

# Curriculum Vitae

Gabriela González  
Lic., Córdoba University, Argentina, 1988  
Ph.D., Syracuse University, USA, 1995

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## Personal Information

**Email:** gonzalez@lsu.edu

**Date and place of birth:** February 24th, 1965, Córdoba, Argentina.

**Nationality:** U.S. citizen

**Address:**

Louisiana State University  
Department of Physics and Astronomy  
202 Nicholson Hall, Tower Drive  
Baton Rouge, Louisiana 70803-4001

## Academic Positions held

- August 2008 - present: Professor, Louisiana State University
- 2004 - 2008: Associate Professor, Louisiana State University.
- 2001-2004: Assistant Professor, Louisiana State University.
- 1998-2001: Assistant Professor, The Pennsylvania State University.
- 1995-1997: Research Scientist at Center for Space Research, Massachusetts Institute of Technology (LIGO Project).

## Honors and Awards

- 2016, Jesse W. Beams award, Southeastern Section of American Physical Society.
- 2016, “Scientist of the year”, HENAAC award, awarded by GISM (Great Minds in STEM) organization.
- 2016, Manne Siegbahn medal, AlbaNova University Center, Stockholm.
- 2016, Gruber Cosmology Prize (awarded to Ronald W. P. Drever, Kip Thorne, Rainer Weiss and the LIGO Discovery Team).
- 2016 “Pioneer in Science”, World Science Festival, New York City.

- 2016, Distinction “Brigadier General Juan Bautista Bustos, awarded by Córdoba state government.
- 2016, Special Breakthrough Prize In Fundamental Physics Awarded For Detection Of Gravitational Waves 100 Years After Albert Einstein Predicted Their Existence (prize shared between LIGO founders Ronald W. P. Drever, Kip S. Thorne and Rainer Weiss and 1012 contributors to the discovery).
- 2014, American Physical Society Woman Physicist of the Month (Jan 2014)
- 2010 Fellow, International Society of General Relativity and Gravitation
- 2008, 2009 LSU Rainmaker (given to top 100 LSU faculty)
- 2007 Fellow, American Physical Society.
- 2007 Edward A. Bouchet Award, American Physical Society
- 2004-2012 Fellow, Institute of Physics.
- 2001 Woman speaker of the year (Australian Institute of Physics).
- 2001 Awardee of Woodrow Wilson Fellowship (Career Enhancement Fellowship for Junior Faculty from Underrepresented Groups).
- 1988 University Prize, Córdoba University, Argentina.

## Advised Students, Postdocs

Past graduate students and current positions: Andres Rodriguez (MS, 2007, NOV Tuboscope software engineer), Chad Hanna (PhD, 2008, Penn State Assistant professor), Jacob Slutsky (PhD, 2010, NASA GSFC postdoc), Jeffrey Kissel (PhD, 2010, LIGO Hanford Observatory Controls Engineer), Tobin Fricke (PhD, 2011, Control Systems Engineer, Google), Sarah Caudill (PhD, 2012, University of Wisconsin-Milwaukee, postdoc), Anamaria Effler (PhD, 2015, Caltech postdoc at LIGO Livingston)

Current graduate students: Marissa Walker, Thomas Abbott, Christopher Buchanan, Terra Hardwick

Advised postdocs and current positions: Mark Beilby (Willamette University); Vijay Chickarmane (Data Scientist, Deloitte); Alexander Dietz (Test manager, GARAIO AG); Romain Gouaty (LAPP/CNRS Research Scientist); Myungkee Sung (Baton Rouge Community College, professor), Cesar Costa (Centre for Space Research scientist, Sao Jose, Brazil), Adam Mullavey (LIGO Livingston Observatory Staff Scientist), Keiko Kokeyama (ICRR scientist, Tokyo), Duncan Mcleod (LSU, current postdoc), Marie Kaspracz (LSU, current postdoc).

## Community and Professional Service

- 2011-present Elected spokesperson of the LIGO Scientific Collaboration (LSC, [www.ligo.org](http://www.ligo.org)).
- Other LSC positions held: Council member (1998-present); Chair of LSC Detector Characterization Committee (2008-11); Elected Member of the LSC Executive Committee (2006-08); Co-chair (with P. Brady, University of Milwaukee at Wisconsin, and Frederique Marion, Anecy) of the LSC-Virgo Collaborations working group searching for gravitational waves from Compact Binary Coalescences (2000-2007).

- 2011-2015 Member of Astrophysics Subcommittee of NASA National Advisory Council.
- 2010-2011 Chair, Search Committee for LIGO Executive Director, appointed by Caltech and MIT.
- 2008-2011, Elected Secretary-Treasurer, Topical Group on Gravitation of the American Physical Society (APS).
- 2009-2010 Member, Program Prioritization Panel on Particle Astrophysics and Gravity, Astro2010 Decadal Survey, organized by National Academy of Sciences.
- 2003-2011 Member of the Editorial Board of Classical and Quantum Gravity (Institute of Physics).
- 2008 Chair of the GWIC (Gravitational Waves International Committee) 2008 Thesis Prize Committee.
- 2007 Member of the 2008 APS Bouchet Award Selection Committee.
- Reviewer for the National Science Foundation, NASA, the Louisiana Board of Regents, the Institute of Physics, Spanish “Agencia Nacional de Evaluación y Prospectiva” and Australian Research Council.
- Reviewer for Physical Review and Classical and Quantum Gravity scientific journals.
- Member of Scientific Organizing Committees of: IAU Symposium ”New Frontiers in Black Hole Astrophysics”, Ljubljana, Slovenia, Sep 12-16 2016; Tenth LISA Symposium, Gainesville, FL, May 2014; Gravitational Wave Physics and Astronomy Workshop, Pune, India, 2013; 26th Texas Symposium on Relativistic Astrophysics, 2012, Sao Paulo, Brazil; Meeting General Relativity and Gravitation Meeting, 2010, Mexico City; International Conference on Gravitation and Cosmology, ICGC-2007, Pune, India; Gravitational Waves Data Analysis Workshop, Annecy, France, Dec 2004 and Brownsville, TX, Dec 2005; SPIE Conference on *Fluctuations and Noise in Photonics and Quantum Optics* 2003 and 2004 ; Amaldi Meeting on Gravitational Waves, Caltech, July 1999.

## University Service

- 2014 member, Program Degree Review Committee, Geography and Anthropology Department
- 2008-2011 Member, Louisiana State University University Council on Women.
- 2007-2009; 2010-2012 Elected member of the Steering Committee, Department of Physics and Astronomy.
- 2004-2009 Member of the Program Review Council, Louisiana State University.
- 2004-2007 Elected Member of the College Policy Committee, College of Basic Sciences.

## Current and Past Funding

- National Science Foundation Award PHY-1505779 “Instrument Development and Data Analysis for LIGO”, 2015-2018, \$1,075,000, Principal Investigator: Gabriela González.
- National Science Foundation Award PHY-1205882 “Instrument Development and Data Analysis for LIGO”, 2012-2015, \$1,175,500, Principal Investigator: Gabriela González.

- National Science Foundation Award PHY-1104371, “Data Handling and Analysis Infrastructure for Advanced LIGO and Beyond”, \$9,000,000, PI: Patrick Brady, University of Wisconsin at Milwaukee; with subaward to LSU: \$625,000, 2011-2016 (Gonzalez is Senior investigator).
- California Institute of Technology subaward, “Support of Advanced LIGO Upgrade”, \$219,396, 2011-2014.
- National Science Foundation Award PHY-0905184, “Instrument Development and Data Analysis in LIGO” (FY 09: \$535,000, FY 10: \$535,000, FY11: \$535,000). Principal Investigator: Gabriela González, Co-PIs: J. Giaime, Warren Johnson (Louisiana State University).
- National Science Foundation Award PHY-0605496, “Instrument development and data analysis in LIGO” (2006/7: \$220,000, FY 07: \$445,000, FY 08: \$445,000). Principal Investigator: Gabriela González, Co-PIs: J. Giaime, Warren Johnson (Louisiana State University).
- National Science Foundation Award PHY-0355289, “Research on Gravitational Wave Detectors” (2004/5: \$204,571, 2005/6: \$209,654, 2006/7: \$214,992). PI: G. González (Louisiana State University).
- National Science Foundation Award PHY-0135389, “Research on Gravitational Wave Detectors”, (2001/2: \$219,750, 2002/3: \$224,000, 2003/4: \$229,000). PI: G. González (Louisiana State University).
- Program opportunities for Women in Research and Education Award PHY-#9973783, National Science Foundation (\$64,883). PI: G. González (The Pennsylvania State University).
- National Science Foundation Award #9870032 (1998/9: \$150,000, 1999/2000: \$120,000, 2000/01: \$120,000). PI: G. González (The Pennsylvania State University).

## Professional Memberships

Member of the American Physical Society, American Association for the Advancement of Science, International Society for General Relativity and Gravitation, American Association of University Women, American Women in Science, Argentinian Physics Association, American Association of University Professors, National Society of Hispanic Physicists, National Society of Black Physicists.

## Selected Recent Invited Talks

- *Observation of Gravitational Waves*, Robert M. Walker Distinguished Lecture, Washington University in St Louis, MO, Nov 17, 2016
- *Detecting gravitational waves from black holes*, Public talk), ICTP-SAI FR 5th Anniversary Symposium: Advancement of Science in South America, Sao Paulo, Brazil, Nov 6 2016
- *Observation of Gravitational Waves: A Team Effort*, APS National Mentoring Community Conference, Houston, TX, Oct 22, 2016
- *Searching for and finding! gravitational waves*, Manne Siegbahn Memorial Lecture, Stockholm, Sweden, Oct 20 2016
- *Detecting ripples in space time*, Keynote talk at the SACNAS (Society for the Advancement of Chicanos and Native Americans) 2016 conference, long Beach, CA, Oct 15, 2016
- *Detección de ondas gravitacionales*, Argentinian Physics Association meeting, Tucumán, Argentina, Oct 5 2016

- *Detecting ripples in space time*, Distinguished Scientist Lecture, (public talk), Trinity University, September 26, 2016
- *Searching for and finding! gravitational waves*, Los Alamos National Laboratory Director's Colloquium, Los Alamos, NM, Sep 20, 2016
- *Searching for and finding! gravitational waves*, GR21 plenary talk, Columbia University, New York, NY, July 12, 2016
- *La detección de ondas gravitacionales* (public talk), Colegio Nacional, Mexico City, Mexico, Jul 1 2016
- *Observation of Gravitational Waves*, Kavli Foundation Lecture, AAS 228th meeting, San Diego, CA June 12 2016
- *Detection of Gravitational Waves*, National Academy of Sciences Annual Meeting, May 1, 2016, Washington, DC
- *Detection of Gravitational Waves*, Colloquium, University of California - Santa Cruz, CA, Apr 21, 2016
- *GW150914: Observation of gravitational waves from a binary black hole system*, Canadian Institute for Advanced Research's Annual Cosmology and Gravity Program Meeting, Whistler, BC, Canada, March 31, 2016
- *Searching for Gravitational Waves*, Special lecture, AAAS meeting, Washington, DC, Feb 12 2016
- *The LIGO Scientific Collaboration*, AAAS session on Megascience Global Projects Seeded in Europe, Asia, and the United States, Washington, DC, Feb 12 2016
- *Catching Einstein's waves*, LSU Science Cafe, Baton Rouge, LA, July 28 2015
- *Searching for gravitational waves*, General Relativity and Gravitation: A centennial perspective, Penn State, June 12, 2015
- *Gravitational Waves: Einstein's astrophysical messengers*, World Science Festival, Lecture for World Science "U" for a day, New York City, May 31, 2015.
- *Reality since Einstein*, panel discussion hosted by Brian Greene at World Science Festival, New York City, May 29, 2015.
- *Einstein's GR at 100: LIGO-enabled Science*, Talk at Advanced LIGO Dedication, LIGO Hanford Observatory, May 19, 2015.
- *Status of Advanced Detectors*, Workshop on the LIGO-Virgo Electromagnetic Follow-up program, Cascina, Italy, April 23 2015
- *The LIGO Scientific Collaboration*, APS session on Models of International Partnership, Baltimore, MD, April 13 2015.
- *Opening the Gravitational Wave Window*, Colloquium, Texas A& M University Physics and Astronomy Department, November 6 2014
- *LIGO and its Scientific Collaboration*, National Science Foundation "Gravity Principal Investigator Day", Arlington, VA, October 2 2014

- *Big Data in Physics and Astronomy*, LSU-IBM Big Data Summit, Digital Media Center, LSU, Baton Rouge, LA, Feb 26 2014
- *Opening the Gravitational Wave Window*, Conference for Undergraduate Women in Physics, LSU, Baton Rouge, LA, Jan 19 2014.
- *Prospects for GW transients in early Advanced LIGO and Virgo science runs*, for the LIGO Scientific Collaboration and the Virgo Collaboration, American Physical Society April Meeting, Denver CO, April 14, 2013
- *Catching Einstein's waves*, Public Talk, Perimeter Institute, Ontario, Canada, February 6, 2013.
- *Gravitational Waves: the new frontier - conference summary*, Seoul National University, Seoul, Korea, January 18, 2013.
- *Opening the Gravitational Wave Window*, American Astronomical Society Meeting, Long Beach, CA, January 9, 2013.
- *Searching for gravitational Waves*, for the LIGO Scientific Collaboration and the Virgo Collaboration, Distortions in Spacetime: the Search for Gravitational Waves from Violent Events in the Universe, SACNAS meeting, Seattle, October 12, 2012.
- *Catching Einstein's waves* (Public talk), Sci-Bono Discovery Centre, "Talk 2 a Scientist" series, Johannesburg, SA , May 30, 2012
- *2012 Isaac Asimov Memorial Debate: Faster Than the Speed of Light*, debate hosted by Neil deGrasse Tyson, American Museum of Natural History, New York, March 20, 2012.
- *Catching Einstein's waves*, public talk in Utah State University, Logan, UT, October 7, 2011, part of USU "Science Unwrapped" series, <http://www.usu.edu/unwrapped/>
- *Astronomía con Ondas Gravitacionales*, Córdoba National Observatory, Córdoba, Argentina, Aug 30, 2011
- *Searches for Compact Binary Coalescences in LIGO and Virgo data*, for the LIGO Scientific Collaboration and the Virgo Collaboration: Washington State University, Pullman, WA, Oct 5 2011; University of Victoria, Victoria, Feb 11, 2011; University of British Columbia, Vancouver, Feb 10, 2011; Perimeter Institute, Oct 28 2010; Washington University, St Louis, Feb 17, 2010
- *Listening to Einstein's symphony*, Annual Joint meeting of the National Society of Black Physicists and the National Society of Hispanic Physicists, Austin, TX, Sept 22 2011.
- *Searching for Gravitational Waves*, on behalf of the LIGO and Virgo Scientific Collaborations, Workshop on Astronomy and Relativistic Astrophysics, Maresias Beach, Brasil, Oct 5 2009.
- *Status of Ground Based Detectors*, Gravitational Waves and Data Analysis Workshop, San Juan, Puerto Rico, January 19, 2009.
- *Einstein y las ondas gravitacionales*, Public Talk, Ciudad Juárez, Mexico, November 17, 2007.
- *Searches for gravitational waves from astrophysical sources*, on behalf of the LSC, Bouchet Award Lecture, American Physical Society April meeting, Jacksonville, FL, April 12, 2007.
- *Gravitational Waves: a new window to the Universe*, LIGO/NSF Science Education Center Inauguration, Livingston, LA, November 13, 2006.
- *Searching for gravitational waves with LIGO*, Plenary talk, American Physical Society April Meeting, Dallas, TX, April 25, 2006.