium Annual Meeting. University of Victoria. Victoria, BC, Canada.
- October 2016 - Northwest Astronomy Meeting. Western Washington University. Bellingham, WA, USA.
- July 2017 – IAU Symposium 334 “Rediscovering Our Galaxy”. Potsdam, Germany.
- April 2018 – UCSB-KITP Workshop “The Small Scale Structure of Cold(?) Dark Matter. Santa Barbara, CA, USA.
- June 2022. UBC Gaia Workshop.
- April 2023. Werner Israel Memorial Symposium. UVic.

#### e. Grant committees

- National Science Foundation. Accretion, Gas Dynamics and MHD (Theory) Panel. June 2002.
- National Science Foundation. Accretion, Extragalactic Astronomy (Theory) Panel. February 2003.
- National Science Foundation. Extragalactic Astronomy Panel (Theory). February 2004.
- NSERC. Grant Selection Committee 17. 2005-2008.
- NASA. Einstein Fellowships Selection Committee. 2015.
- NASA. Hubble Space Telescope Time Allocation Committee. October 2018.
- National Science Foundation. Extragalactic Astronomy Panel. April 2019.

#### f. Grant proposals reviewed

Numerous grant proposals reviewed for the following agencies:

- FONDECYT (the Chilean National Science Foundation)
- PPARC (the UK Particle Physics and Astronomy Research Council)
- ISF (the Israeli Science Foundation)
- BSF (the US/Israel Binational Science Foundation)

- NYU (New York University)
- The Leverhulme Trust (United Kingdom)
- NSF (The US National Science Foundation)
- NOW (the Netherlands Organization for Scientific Research)
- INAF (Istituto Nazionale d'Astrofisica, Italy)
- NSERC (Natural Sciences and Engineering Research Council, Canada)
- The Swiss National Science Foundation
- DFG: the German Research Foundation (Deutsche Forschungsgemeinschaft)
- European Research Council

Numerous proposals for telescope time reviewed for:

- CFHT (Canada-France-Hawaii Telescope Corporation)
- PPARC (the UK Particle Physics and Astronomy Research Council)
- STScI (the Space Telescope Science Institute, Cycles 10 and 13)
- Gemini Telescope Corporation

#### **g. Visiting scientists hosted**

Dr. Mario Abadi, University of Cordoba, Argentina. December 1999 and October 2001.

Prof. Carlos Frenk. University of Durham. July 1999.

Prof. Simon White. Max-Planck Institute for Astrophysics. 1999 Lansdowne Lecturer

Dr. Max Pettini. Cambridge University. June 2000.

Prof. Matthias Steinmetz. University of Arizona. August 1999.

Dr. Andres Meza. Universidad Catolica de Chile. Nov 2000-Sept 2003.

Prof. Richard Ellis. Caltech. October 2001. Lansdowne Lecturer.

Prof. Simon White. Max-Planck Institute for Astrophysics. August 2002

Prof. Guinevere Kauffmann. Max-Planck Institute for Astrophysics. August 2002.

Prof. Avishai Dekel. The Hebrew University of Jerusalem. August 2004.

Prof. Joel Primack. University of California Santa Cruz. September 2004.

Prof. Heather Morrison. Case Western Reserve University. February 2005.

Prof. Mario Abadi. Universidad de Córdoba, Argentina. October 2005 and February 2006.

Dr. Christopher Pfrommer, CITA, U. of Toronto. March 2006.

Dr. Oleg Gnedin. Ohio State University, October 2006.

Dr. Stelios Kazantzidis. Stanford University. May 2007.

Prof. Rob Thacker. St. Mary's University. December 2008.

Dr. Mario Abadi. Universidad Nacional de Córdoba, Argentina. February 2009.

Dr. Elena Rossi. Hebrew University of Jerusalem. March 2009.

Dr. Mario Abadi. Córdoba University. February 2010.

Dr. Mario Abadi. Córdoba University. January 2011.

Dr. Gabriela González. Louisiana State University. February 2011.

Dr. Andrew Cumming. McGill University. March 2011.

Dr. Anna Frebel. Harvard-Smithsonian Center for Astrophysics. June 2011.

Dr. Sarah Loebman. University of Washington. September 2011.

- Dr. Hugo Martel. Université Laval. September 2011.  
Dr. Aaron Ludlow. Bonn University. October 2011.  
Dr. Elena D'Onghia. Harvard-Smithsonian Center for Astrophysics. November 2011.  
Dr. Laura Sales. Max-Plack Institute for Astrophysics. November 2011.  
Dr. Daniel Thomas. Imperial College London, UK. November 2011  
Dr. Mario Abadi. Universidad de Córdoba, Argentina. November 2011.  
Dr. Andrés Meza. Universidad Andrés Bello. Santiago, Chile. November 2011.  
Dr. Elena D'Onghia. Harvard-Smithsonian Center for Astrophysics. January 2012.  
Dr. Martin Bureau. Oxford University. February 2012.  
Dr. Tommaso Treu. University of California Santa Barbara. March 2012.  
Dr. Giuseppina Battaglia. European Southern Observatory/University of Bologna. June 2012.  
Dr. Thomas Yue. University of Nottingham, UK. January 2013.  
Dr. Michelle Collins. Max-Planck Institute for Astronomy, Heidelberg, Germany. Sept 2013.  
Prof. Riccardo Giovanelli. Cornell University, USA. October 2013.  
Prof. George Lake. University of Zurich, Switzerland. November 2013.  
Dr. Elena Gavagnin. University of Zurich, Switzerland. November 2013.  
Dr. Arianna di Cintio. Universidad Autónoma de Madrid, Spain. November 2013-February 2014.  
Dr. Nicola Amorisco. DARK Institute, Copenhagen, Denmark. December 2013.  
Dr. Robyn Sanderson. Groningen University, The Netherlands. December 2013.  
Dr. Elena D'Onghia. University of Wisconsin, USA. January 2014  
Dr. Matthias Steinmetz. AIP Potsdam, Germany. March 2014  
Mr. Pim van Oirschot. Groningen University, The Netherlands. March 2014.  
Dr. Robert Braun. Jodrell Bank Observatory, UK. April 2014  
Dr. Jorge Peñarrubia. Royal Observatory of Edinburgh, UK. April 2014.  
Dr. Carlos Vera-Ciro. University of Wisconsin, Madison, WI, USA. April 2014.  
Dr. Doron Lemze. Johns Hopkins University, Baltimore, MD, USA. May 2014.  
Dr. Geraint Lewis. The University of Sydney. Sydney, Australia. June 2014.  
RAVE Consortium Meeting. August 2015.  
Dr. John Kormendy. University of Texas. October 2015.  
Dr. Chris Hayward. Caltech. November 2015.  
Dr. Shantanu Basu. University of Western Ontario. December 2015.  
Dr. Sarah Martell. University of New South Wales. December 2015.  
Dr. Gwen Eadie. McMaster University. September 2016.  
Dr. Matthew Taylor. Pontificia Universidad Católica de Chile. September 2016.  
Dr. Laura Sales. University of California Riverside. September 2016.  
Dr. Elena D'Onghia. University of Wisconsin at Madison. October 2016.  
Dr. Nicolas Martin. University of Strasbourg. May 2017.  
Dr. Pascal Elahi. University of Western Australia. May 2017.  
Dr. Justin Read. University of Surrey. August 2017.  
Dr. Oleg Gnedin. University of Michigan. August 2017.  
Dr. Mike Boylan-Kolchin. University of Texas. August 2017.  
Dr. Alejandro Benítez-Llambay. Durham University. March 2019.  
Dr. Yuan-Sen Ting. Princeton University. March 2019.

Prof. Carlos Frenk. Durham University. March 2019.

Prof. Isabel Pérez. University of Granada. January-March 2023.

Prof. Aaron Ludlow. ICRAR. University of Western Australia. November 2023.

Prof. Isabel Pérez. University of Granada. January-March 2023.

**h. Editorships**

Field Chief Editor. Frontiers of Astronomy and Space Science. 2019-ongoing

**i. Reviews for journals, book reviews, published commentaries**

Referee for the following journals and publications:

- The Astrophysical Journal (Main Journal and Letters)
- The Astronomical Journal
- Monthly Notices of the Royal Astronomical Society
- Astronomy and Astrophysics
- Nature
- Science
- Publications of the Astronomical Society of Japan
- Publications of the Astronomical Society of the Pacific
- Revista Mexicana de Astronomía y Astrofísica.
- Physical Review Letters
- Reviews of Modern Physics
- Journal of Cosmology and Astroparticle Physics

**j. Other professional activities**

Fall 1996 – Spring 1997: Organizer of the Joint Steward/NOAO Colloquium Series.

April 1997: External Examiner, Thesis Tribunal for María Angeles Gómez-Flechoso. Universidad Autónoma de Madrid. Departamento de Física Teórica.

Various public lectures in the Victoria area for the University of Victoria Speakers Bureau.

Fall 2020. Hundreds of radio, TV and newspaper interviews on occasion of being awarded the Clarivate Analytics Citation laureate distinction.

Dozens of public lectures delivered in Canada, USA, Spain, and Argentina.