

Laura Cadonati – Curriculum Vitae

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I Professional Preparation

Università degli Studi di Milano	Milano, Italy	Physics	Laurea 1995
Princeton University	Princeton, NJ	Physics	M.A. 1998, Ph.D. 2001
Princeton University	Princeton, NJ	Physics	Postdoc 2001 – 2002
Massachusetts Institute of Technology	Cambridge, MA	Physics	Postdoc 2002 – 2004

II Appointments

2021 – current	Associate Dean for Research	College of Sciences, Georgia Tech
2017 – current	Professor	Georgia Institute of Technology
2020 – 2021	Director	Center for Relativistic Astrophysics, Georgia Tech
2015 – 2017	Associate Professor	Georgia Institute of Technology
2014 – 2014	Visiting Scholar	Cardiff University
2012 – 2015	Associate Professor	University of Massachusetts Amherst
2007 – 2012	Assistant Professor	University of Massachusetts Amherst
2005 – 2007	Research Scientist	Massachusetts Institute of Technology

III Honors and Awards

individual:

2018 GeorgiaTech Outstanding Faculty Research Author Award
2016 Atlantic Coast Conference (ACC) Academic Consortium Distinguished Lecturer
2015 Fellow of the American Physical Society
2014 Elected Chair-line of APS Topical Group on Gravitation (now Division of Gravity)
2010 Elected Member at Large APS Topical Group on Gravitation
2010 National Science Foundation (NSF) CAREER award

as a member of the LIGO Scientific Collaboration (LSC):

2017 Physics World Breakthrough of the Year
2017 Bruno Rossi Prize
2017 UK Royal Astronomical Society Group Achievement Award
2017 Princess of Asturias Award for Technical and Scientific Research
2016 Physics World Breakthrough of the Year
2016 Gruber Cosmology Prize, awarded to the LIGO Scientific Collaboration
2016 Breakthrough Prize in Fundamental Physics

IV Products

Google scholar profile at <https://goo.gl/9NTB4v>

Five selected publications

1. LIGO Scientific Collaboration and Virgo Collaboration. *GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo During the First Half of the Third Observing Run*, Phys. Rev. X 11, 021053 (2021)
2. LIGO Scientific Collaboration and Virgo Collaboration. *GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral*, Phys. Rev. Lett. 119, 161101 (2017).
3. LIGO Scientific Collaboration, Virgo Collaboration and astronomy partners. *Multi-messenger Observations of a Binary Neutron Star Merger*, The Astrophysical Journal Letters, 848, L12 (2017).
4. LIGO Scientific Collaboration and Virgo Collaboration. *Observation of Gravitational Waves from a Binary Black Hole Merger*, Phys. Rev. Lett. 116, 061102 (2016).
5. LIGO Scientific Collaboration and Virgo Collaboration. *Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914*, Class. Quant. Grav. 33, 134001 (2016).
6. LIGO Scientific Collaboration and Virgo Collaboration. *GW150914: The Advanced LIGO Detectors in the Era of First Discoveries*, Phys. Rev. Lett. 116, 131103 (2016).

Five other significant publications

1. LIGO Scientific Collaboration and Virgo Collaboration. *Observing gravitational-wave transient GW150914 with minimal assumptions*, Phys. Rev. D 93, 122004 (2016).
2. S. Fischetti, J. Healy, L. Cadonati, L. London, S. Mohapatra, D. Shoemaker. *Exploring the Use of Numerical Relativity Waveforms in Burst Analysis of Precessing Black Hole Mergers*, Phys. Rev. D 83, 044019 (2011).
3. J. Clark, A. Bauswein, L. Cadonati, H.-T. Janka, C. Pankow, N. Stergioulas. *Prospects For High Frequency Burst Searches Following Binary Neutron Star Coalescence With Advanced Gravitational Wave Detectors*, Phys. Rev. D 90, 062004 (2014).
4. The NINJA Collaboration. *The NINJA-2 catalog of hybrid post-Newtonian / numerical-relativity waveforms for non-precessing black-hole binaries*, Class. Quant. Grav. 29, 124001 (2012).
5. LIGO Scientific Collaboration and Virgo Collaboration. *Implications for the Origin of GRB 051103 from LIGO Observations*, Astrophys. J. 755, 2, (2012).

V Synergistic Activities

- **Collaboration membership:** LIGO Scientific Collaboration (2002-current); Borexino Collaboration (2007-2014); the DarkSide Collaboration (2010-2014).
- **Selected roles in the LIGO Scientific Collaboration:** Deputy Spokesperson (2017–2019); Data Analysis Council Chair (2013–2017); Chair of the Division of Collaboration Standards and Services (2020–2022); Burst Analysis Group co-chair (2010–2013)
- **Decadal Surveys:** 2021 Snowmass Underground Facilities Frontier (gravity liaison); NAS ASTRO2020 Panel of Particle Astrophysics and Gravity (co-chair)
- **Advisory Boards** SNOLab Experiment Advisory Committee (2018–2022); NanoGrav Advisory Board (2017–2023); Veritas External Science Advisory Committee (2017–2022)

- **Journals:** Advisory Board of Classical and Quantum Gravity Journal (2016–current); Associate Editor for the European Journal of Physics C (2021–current).
- **Invited presentations:** Since 2015, 22 invited presentations at conferences and workshops, 29 invited colloquia and seminars at universities and institutes.
- **Conference Organization:** contributed to 33 conferences and workshops, participating to one or more of scientific organizing committee, local organizing committee, international advisory committee or as a session chair.
- **Professional Societies Leadership:** elected Chair line for the Division of Gravitation (DGRAV) of the American Physical Society (2014–2017)
- **Peer Reviewing:** Reviewer for the journals: Classical and Quantum Gravity, American Journal of Physics, Physical Review D, The Astrophysical Journal. Ad-hoc reviewer and panelist for NSF proposals. Ad-hoc reviewer for NASA proposals.

Professional Appointments and Service to the Scientific Community

2020–2022	LIGO Scientific Collaboration, Chair of the Division of Collaboration Standards and Services
2019–current	LIGO Scientific Collaboration Editorial Board
2019–2020	Search Committee for the Lead Editor of the journal Phys Rev D
2018–2020	LIGO Scientific Collaboration Bylaws Committee
2017–2019	Deputy Spokesperson of the LIGO Scientific Collaboration
2016–2017	Observational-era Revision Committee (ORC) for the LIGO Scientific Collaboration
2013–2017	Chair of the LIGO-Virgo Data Analysis Council
2013–2019	LIGO-Virgo Joint Run Planning Committee
2012–2019	LIGO Scientific Collaboration Executive Committee
2011–2018	LIGO Memorandum of Understanding (MOU) Review Committee
2012–2013	Chair of the Nominating Committee for the APS Topical Group on Gravity
2010–2013	Elected co-chair of the LIGO-Virgo Burst Analysis group
2010–2013	Elected member-at-large of the Executive Committee for the Topical Group on Gravity of the American Physical Society
2009–2013	Institutional Board for the Borexino experiment
2009–2013	LIGO Academic Advisory Council
2008–2009	Elected technical advisor to the LIGO Oversight Committee
2007–2009	Elected member-at-large of the LSC Executive Committee
2006–2009	LIGO Scientific Collaboration Publication and Presentation Committee (Chair, 2007–2008)
2006–2009	Compact Binary Coalescence Analysis Review Committee