

Curriculum Vitae

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

Aug 15, 2018

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

- 2018, Honorary Doctorate of Science, Glasgow University
- 2018, Southeastern Universities Research Association (SURA) Distinguished Scientist Award
- 2018, Dickinson College John Glover Award Medal
- 2017, Fellow, Canadian Institute for Advanced Research, Gravity and the Extreme Universe Program
- 2017, Honoris Causa PhD, National University of Córdoba, Argentina

- 2017, Jerónimo Luis de Cabrera distinction, awarded by the city government of Córdoba, Argentina
- 2017, Member, US National Academy of Sciences
- 2017, Fellow, American Academy of Arts and Sciences
- 2017, Einstein Medal awarded by the Albert Einstein Society, Bern, Switzerland (awarded to the LIGO Scientific Collaboration and the Virgo Collaboration)
- 2017, US National Academy of Sciences Award for Scientific Discovery (awarded to Peter Saulson, David Reitze and Gabriela González)
- 2017, Bruno Rossi prize, High Energy Astrophysics Division of the American Astronomical Society (awarded to Gabriela González and the LIGO Scientific Collaboration).
- 2016, Highlighted as one of “Ten people who mattered this year”, Nature Magazine
- 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).

Advised Students, Postdocs

Past graduate students and current positions: Andres Rodriguez (MS, 2007, NOV Tuboscope software engineer), Chad Hanna (PhD, 2008, Penn State Associate professor), Jacob Slutsky (PhD, 2010, NASA GSFC staff member), Jeffrey Kissel (PhD, 2010, LIGO Hanford Observatory Controls Engineer), Tobin Fricke (PhD, 2011, Control Systems Engineer, Google), Sarah Caudill (PhD, 2012, Dutch National Institute for Subatomic Physics, scientist), Anamaria Effler (PhD, 2015, Caltech staff scientist at LIGO Livingston), Marissa Walker (PhD, 2017, Postdoc at California State University-Fullerton), Christopher Buchanan (M.Sc, 2017)

Current graduate students: Thomas Abbott, Terra Hardwick, Siddharta Soni, Shania Nichols, Andre Guies

Advised postdocs and current positions: Mark Beilby (Willamette University); Vijay Chickarmane (Data Scientist, Axtria - Ingenious Insights); Alexander Dietz (QA Engineer at Ecole polytechnique fdrate de Lausanne); 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 (Controls Engineer, LIGO Livingston Observatory), Keiko Kokeyama (ICRR scientist, Tokyo), Duncan Macleod (Cardiff University postdoc), Marie Kaspracz (LIGO Caltech engineer) Guillermo Valdes (LSU, current postdoc) Alex Urban (LSU, current postdoc)

Community and Professional Service

- 2018- present, Member, Fermi Users Group
- 2018- present, Member, High Energy Astrophysics Division (HEAD) of American Astronomical Society
- 2017-present, Chair, Perimeter Institute Scientific Advisory Committee
- 2011-2017 Elected spokesperson of the LIGO Scientific Collaboration (LSC, www.ligo.org).
- Other LSC positions held: Chair of Program Committee (2018), 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, Annecy) 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 “Gravitational Waves Astrophysics” (Chair), Baton Rouge, LA, 2018; 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

- 2016-present Member, College of Science Diversity Committee
- 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-1806656, “Instrument Development and Data Analysis for LIGO”, 2018-2021, \$1,340,000, Principal Investigator: Gabriela González.
- National Science Foundation Award PHY-1505779 “Instrument Development and Data Analysis for LIGO”, 2015-2019, \$1,075,000, Principal Investigator: Gabriela González.
- National Science Foundation Award PHY-1700765, “Data Handling and Analysis Infrastructure for Gravitational Wave Astronomy”, \$7,199,963, PI: Patrick Brady, University of Wisconsin at Milwaukee; with subaward to LSU: \$568,912, 2011-2016 (Gonzalez is Senior investigator).
- 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 Astronomical Society, American Optical Society, American Association for the Advancement of Science, International Astronomical Society, 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

- *Searching for and finding! gravitational waves*, (2-lecture course) High Energy Astrophysics School, Erice, Italy, Aug 5, 6, 2018.
- *Gravitational-wave Astronomy*, Alumni Professionals of Southern Conference, Baton Rouge, LA, Aug 1, 2018
- *La música gravitatoria del Universo*, Public talk, Buenos Aires Planetarium, Buenos Aires, Argentina, July 25 2018
- *Astronoma con ondas gravitacionales*, Public talk, IDEAS series, Argentinian Ministry of Culture, Rosario, Argentina, July 19 2018
- *Einstein, agujeros negros, y ondas gravitacionales*, Public Talk, Salamanca, Spain, 2018
- em Ground-based gravitational wave detectors: status and latest observations, Plenary talk, Astronomical Spanish Association meeting, Salamanca, Spain, July 18, 2018
- *Gravitational-wave Astronomy*, European Space Astronomy Centre Seminar, Madrid, Spain, July 12, 2018
- *Astronoma con ondas gravitacionales*, Marie Skłodowska-Curie Colloquium, Consejo Superior de Investigaciones Científicas, Madrid, Spain, July 9, 2018

- *Astronomía con ondas gravitacionales*, Public talk/colloquium, Institute Balseiro, Bariloche, Argentina, June 1, 2018
- *Qué saben las ondas gravitacionales de mujeres en ciencia?*, Foro Nacional Interdisciplinario de Mujeres en Ciencia, Tecnología y Sociedad, Bariloche, Argentina, June 1, 2018
- *Einstein, black holes, gravitational waves and other matters*, Las Cumbres Observatory Public Lecture, Santa Barbara, CA, May 23, 2018
- *Searching for and finding! gravitational waves*, Brazilian Academy of Sciences annual meeting, Rio de Janeiro, Brazil, May 8 2018.
- *Einstein, black holes, gravitational waves and other matters*, National Academy of Sciences Research Briefings, Washington, DC, April 28, 2018
- *Einstein, black holes, gravitational waves and other matters*, Pacific Northwest College Physicists, Bothell, WA, April 21, 2018
- *Einstein, agujeros negros, ondas gravitacionales y otros asuntos*, Masters Argentina Forum, Chicago, IL, April 14, 2018
- *Gravitational-wave Astronomy*, Francis Slack Lecture, Vanderbilt University, Nashville, TN, March 1, 2018
- *Einstein, black holes, gravitational waves and other matters*, Southern Louisiana Chapter of American Association of Women in Physics, New Orleans, Feb 19, 2018
- *Einstein, black holes and gravitational waves*, Glover Memorial Lecture (public lecture), Carlisle, PA, Jan 29 2018,
- *Gravitational-wave Astronomy*, Conference for Undergraduate Women in Physics, Jacksonville, Florida, Jan 13, 2018
- *Gravitational-wave Astronomy*, Bruno Rossi Prize talk, 231st Meeting, American Astronomical Society, Jan 10, 2018
- *Gravitational-wave Astronomy*, Plenary talk, American Association of Physics Teachers, San Diego, LA, January 8 2018
- *Searching for and finding! gravitational waves*, 2017 Lanutti Lecture, Florida State University, Nov 30, 2017
- *Searching for and finding! gravitational waves*, XIV ICFA School on Instrumentation in Elementary Particle Physics, Havana, Cuba (videoconference), Nov 27 2017.
- *Searching for and finding! gravitational waves*, Colloquium, National Center for Supercomputer Applications, Univ of Illinois at Urbana-Champaign, Nov 3, 2017
- *Searching for and finding! gravitational waves*, National Meeting of Argentinian Astronomical Association, Malargue, Mendoza, Argentina, Sep 21, 2017
- *Searching for and finding! gravitational waves*, CERN High Energy School, CERN, Geneva, Switzerland, Sep 2, 2017
- *Einstein, agujeros negros y ondas gravitacionales* (public talk), Córdoba National University, Córdoba, Argentina, Aug 10 2017

- *Searching for and finding! gravitational waves*, International Conference of Women in Physics, Birmingham, UK, July 19, 2017
- *Einstein, black holes and gravitational waves* (public talk), Caltech, Pasadena, CA, July 12, 2017
- *Searching for and finding! gravitational waves*, Stephen Hawking 75th Birthday conference, Cambridge, UK, July 4, 2017
- *Einstein, black holes and gravitational waves* (public talk), Gravity and Black Holes Stephen Hawking public symposium, Cambridge, UK, July 2, 2017
- *Searching for and finding! gravitational waves* (public talk), Einstein medal ceremony, Bern, Switzerland, June 7 2017
- *Einstein, black holes and gravitational waves* (public talk), Cave Memorial Lecture, Queen's University, Kingston, ON, Canada (Jan 17, 2017)
- *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-SAIFR 5th Anniversary Symposium: Advancement of Science in South America, Sao Paulo, Brazil, Nov 6 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, Sep 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
- *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 plenary 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
- *Searching for gravitational waves*, General Relativity and Gravitation: A centennial perspective, Penn State, June 12, 2015
- *Reality since Einstein*, panel discussion hosted by Brian Greene at World Science Festival, New York City, May 29, 2015.
- *LIGO and its Scientific Collaboration*, National Science Foundation "Gravity Principal Investigator Day", Arlington, VA, October 2 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, Feb 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.
- *Catching Einstein's waves* (Public talk), Sci-Bono Discovery Centre, "Talk 2 a Scientist" series, Johannesburg, South Africa , 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/>
- *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.
- *Searching for gravitational waves with LIGO detectors*, on behalf of the LSC, Colloquium, Kavli Institute of Theoretical Physics, Santa Barbara, CA, May 30, 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.