

## CV - ROSALBA PERNA

### Research Interests

#### High Energy Astrophysics

Gamma-ray bursts, neutron stars, accretion disks, X-ray binaries, ultra-luminous X-ray sources, mergers of compact objects, gravitational waves.

#### Cosmology

Gravitational lensing, interstellar medium and dust in high-redshift galaxies, foregrounds for CMB and 21 cm measurements, growth of supermassive black holes, axions,  $N$ -body dynamics.

#### Exoplanets

Magnetohydrodynamics in the atmospheres of hot Jupiters.

### Education

#### Ph.D. in Physics

September 1994- June 1999

Harvard University, Cambridge, MA Thesis title: *Theoretical studies of Gamma-Ray Bursts*.

#### Master in Physics

September 1994- June 1996

Harvard University, Cambridge, MA.

#### Piano Diploma

September 1993

Conservatorio di Musica, Potenza, Italy.

#### Laurea in Physics, 110/110 cum laude

November 1989–July 1993

Università di Salerno, Italy. Thesis title: *Theory of the Integer and Fractional Quantum Hall Effect*

### Academic Appointments

#### Stony Brook University

September 2017 –

Professor of Physics and Astronomy

#### Stony Brook University

January 2014– August 2017

Associate Professor of Physics and Astronomy

#### University of Colorado at Boulder

March 2011– December 2013

Associate Professor of Astrophysics

#### University of Colorado at Boulder

September 2004– March 2011

Assistant Professor of Astrophysics

#### Princeton University

September 2003– August 2004

Lyman Spitzer Fellow

#### Harvard Society of Fellows

July 1999– June 2003

Junior Fellow

### Visiting Scientist Positions

Carnegie Observatories (01/2017); California Institute of Technology (04/2002–06/2002); Osservatorio Astronomico di Roma (01/2002–03/2001); Istituto di Astrofisica Spaziale, Italy (10/2001–12/2001)

## Awards and Honors

<b>OCIW Distinguished Scientific Visitor</b> Carnegie Observatories	2017
<b>Fellowship in the American Physical Society</b> American Physical Society	2014
<b>SIGRAV Prize</b> Italian Society of General Relativity and Gravitational Physics	2010
<b>Astronomy Magazine Feature</b> Personal profile as an Astrophysicist featured in the Astronomy magazine	January 2010
<b>Provost's Faculty Achievement Award</b> University of Colorado at Boulder	2009
<b>Kavli Frontiers of Science Fellow</b> National Academy of Science and Kavli Foundation	2007, 2013
<b>Lyman Spitzer Fellowship</b> Department of Astrophysics, Princeton University	September 2003 - August 2004
<b>Harvard Junior Fellowship</b> Harvard Society of Fellows	July 1999 - June 2003
<b>Award of Excellence (Top Graduate of 30 years)</b> Faculty of Science, University of Salerno (Italy)	2002
<b>Predoctoral Fellowship</b> Smithsonian Astrophysical Observatory.	August 1998 - May 1999
<b>Amelia Earhart Fellowship</b> Zonta International Foundation	September 1998 - May 1999
<b>AWIS Predoctoral Award</b> Association for Women in Science Educational Foundation	1998
<b>Goldhaber Prize (Top Theory Student)</b> Physics Department, Harvard University	1997
<b>Fellowship for Research Abroad</b> Physics Department, Università di Salerno (Italy).	September 1996 – August 1998
<b>Rudmose Fellowship</b> Physics Department, Harvard University	September 1995 – June 1996
<b>Top Student Award (National)</b> ENAM (Italy)	September 1984 – June 1998
<b>Bronze Medal in Piano Competition</b> 4th National Piano Competition A.M.A. Calabria, Italy.	1982

## Teaching

*Stony Brook University:*

“Interstellar Medium”, graduate course, Fall 2016

“Graduate Seminar II” (Nuclear, Particle, Astronomy), Spring 2014, Fall 2014, Fall 2017

“Stars and Radiation”, for undergraduate science majors, Fall 2014, Fall 2016

“Introduction to Astronomy: Stars and Galaxies”, for non science majors, Spring 2015, Fall 2015

“Astronomy Laboratory”, for non science majors, Spring 2015, Fall 2015

“Introduction to Astronomy: Introduction to the Solar System”, for non science majors, Spring 2016

“Modern Physics” (Recitation), Fall 2017

*University of Colorado:*

“Black Holes”, an undergraduate course for non-science majors (taught seven times)

“Internal Processes in Gases, part II”, a graduate level course (taught twice)

“Astrophysics I, Stellar and Interstellar”, for undergraduate science majors (taught once)

“Stars and Galaxies”, for undergraduate non-science majors (taught twice)

“Neutron Stars”, graduate seminar (taught once)

“Radiative and Dynamical Processes”, a 4-credit core course for graduate students (taught three times)

## **Student and Postdoctoral supervision**

*Postdocs*

Matthew van Adelsberg, JILA, 09/2006 - 08/2008

Bruno Giacomazzo, JILA, 10/2011 - 09/2013

Takamitsu Tanaka, Stony Brook University, 09/2014 - 08/2016

Simone Dall’Osso, Stony Brook University, 05/2016 - present

*Graduate Students*

Joseph Flasher, University of Colorado, 2004-2006

Kevin Heng, University of Colorado, 2005-2007

Enrico Bozzo, University of Rome and JILA, 2003-2006

Peter Robinson, University of Colorado, 2007-2009

Federico Bernardini, University of Rome and JILA, 2007-2010

Ting Yan, University of Colorado, 2009-2011

Daniele Viganó, University of Alicante and JILA, 2013

Sebastien Guillot, McGill University and JILA, 2013-2014

Taeho Ryu, Stony Brook University, 2014 - present

Yihan Wang, Stony Brook University, 2017 - present

*Undergraduate Students*

Michelle Villeneuve, University of Colorado, 2012-2013

Shawn Hoose, Stony Brook University, 2014 - 2015

Samantha Scibelli, Stony Brook University, 2015 - Present

Rina Kim, Stony Brook University, 2014

## Invited Lectures

Princeton University, Physics dept., July 2004, lecture on “Black Holes” for the Princeton-Gran Sasso summer school.

La Scuola Normale Superiore, Dec. 2003; lectures for PhD students on the topic of “Accretion in Astrophysics”.

## Selected Invited Conference Talks, Colloquia and Seminars

Invited Talk, “First National Meeting on GRBs”, Rome, Dec. 2001

Astronomy Colloquium, Caltech, April 2002

Invited Talk, “Gamma-Ray Bursts: The Brightest Explosions in the Universe”, Harvard University, May 2002

Invited Talk, 2nd Workshop ”Gamma-Ray Bursts in the Afterglow Era”, Rome, Sept. 2002

Astrophysics Seminar, University of Santa Cruz, May 2002

Astrophysics Seminar, University of Santa Barbara, May 2002

Astrophysics Colloquium, University of Chicago, January 2003

Astrophysics Seminar, New York University, January 2003

Astronomy Colloquium, Columbia University, January 2003

Astrophysics Seminar, Harvard/CfA, January 2003

Astrophysics Seminar, Rutgers University, February 2003

Astrophysics Colloquium, University of Colorado, February 2003

Physics Colloquium, University of Rochester, March 2003

Astrophysics Colloquium, Stanford University, April 2003

Theoretical Astrophysics Seminar, Berkeley, April 2003

Astrophysics Seminar, Lawrence Livermore National Labs, April 2003

Astrophysics Colloquium, Princeton University, December 2003

Astrophysics Seminar, La Scuola Normale, Pisa, Italy, December 2003

Invited Talk, “GRB Physics before Swift”, State College, PA, April 2004

Astronomy Colloquium, Cornell University, February 2005

Astrophysics Colloquium, American Museum of National History, February 2005

Astrophysics Colloquium, Northwestern University, March 2005

Astrophysics Colloquium, University of Chicago, April 2005

Astrophysics Seminar, Rutgers University, April 2005

Invited Talk, , “Pulsar Wind Nebulae”, Harvard-Radcliffe, May 2005

Astronomy Colloquium, Harvard University, March 2006

Astrophysics Colloquium, Nanjing University, China, July 2006

Invited Talk in the session on “Gamma-Ray Bursts”, 36th COSPAR Scientific Assembly, Beijing, China, July 2006

Astrophysics Colloquium, McGill University, Montreal, Canada, October 2006

Theoretical Astrophysics Seminar, Berkeley, April 2007

Astronomy Colloquium, University of Nevada at Las Vegas, May 2007

Astrophysics Colloquium, University of Colorado, September 2008

Astronomy Colloquium, Columbia University, March 2009

Astronomy Seminar, Yale University, May 2009

Astrophysics Colloquium, American Museum of National History, May 2009

Astrophysics Seminar, New York University, October 2009  
Physics Colloquium, University of Southern California, October 2009  
ITC Colloquium, Harvard/ITC, October 2009  
Astronomy Colloquium, Ohio State University, November 2009  
Invited Talk, “From Planets to Galaxies”, Budapest, Hungary, June 2010  
Invited Prize Talk at “XIX SIGRAV conference on General Relativity and Gravitational Physics”, Pisa, Italy, September 2010  
Physics Colloquium, University of Missouri at Columbia, November 2010  
Invited Review Talk, “The Prompt Activity of Gamma-Ray Bursts”, Raleigh, NC, March 2011  
All JILA Colloquium, JILA, March 2011  
Astronomy Colloquium, University of Maryland, April 2011  
Astrophysics Seminar, Max Planck Institute for Gravitational Physics, Potsdam, Germany, June 2011  
Astrophysics Seminar, Institute of Space Sciences, Barcelona, Spain, September 2011  
Physics Colloquium, West Virginia University, October 2011  
High Energy Seminar, Max Planck Institute, Garching, Germany, November 2011  
Astronomy Colloquium, University of British Columbia, Vancouver, Canada, November 2011  
Astronomy Colloquium, ETH, Zurich, Switzerland, November 2011  
Invited Talk, “Planet-Z: atmospheres and interiors of exoplanets”, Zurich, Switzerland, November 2011  
Astrophysics Seminar, Rutgers University, December 2011  
Astronomy Seminar, Stony Brook University, February 2012  
ITC lunch talk, Harvard/ITC, March 2012  
Astrophysics Seminar, Center for Relativistic Astrophysics, Georgia Tech, March 2012  
Physics Colloquium, University of Barcelona, March 2012  
Astrophysics Joint Seminar, McGill University, Montreal, Canada, April 2012  
Astrophysics Seminar, North Carolina State University, Raleigh, April 2012  
Astrophysics Seminar, New York University, April 2012  
Astrophysics Seminar, Osservatorio Astronomico di Roma, Italy, June 2012  
Invited Talk in the session on “Magnetars”, 39th COSPAR Scientific Assembly, Mysore, India, July 2012  
Astrophysics Colloquium, Institut Astrophysique de Paris, September 2012  
Physics Colloquium, University of Texas at San Antonio, October 2012  
Cosmology Seminar, Carnegie Mellon University, December 2012  
Physics Colloquium, Grinnell College, December 2012  
Astrophysics Colloquium, Anton Pannekoek Institute, Amsterdam, Netherlands, December 2012  
Physics Colloquium, University of Massachusetts at Amherst, January 2013  
Astrophysics Seminar, La Scuola Normale, Pisa, Italy, February 2013  
Astrophysics Seminar, Stony Brook University, February 2013  
Astronomy Colloquium, Cornell University, April 2013  
Invited Talk, STARS2013 - SMFNS2013 meetings, Cuba, May 2013  
Astrophysics Colloquium, SISSA, Trieste, Italy, May 2013  
Invited Introductory Speaker for “Cosmic Explosions”, Kavli Frontiers of Science Symposium, National Academy of Sciences, Irvine, June 2013  
Invited Talk on the topic of ‘Magnetars’, KIPAC@10, “Big Questions in Particle Astrophysics and Cosmology”, Stanford, September 2013

Invited Talk, “Explosive Transients: Lighthouses of the Universe”, Santorini, September 2013  
Astrophysics Colloquium, Northwestern University, October 2013  
Exoplanet Seminar, Kavli Institute, Cambridge, UK, November 2013  
Astrophysics Colloquium, Institute of Astronomy, Cambridge, UK, November 2013  
Invited Review Talk on ‘X-ray flares as clues of the central engine’, “GRB-Magnetar Thinkshop”, Bormio, Italy, January 2014  
Physics/Mathematics Joint Colloquium, New York University Abu Dhabi, January 2014  
High Energy Seminar, University of Michigan, Ann Arbor, March 2014  
Physics Colloquium, Wayne State University, March 2014  
Invited Talk in the session on “The Transient Gravitational Wave Sky”, APS April Meeting, Savannah, April 2014  
Astronomy & Astrophysics Colloquium, University of Rochester, April 2014  
Physics Colloquium, University of Rochester, April 2014  
Astronomy Tea Talk, Caltech, May 2014  
Joint CSH-WP Colloquium, University of Bern, Switzerland, May 2014  
Invited Review Talk on ‘Progenitors of short Gamma-Ray Bursts’ , “Gamma-Ray Burst in the Multi-Messenger Era” , Paris, June 2014  
Invited Talk in the session on “Magnetars”, 40th COSPAR Scientific Assembly, Moscow, Russia, August 2014  
Invited Review Talk on ‘Gamma-Ray Bursts and Magnetars’, “SWIFT 10 Years of Discovery”, Rome, December 2014  
ESO/MPA/MPE/USM Joint Astronomy Colloquium, Garching, Germany, January 2015  
Astronomy Colloquium, Penn State University, February 2015  
Physics Colloquium, Brookhaven National Laboratory, March 2015  
Institute of Advanced Studies - Princeton University Joint Astrophysics Colloquium, April 2015  
Invited Plenary Talk at the NewCompStar Meeting, Budapest, Hungary, June 2015.  
Invited Review Talk on “Highly magnetized neutron stars: theory, observations and connection with gamma-ray bursts” at the Fourteenth Marcel Grossmann Meeting on General Relativity and Relativistic Astrophysics, Rome, Italy, July 2015  
Invited Talk in “The Zoo of Accreting Compact Objects”, Lorentz Center of Leiden, Netherlands, August 2015  
Astronomy Colloquium, University of Massachusetts at Amherst, October 2015  
Invited Talk on “Magnetar Formation” at the ISSI workshop on Relativistic Compact Objects, Bern, Switzerland, November 2015  
Astrophysics Colloquium, KIPAC/Stanford, December 2015  
Astronomy Colloquium, Yale, December 2015  
Physics Colloquium, Stony Brook University, April 2016  
Physics Colloquium, Oregon State University, November 2016  
Astrophysics Colloquium, Carnegie Observatories, January 2017  
BWIS (Brookhaven Women in Science) Colloquium, Brookhaven national Laboratory, February 2017  
Astrophysics Seminar, American Museum of National History, February 2017  
Physics Colloquium, New York University, April 2017  
Physics Colloquium, Texas Tech., April 2017  
Invited Talk on “GRBs from compact-binary mergers” at “New Frontiers in Gravitational-Wave Astrophysics”, Rome, Italy, June 2017

Invited Talk at the workshop “A multi-messenger look at the origin of gamma-ray busts”, in “European Week of Astronomy and Space Science”, Prague, Czech Republic, June 2017

Invited Discussion Starter Talk on “Heating a long-lived dead disk” at the Lorentz Workshop on “Potential Electromagnetic signatures of stellar mass binary black hole mergers”, Leiden, Netherlands, September (2017)

Invited Plenary Talk at the MAS Meeting of the American Physical Society, NJIT, November 2017

Invited Plenary Talk on “EM counterparts of compact object binary mergers” at the conference “Deciphering the violent Universe”, Playa del Carmen, Mexico, Dec. 2017

## Grants

*Reported only RP's amount when shared grant*

**NASA/Swift (theory): (PI)** Constraining the Properties of the Gamma-Ray Burst Environment through time-variable absorption. Dates: 05/01/2005 - 04/30/2007. Award amount: \$40,000

**NSF-AST: (PI)** Gamma-Ray Bursts as Cosmological Probes. Dates: 07/01/2005 - 06/30/2008. Award amount \$277,707

**NASA/XMM: (CoI)** Unveiling the broad band properties of the fading transient AXP XTE J1810-197. Dates: 09/18/2006 - /09/17/2008. Award amount: \$39,044

**NASA/Spitzer: (CoI)** Gamma-Ray Burst Physics in the Spitzer/Swift Era. Dates: 06/13/2006 - 09/30/2008. Award amount: \$19,605

**NASA/Hubble: (CoI)** Searching for Light Echoes After the SGR 1806-20-Hyperflare. Dates: 04/01/2006 - 03/31/2009. Award amount: \$21,419

**NASA/XMM: (CoI)** Unveiling the quiescent emission properties of the fading transient AXP XTE J1810-197. Dates: 07/24/2008 - 07/23/2009. Award amount: \$33,500

**NASA/XMM: (CoI)** The Transient Bursting Anomalous X-Ray Pulsar in Westerlund 1. Dates: 08/17/2007 - 08/16/2009. Award amount: \$33,645

**NASA/XMM: (CoI)** Unveiling the Quiescent State Properties of the Transient AXP XTE J1810-197. Dates: 01/01/2008 - 12/31/2009. Award amount: \$33,626

**NASA/XMM: (CoI)** The post-awakening of the transient bursting anomalous X-ray pulsar in Westerlund 1. Dates: 07/24/08 - 07/23/2010. Award amount: \$16,919

**NASA/XMM: (CoI)** Prompt study of AXP outbursts with XMM. Dates: 01/01/2009 - 12/31/2010. Award amount: \$34,800

**NASA/Chandra: (CoI)** Prompt Study of Burst-Selected Outbursts from AXPs. Dates: 03/15/2009 - 02/08/2012. Award amount: \$20,727

**NASA/XMM: (CoI)** Unveiling the nature of the Period evolution of XTE J180-197. Dates: 08/13/2009 - 08/12/2011. Award amount: \$25,165

**NASA/XMM: (CoI)** XMM-Newton Observation of the new SGR 0501+4516 in its return to quiescence. Dates: 09/01/2009 - 08/31/2011. Award amount: \$26,376

**NASA/XMM:** (CoI) From Outburst to Quiescence: Monitoring the Transient X-ray Pulsar in Westerlund 1. Dates: 09/01/2009 - 08/31/2011. Award amount: \$25,553

**NASA/Chandra:** (CoI) Unveiling the nature of cyclic behavior in the period evolution of the Anomalous X-ray Pulsar XTE J1810-197. Dates: 11/02/2009 - 01/25/2012. Award amount: \$21,362

**NASA/XMM:** (CoI) Prompt study of magnetar outbursts with XMM-Newton. Dates: 05/21/2010 - 05/20/2012. Award amount: \$15,616

**NASA/Chandra (DDT):** (CoI) Unveiling the nature of cyclic behavior in the period evolution of the Anomalous X-ray Pulsar XTE J1810-197. Dates: 06/08/2010 - 06/07/2011. Award amount: \$6,000

**NSF-AST:** (PI) Studies of Gamma-Ray Bursts in the Swift Era. Dates: 08/15/2010 - 07/31/2015. Award amount: \$383,071

**NASA/Chandra (archive):** (PI) Constraining the magnetic field topology of magnetars through spectral-timing analysis of the quiescent emission of XTE J1810-197. Dates: 01/01/2011 - 02/28/2013. Award amount: \$45,000

**NASA/Chandra (DDT):** (CoI) Unveiling the nature of cyclic behavior in the period evolution of the Anomalous X-ray Pulsar XTE J1810-197. Dates: 10/26/2010 - 10/25/2012. Award amount: \$7,500

**NASA/Chandra (DDT):** (PI) Unveiling the nature of cyclic behavior in the period evolution of the Anomalous X-ray Pulsar XTE J1810-197. Dates: 02/10/2011 - 02/09/2013. Award amount: \$12,000

**NASA/Chandra:** (CoI) Prompt study of magnetar outbursts with Chandra. Dates: 09/06/2011 - 06/23/2015. Award amount: \$21,712

**NASA/Chandra:** (CoI) Unveiling the Nature of the Cyclic Behavior in the Period Evolution of the Anomalous X-ray Pulsar XTE J1810-197. Dates: 02/21/2012 - 02/20/2015. Award amount: \$18,910

**NASA/Fermi (theory):** (CoI) General Relativistic Magnetohydrodynamic Simulations of Neutron Star Binaries. Dates: 08/07/2012 - 08/18/2015. Award amount: \$80,000

**NASA/Chandra:** (CoI) Prompt Study of Magnetar Outbursts with Chandra. Dates: 04/30/2013 - 04/29/2016. Award amount: \$23,212

**NASA/Chandra:** (CoI) Prompt Study of Magnetar Outbursts with Chandra. Dates: 07/16/2014 - 07/15/2016. Award amount: \$26,595

**NASA/Hubble:** (CoI) GRB hosts and the search for missing star formation at high redshift. Dates: 01/01/2015 - 12/31/2017. Award amount: \$5,000

**NASA/Chandra (archive):** (PI) Spectral and timing analysis of the low magnetic field magnetar SWIFT J1822.3-1606: testing our understanding of the magnetar behaviour. Dates: 01/01/2015 - 02/29/2017. Award amount: \$45,000



**NASA/Swift (theory): (PI)** X-ray Flares in long and short GRBs: A numerical investigation of disk fragmentation in hyperaccreting disks. Dates: 08/01/2015 - 07/29/2017. Award amount: \$40,000

**NASA/Swift (theory): (PI)** Swift precursors to long GRBs: hidden signs of a newly-born, hyper accreting magnetar? Dates: 08/01/2016 - 07/31/2017. Award amount: \$40,000

**NSF-AST: (PI)** Gamma-Ray Bursts and Magnetars: Astrophysical Connections and Probes of Fundamental Physics. Dates: 08/01/2016 - 07/31/2019. Award amount: \$405,000

**NASA/Chandra: (CoI)** Prompt Study of Magnetar Outbursts with Chandra and NuStar. Dates: 05/25/2017 - 05/24/2018. Award amount: \$25,100

### **Selected Approved Computational and Observing Proposals (as Co-I)**

**PRACE computer time grant:** (PI: Giacomazzo) General Relativistic Simulations of Binary Neutron Star Mergers, 16 million core hours, 2015-2016

**CINECA computer time grant:** (PI: Giacomazzo) General Relativistic Magnetohydrodynamic Simulations of Neutron Stars on FERMI, 1 million core hours, 2014-2015

**NSF XSEDE computer time grant:** (PI: Giacomazzo) General Relativistic Magnetohydrodynamic Simulations of Merging Compact Objects, 4 million core hours, 2013-2014

**NSF XSEDE computer time grant:** (PI: Giacomazzo) General Relativistic Magnetohydrodynamic Simulations of Merging Compact Objects, 8 million core hours, 2012-2013

**Chandra:** Hot Accretion Flows in Quiescent Dwarf Novae

**Hubble:** Searching for light echoes after the SGR 1806-20- hyperflare

**Spitzer:** Gamma-Ray Bursts in the Spitzer/Swift Era

**NOAO:** Searching for Gamma-Ray Bursts in Nearby Galaxies

**VLT:** Probing Interstellar and Intergalactic matter through *UVES ToO* observations of GRB afterglows

**Parkes:** Searching for radio pulsations from the transient AXP in Westerlund 1

**ALMA:** Disentangling the nature of the ring-like structure around the magnetar SGR 1900+14

### **Professional Service - National and International**

Referee for *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Publications of the Astronomical Society of Japan*, *Publications of the Astronomical Society of Australia*, *Physical Review Letters*, *Physics of Fluids*, *Science*, *Nature*.

**Hubble** Cycle 12 (2003), Cycle 13 (2004), member of panel review

**Swift** Cycle 1 (2004), member of panel review

**Columbia University** (2004), external committee member for PhD thesis defense

**Chandra** Cycle 7 (2005), Cycle 9 (2007), Cycle 11 (2009), member of panel review, Cycle 17 (2015), Chair and member of panel review

**National Science Foundation** (2006, 2011, 2014), member of panel review

**NASA-ATP** (2006) and (2010), member of panel review

**France-Israel joint astrophysics projects** (2007), external reviewer

**Niels Bohr Institute** (2009), external committee member for PhD thesis defense

**Fermi** Cycle 2 (2009), member of panel review

**NASA Postdoctoral Program** (2010, 2012, 2013, 2014), reviewer

**University of Stockholm** (2011), member of international board for selection of new faculty member

**Natural Sciences and Engineering Research Council of Canada** (2012), reviewer of Major Resources Support Grants

**Suzaku** Cycle 7 (2012), member of panel review and Deputy Chair

**National Science Center of Poland** (2012), reviewer of grant proposals

**Canada Research Chairs**, member of the College of Reviewers for Senior Faculty Chair positions

**University of Iceland** (2013), external reviewer of postdoctoral grants

**Einstein Postdoctoral Fellowships**, member of the selection committee

**University of Texas, San Antonio** (2014), external member of research committee panel for Physics PhD student

**NASA Earth and Space Science Fellowships** (2014), reviewer of proposals

**La Scuola Normale di Pisa**, reviewer of research proposals by their faculty

**NSF EPSCoR Research Infrastructure Improvement (RII) Track-1 program**, external reviewer of proposals

**Netherlands Organization for Scientific Research (NWO)**, reviewer of Vidi grant application

**Canadian Institute of Theoretical Astrophysics (CITA)** (2015), member of the external Expert Review Committee in charge of evaluating the NSERC grant proposal of the Institute.

**European Research Council (ERC)** (2016), external reviewer of Consolidator Grant Proposal.

**Chilean National Science and Technology Commission (CONICYT)** (2016), Reviewer of proposal for the FONDECYT grant competition.

**Natural Sciences and Engineering Research Council of Canada (NSERC)** (2016), External reviewer of CITA yearly progress .

**Advanced Theory and Simulations, Wiley** (2017 –), member of the Editorial Board.

## Organization of Conferences and Schools

Member of the Scientific Organizing Committee for the parallel session on Gamma-Ray Bursts for the conference “New Views of the Universe”, Chicago, Dec. 2005.

Member of the Scientific Organizing Committee for the conference “Probing Stellar Populations Out to the Distant Universe”, Cefalu’ (Italy), Sept. 2008.

Member of the Scientific Organizing Committee for the conference “Gravitational Wave Bursts: Astrophysics, Data Analysis & Numerical Relativity”, Chichen-Itza (Mexico), Dec. 2009.

Member of the Scientific Organizing Committee for the School in Cargese on “Radiation Processes, Jets and Relativistic Objects”, Summer 2016

Member of the Scientific Organizing Committee for the session “X-ray Polarimetry: experiments and science prospects” at the 41st COSPAR Scientific Assembly, Istanbul, Turkey, July 2016

Member of the Scientific Organizing Committee for the session “The Magnetar Link in Neutron Stars, Gamma Ray Bursts and Supernovae” at the 41st COSPAR Scientific Assembly, Istanbul, Turkey, July 2016

Member of the Scientific Organizing Committee for the conference “FOE2017”, Corvallis, OR, June 2017

Member of the Scientific Organizing Committee for the mini-workshop on “Gravitational Waves and binary Neutron star Mergers”, Simons Center for Geometry and Physics, Stony Brook, November 2017

## Departmental and University service

### *Stony Brook University:*

Member of PhD thesis committees, 2014 –

Member of Master thesis committees, 2014 –

Member of Colloquium committee, 2014, 2015, 2016, 2017, 2018

Organizer of the astro seminars, Fall 2014, Spring 2015, Fall 2015, Spring 2016

Member of the Qualifying Exam committee, 2014, 2015

Member of Tenure committee for colleague in the department, 2014

Chair of committee for 4th year review of colleague in the department, 2015

Member of the search committee for the Assistant Graduate Program Director, 2015

Chair of the search committee for a faculty position in experimental high energy physics, 2015-2016

Member of the search committee for a faculty position in Theoretical/Computational Astrophysics, 2016-2017

Member of the search committee for a faculty position in Astrophysics/Large Data, 2016-2017

Member of University committee for Diversity Plan, 2016, 2017, 2018

Graduate Student Mentor, 2017-

Member of the Chair search committee, 2017-2018

### *University of Colorado:*

“Diversity and graduate students concerns” committee, 2004, 2005, 2006

“Public relations and Newsletter” committee, 2004, 2005, 2006, 2007

Colloquium organizer (chair), 2005, 2006

Undergraduate advisor, 2006, 2007, 2009, 2010, 2012, 2013

Graduate admission committee, 2006, 2007, 2008

Comprehensive examination I committee, 2009, 2011, 2012, 2013  
Curriculum and undergraduate majors committee, 2009, 2012, 2013  
Course scheduling committee, 2010, 2011  
Committee member for Comprehensive Examination II (both Astrophysics and Physics Dept.), 2004-2013  
Committee member for PhD thesis defenses (both Astrophysics and Physics Dept.), 2004-2013  
JILA Executive committee member, 2013

## Consortia and Professional Memberships

Invited Member of IAXO (International AXion Observatory)  
Invited Member of XIPE (X-ray Imaging Polarimetry Explorer); selected for ESA's next medium-class science mission. Leader of the working group "Quantum electrodynamical effects and X-ray polarimetry".  
Invited Member of the Advisory Board of the Collaborative Research Network on Neutron Stars, consisting of three Universities (Frankfurt, Jena, Frankfurt) and the Max-Planck Institute for Radioastronomy in Bonn.  
Scialog Fellow: Time Domain Astrophysics, selected participant  
Member of the American Physical Society

## Outreach and Volunteering

Piano teacher for low-income students, Salerno, Italy, 1991-1992  
Reader for blind music student (music and text), Cambridge, MA, 1998-2001  
Italian-English translator for Emergency USA, 2009  
Panel member for discussion with undergraduate students at U. of Colorado on "Careers in Academia" (2009) and on "Women in Physics and Astronomy" (2013)  
Faculty host at the Fiske Observatory night for the general public, Boulder (2010, 2012)  
Volunteer for the "Earth Explorers" program for underrepresented youth (7th and 8th graders), Longmont, CO (2012)  
Speaker in the "Open Night" series at Stony Brook University, Fall 2014  
Guest expert on "Exoplanets" at the BNL astro journal club

## Personal

*Citizenship:* Italian citizen. US permanent resident.

*Hobbies:* dance (argentine tango, salsa, swing, modern and jazz), piano playing, travel, photography, bicycle touring, Shaolin Kung Fu (currently 3rd degree brown belt), running (1/2 marathons and marathons).

*Spoken languages:* Italian (native), English (fluent), Spanish (basic).

# Publications

## Articles in refereed Journals

157. Ryu, T., **Perna, R.**, Haiman, Z., Ostriker, J. P., Stone, N. C. *Interactions between multiple supermassive black holes in galactic nuclei: a solution to the final parsec problem*, MNRAS, 473, 3410 (2018)
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