

# Curriculum Vitae

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

Nov 25, 2019

## 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

June 2019 - present: Louisiana State University Boyd Professor  
August 2008 - 2019: 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).

## Professional Memberships

Elected Fellow of the American Physical Society (2007), International Society of General Relativity and Gravitation (2010), American Academy of Arts and Sciences (2017), Canadian Institute for Advanced Research, Gravity and the Extreme Universe Program (2017).

Elected member, US National Academy of Sciences (2017), Argentinian National Academy of Sciences (2019), Argentinian National Academy of Exact, Physical and Natural Sciences (2019).

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.

## Honors and Awards

- 2019, SEC Professor of the Year
- Honorary Doctorates: University of Glasgow (2018); University of Córdoba (2017)
- 2018, Southeastern Universities Research Association (SURA) Distinguished Scientist Award
- 2018, Dickinson College John Glover Award Medal
- 2017, Jerónimo Luis de Cabrera distinction, awarded by the city government of Córdoba, Argentina
- Awards as member of the LIGO Scientific Collaboration: Einstein Medal awarded by the Albert Einstein Society, Bern, Switzerland (2017); Gruber Cosmology Prize (2016); Special Breakthrough Prize In Fundamental Physics (2016)
- 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 “Pioneer in Science”, World Science Festival, New York City.
- 2016, Distinction “Brigadier General Juan Bautista Bustos”, awarded by Córdoba state government.
- 2014, American Physical Society Woman Physicist of the Month (Jan 2014)
- 2010 Fellow, International Society of General Relativity and Gravitation
- 2007 Fellow, American Physical Society.
- 2007 Edward A. Bouchet Award, American Physical Society
- 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 (NIKHEF) senior scientist), Anamaria Effler (PhD, 2015, Caltech staff scientist at LIGO Livingston), Marissa Walker (PhD, 2017, Assistant professor, Christopher Newport University), Christopher Buchanan (M.Sc, 2017)

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

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

- 2019-20 Member, Steering Committee of Astro2020 Decadal Survey
- 2019-present Editor in chief, Classical and Quantum Gravity
- 2019-present Member, National Academies Board of Higher Education and Workforce
- 2019-present Trustee, American Universities Inc.
- 2019 Elected Vice-Chair, APS Division of Gravitational Physics
- 2019, Member, NSF MPSAC Subcommittee for the Review of the Physics Frontiers Centers Program
- 2019-present Member, Scientific Advisory Committee, IGFAE Instituto Galego de Fsica de Altas Enerxas, Universidad de Santiago de Compostela
- 2018- present, Member, Fermi Users Group
- 2018- present, Elected Member, Executive Committee 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](http://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

- 2019 Chair, Search committee for LSU Vice-Provost for Research and Economic Development
- 2016-2019 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).

## Selected Recent Invited Talks

- 2019 Invited talk, Gravity Initiative Opening Celebration, Princeton University, Princeton, NJ (Nov 9)
- 2019 Invited plenary talk, Latin American Regional IAU Meeting, Antofagasta, Chile (Nov 4)
- Invited talk, “Peter Saulsons contributions to gravitational wave astronomy”, in “Gravitational Waves on the Adirondacks” meeting, Minnowbrook, NY (Oct 19)
- 2019 Talk at Induction Ceremony, Argentinian National Academy of Sciences, Cordoba, Argentina (Sep 11)

- 2019 Lecturer, School on Physics and Astrophysics of Gravitational Waves, Bad Honnef, Germany (Sep 9)
- 2019 Invited speaker, meeting of the Royal Spanish Society of Physics, Zaragoza, Spain (July 19)
- 2019 Lecturer, UIMP International School on Particle Physics and Cosmology 2019, Santander, Spain (July 3, 4)
- 2019 Invited plenary talk, "IGC@25: Multi-messenger Universe", Penn State, State College, PA (June 23)
- 2019 R. M. Petrie Prize Lecture, Canadian Astronomical Society Meeting, Montreal, Canada (June 18)
- 2019 Invited talk, "Gravitational Wave Astronomy", Japan Society for the Promotion of Science Forum "New Eyes on the Universe" Washington DC, June 7
- 2019 Invited speaker, APS April meeting, in "Creating an Inclusive Physics Community for the Next Century" session, Denver, CO (April 14)
- 2019 Invited speaker, Friends-of-Friends meeting, Astronomical Observatory, Cordoba, Argentina (April 4)
- 2019 Annual Lecturer, Oakland University Chapter of Sigma Xi, Rochester Hills, MI (April 1)
- 2019 Plenary speaker (remote presentation), in "Jornada - Mujeres en Ciencia e Ingeniera: la historia que no conoces", La Plata, Argentina (Mar 29)
- 2019 Lecturer in 2019 CERN Latin American School of High Energy Physics; Villa General Belgrano, Cordoba, Argentina (March 15)
- 2019 Invited Lecturer at Conference for Undergraduate Women in Physics (CUWIP), Corpus Christi, Texas (Jan 19)
- 2019 Public talks delivered in: University of Florida, Gainesville, FL (Feb 9); Santiago de Compostela, Spain (Mar 8); National Observatory, Cordoba, Argentina (April 5); Museo de Ciencias Auditorium, Valencia, Spain (July 10); Fundacion Areces, , Madrid, Spain (July 17); University of Reno, NV (Oct 16); Perimeter Institute, Waterloo, Canada (Oct 23)
- 2019 Colloquia: University of Florida, Gainesville, FL (Feb 8); Brandeis University (Feb 12); Rutgers University (Oct 2);
- 2018 Public talks delivered in: Glover Memorial Lecture (public lecture), Carlisle, PA, (Jan 29); Las Cumbres Observatory Public Lecture, Santa Barbara, CA, (May 23); Guilford Technical Community College, Jamestown, NC (Sept 21), Nelson Lecture at Georgia State University, Atlanta, GA (Sept 24), Anderson Lecture at Oberlin College, Oberlin, OH (Sept 26), Neff lecture at Kansas State Univ (Oct 16), Wright Colloquium at University of Geneva, Geneva, Switzerland (Nov 8),
- 2018 Public talk *Einstein, agujeros negros y ondas gravitacionales* delivered in : Buenos Aires Planetarium, Buenos Aires, Argentina (July 25); IDEAS series, Argentinian Ministry of Culture, Rosario, Argentina (July 19); Salamanca, Spain (July 18); Institute Balseiro, Bariloche, Argentina (June 1); Consejo Profesional de Ciencias Económicas, Córdoba, Argentina, (June 13)

- *Searching for and finding! gravitational waves*, (2-lecture course) High Energy Astrophysics School, Erice, Italy, Aug 5, 6, 2018.
- *Ground-based gravitational wave detectors: status and latest observations*, Plenary talk, Astronomical Spanish Association meeting, Salamanca, Spain, July 18, 2018
- *Astronoma con ondas gravitacionales*, Marie Sklodowska-Curie Colloquium, Consejo Superior de Investigaciones Científicas, Madrid, Spain, July 9, 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
- *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
- *Gravitational-wave Astronomy*, Francis Slack Lecture, Vanderbilt University, Nashville, TN, March 1, 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, Washington, DC, 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*, XIV ICFA School on Instrumentation in Elementary Particle Physics, Havana, Cuba (videoconference), Nov 27 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)
- *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
- *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
- *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), 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.
- *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.