

# CV - ROSALBA PERNA

## Research Interests

### High Energy Astrophysics

Gamma-ray bursts, neutron stars with special focus on magnetars, accretion disks, X-ray binaries, ultra-luminous X-ray sources, mergers of binary compact objects, gravitational waves and their electromagnetic counterparts, tidal disruption events.

### Cosmology

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

### Exoplanets

Magnetohydrodynamics and turbulence in the atmospheres of hot Jupiters. Dynamical effects from stellar encounters on planetary systems.

### $N$ -body Dynamics

Scattering in the small- $N$  regime with applications ranging from supermassive black hole dynamics in galactic centers, to production of hypervelocity stars, to binary compact object formation, to exoplanetary architectures in dense star clusters.

## Education

**Ph.D. in Physics** **September 1994- June 1999**  
Harvard University, Cambridge, MA Thesis title: *Theoretical studies of Gamma-Ray Bursts.*

**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 2021 – August 2024**  
Associate Department Chair

**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 (01/2002–03/2002); Istituto di Astrofisica Spaziale, Italy (10/2001–12/2001); CCA, Flatiron Institute (2018–)

## Awards and Honors

<b>Aspen Institute Italia Award</b> For significant US-Italian collaborative research	<b>2022</b>
<b>OCIW Distinguished Scientific Visitor</b> Carnegie Observatories	<b>2017</b>
<b>Fellowship in the American Physical Society</b> American Physical Society	<b>2014</b>
<b>SIGRAV Prize</b> Italian Society of General Relativity and Gravitational Physics	<b>2010</b>
<b>Astronomy Magazine Feature</b> Personal profile as an Astrophysicist featured in the Astronomy magazine	<b>January 2010</b>
<b>Provost's Faculty Achievement Award</b> University of Colorado at Boulder	<b>2009</b>
<b>Kavli Frontiers of Science Fellow</b> National Academy of Science and Kavli Foundation	<b>2007, 2013</b>
<b>Lyman Spitzer Fellowship</b> Department of Astrophysics, Princeton University	<b>September 2003 - August 2004</b>
<b>Harvard Junior Fellowship</b> Harvard Society of Fellows	<b>July 1999 - June 2003</b>
<b>Award of Excellence (Top Graduate of 30 years)</b> Faculty of Science, University of Salerno (Italy)	<b>2002</b>
<b>Predoctoral Fellowship</b> Smithsonian Astrophysical Observatory.	<b>August 1998 - May 1999</b>
<b>Amelia Earhart Fellowship</b> Zonta International Foundation	<b>September 1998 - May 1999</b>
<b>AWIS Predoctoral Award</b> Association for Women in Science Educational Foundation	<b>1998</b>
<b>Goldhaber Prize (Top Theory Student)</b> Physics Department, Harvard University	<b>1997</b>
<b>Fellowship for Research Abroad</b> Physics Department, Università di Salerno (Italy).	<b>September 1996 – August 1998</b>
<b>Rudmose Fellowship</b> Physics Department, Harvard University	<b>September 1995 – June 1996</b>
<b>Top Student Award (National)</b> ENAM (Italy)	<b>September 1984 – June 1998</b>

## Teaching

### *Stony Brook University:*

- ”WISE Honors Project/Thesis I”, Fall 2023
- ”Tutorial in Advanced Topics”, Fall 2021
- “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 the Solar System”, for non science majors, Spring 2016, Fall 2019, Fall 2020, Fall 2024
- “Modern Physics” (Recitation), Fall 2017
- “Introduction to Planetary Sciences”, for both science and non-science majors, Fall 2020, Fall 2021, Fall 2022, Fall 2024

### *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 - 02/2018
- Nathan Leigh, Stony Brook University, 01/2018 - 31/2018

### *Graduate Students (advised and co-advised)*

- 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 - 2018  
Yunan Xie, Stony Brook University (Master thesis), 2020  
Yihan Wang, Stony Brook University, 2017 - 2022  
Jason Alford, Columbia University, 2018 - 2021  
Michael Ray, Stony Brook University (Master thesis), 2021, 2022  
Claudia Soriano Guerrero, University of Barcelona, 2021 - 2025  
Marguerite Epstein-Martin, Columbia University, 2021 - 2026  
Chengcheng Xin, Columbia University, 2021 - 2023  
Chaitanya Prasad, Stony Brook University, 2022 - 2023  
Alex Laundry, Stony Brook University (Master research), 2023  
Gaia Fabj, Niels Bohr Institute, 2024  
Hoyoung Kang, Stony Brook University (Master thesis), 2024 - 2025  
Ian Johnson, Stony Brook University, 2024 -  
Jake Hassan, Stony Brook University, 2024 -  
Nathan Walker, Oregon State, 2024 -  
Emily McPike, CUNY, 2025 - 2026

#### *Undergraduate Students*

Michelle Villeneuve, University of Colorado, 2012-2013  
Shawn Hoose, Stony Brook University, 2014 - 2015  
Samantha Scibelli, Stony Brook University, 2015 - 2016  
Rina Lim, Stony Brook University, 2016-2017  
Antonio Frigo, Stony Brook University, 2020-2021  
Braeden Bierwiler, Stony Brook University, WISE program, Honors thesis, 2021  
Anna Kovalskaya, Stony Brook University, WISE program, Honors thesis, 2023  
Zhehuze Wang, Stony Brook University, 2026

#### **Selected Invited Conference Talks, Lectures, 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, UC 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

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

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

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

Astronomy Colloquium, Cornell University, February 2005

Astrophysics Colloquium, American Museum of Natural 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, UC 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 Natural 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 bursts”, 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

Astrophysics Seminar, University of Waterloo, CA, March 2018  
Theoretical Astrophysics Seminar, UC Berkeley, April 2018  
Harvard-CfA Colloquium, April 2018  
Invited Talk in conference on "Unsolved Problems in Astrophysics and Cosmology", Budapest, Hungary, July 2018  
Astrophysics Seminar, Osservatorio Astronomico di Roma, Italy, June 2018  
Astrophysics Seminar, CITA, Toronto, Canada, November 2018  
Astronomy Seminar, Michigan State University, February 2019  
Astronomy Colloquium, University of Michigan, February 2019  
Invited Talk, "Fifty-One Ergs" conference, Raleigh, NC, May 2019  
Invited Talk at the "Multi-Messenger Astrophysics in the Gravitational Wave Era", Yukawa Institute for Theoretical Physics (YITP), Kyoto University, Kyoto, Japan, October 2019  
Physics Colloquium, Georgia Tech, November 2019  
Astrophysics Colloquium, Center for Computational Astrophysics, Flatiron Institute, November 2019  
Invited Talk at the workshop on "The Origins of Black Hole Mergers and Gravitational Waves", Lorentz center, Leiden, Netherlands, December 2019  
Physics Colloquium, City College of New York, November 2020 (virtual)  
Astrophysics Seminar, McGill Space Institute, Montreal, Canada, January 2021 (virtual)  
Astrophysics Seminar, University of Concepcion, Chile, May 2021 (virtual)  
Astrophysics Seminar, University of Milano Bicocca, Italy, June 2021 (virtual)  
High Energy Astrophysics seminar, UNAM, Mexico, June 2021 (virtual)  
Astrophysics seminar, Monash University, Melbourne, Australia, February 2022 (virtual)  
CIERA Astrophysics seminar, Northwestern university, May 2022  
Astrophysics Seminar, University of Milano Bicocca, Italy, June 2022  
Astrophysics Seminar, University of the Balearic Islands, Spain, December 2022  
Invited Talk at the conference "AGN Santa Fe: Where are the Objects in AGN Disks?", Santa Fe, March 2023  
Invited Talk at the workshop on "Tidal Disruption Events", Columbia University, March 2023  
Astronomy Colloquium, University of Wisconsin, November 2023  
Invited talk at the conference on "Fast-Evolving Extragalactic Transients", Bormio, Italy, February 2024  
Astrophysics Seminar, Purdue University, April 2024  
Physics Colloquium, Carnegie Mellon University, February 2025  
TAP Colloquium, University of Arizona, April 2025  
Invited Talk at the workshop "Rattle and Shine: Gravitational waves and more", Hamburg Observatory, September 2025  
Invited Talk at the conference "The Tenth Anniversary of the Discovery of Gravitational Waves", Palma, Spain, September 2025

## 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, hyperaccreting 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 - 07/31/2020. 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

**NSF-AST: (PI)** Compact Object Binaries in the Gravitational Wave Era. Dates: 08/01/2020-07/31/2025. Award amount: \$450,000

**NASA-Fermi (theory): (PI)** Connecting the properties of binary compact merger ejecta with the prompt emission of their jet-cocoon systems Dates: 01/01/2021- 12/31/2021. Award amount: \$60,000

**NASA Astrophysics Decadal Survey Precursor Science: (Co-I)** Probing The High-z Universe with a Large X-Ray Observatory. Dates: 12/19/2024 - 12/18/2027. Award amount: \$283,582

**NASA-Swift (theory): (PI)** Calibrating the Stellar Population in the Disks of Active Galactic Nuclei via GRB Observations. Dates: 08/01/2025 - 07/31/2026 Award amount: \$40,000

## 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*, *International Journal of Modern Physics D*, *Astrophysics and Space Sciences*, *Physical Review Letters*, *Physical Review D*, *Physics of Fluids*, *Science*, *Nature*, *Nature Astronomy*, *Icarus*.

**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, 2022, 2026), 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, 2023, 2024, 2026), 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** (2014-2018), 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)** External reviewer of Consolidator Grant Proposals (2016, 2016)

**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)** (2016-2019), External reviewer of CITA yearly progress.

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

**Universita' di Milano Bicocca** (2018), reviewer of PhD thesis in Physics and Astronomy

**NuSTAR Cycle 4** (2018), Chair and member of panel review

**German Research Foundation**, reviewer of grant proposal (2018)

**Frontiers in Astronomy and Space Sciences**, Associate Editor, 2018 - 2021

**Kavli Institute for Theoretical Physics (KITP)**, Santa Barbara, Member of the Advisory Board, 2018 – 2022

**NASA Multimessenger Astronomy**, Member of the Science Advisory Group, 2018 –

**Italian Ministry for Education, University and Research**, referee for PRIN, to fund fundamental research projects.

**Universita' La Sapienza, Rome**, referee of PhD Thesis (2018)

**NASA Hubble Fellowship program**, Chair and panel member of the selection committee (2018).

**CCA Summer School**, “Multiscale Modeling of Astrophysical and Space Plasmas”, member of the organization and selection committee (2019)

**International Conference on General Relativity and Gravitation (GR22)**, organizer and chair of the “Relativistic Astrophysics” session, Valencia, Spain, July 2019

**F1000Prime**, member of the section in High Energy Astrophysics, 2019 -

**Universita' di Padova, Italy**, referee of PhD Thesis (2019)

**Blavatnik Regional Awards**, member of the jury (2020)

**National Academies of Sciences, Engineering, and Medicine (NASEM)**, Review Coordinator for the Astronomy and Astrophysics 2020 Decadal Survey (2020)

**CCA, Flatiron Institute**, co-leader of the Compact Object group (Fall 2020-Spring 2021)

**CCA, Flatiron Institute**, member of the selection committee for the Flatiron Research Fellows (2020)

**Center for Astro Particle and Planetary Physics, NYU Abu Dhabi**, member and Chair of the Center External Advisory Board (2021-2024)

**Journal of High Energy Astrophysics (JHEAp)**, Associate Editor, 2021 – 2024

**NASA Theoretical and Computational Astrophysics Networks (TCAN)**, Chair and member of the panel review

**USA-Israel Binational Science Foundation**, reviewer of proposal (2023)

**NASA Exoplanets Research Program (XRP)**, member of the panel review

**National Natural Science Foundation of China (NSFC) and the Israel Science Foundation (ISF)**, external reviewer of proposal

**Raman Research Institute**, external reviewer of faculty applicant (2023)

**DCOMP/APS**, member of the Nominating Committee (2023-2025)

**German Research Foundation**, reviewer of final project report for German-Russian collaborative grant (2023)

**Universidad Nacional Autonoma de Mexico**, member and president of the synod for PhD thesis evaluation and defense (2024)

**Cottrell Scholar Award**, reviewer of applications

## **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

Member of the Scientific Organizing Committee for the mini-workshop on “The Plasma Physics of Neutron Stars Mergers”, Center for Computational Astrophysics, Flatiron Institute, October 2018

Member of the Scientific Organizing Committee of the session on “Neutron Star Astrophysics at the Crossroads: Magnetars and the Multimessenger Revolution” at IAU symposium 363, November 2021

Member of the Scientific Organizing Committee “Time Scales in Astrophysics”, Center for Astroparticle and Planetary Physics, New York University Abu Dhabi, January 2023

Member of the Scientific Organizing Committee of the Lorentz workshop “Challenges and future perspectives in gravitational- wave astronomy”, Leiden, October 2024

Member of the Scientific Organizing Committee “Cosmic Collisions”, Center for Astroparticle and Planetary Physics, New York University Abu Dhabi, January 2026

## **Departmental and University service**

*Stony Brook University:*

Member of the interviewing committee for the incoming class of STEM scholars, 2024, 2025, 2026

Reviewer for the Workshop Seed Grant Program, 2025  
 Member of the committee for the review of the Astro PhD requirements, 2024-2025  
 Member of the Advisory committee of the Simons STEM Scholars Program, 2022  
 Member of committee to select the Director of the Simons STEM Scholars Program, 2022  
 Member of the search committee for a department Grant Administrator (2024)  
 Coache University committee - Facilities and Infrastructure, 2023 -  
 Graduate Committee, 2023 -  
 Member of the standing committee for the P&A Master Program, 2022 -  
 Chair and member of the Advisory Committee to the Chair, 2021 - 2024  
 Member of the Department Webpage Committee, 2021 -  
 Member of the Long Range Planning Committee, 2020-2021  
 Member of promotion to full professor committee for colleagues in the department, 2018 –  
 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, 2023  
 Member of the Qualifying Exam committee, 2014, 2015  
 Member of Tenure committee for colleagues 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  
 Member of the Award committee, 2018-2020, 2022-

*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, Fall 2014

Volunteer for Achilles Int., for athletes (runners) with disabilities, Brooklyn, NY, 2018

Faculty member participant at the event “Wonder Women in Science and Engineering”, to inspire undergraduate women to a career in STEM, Stony Brook, October 2019, November 2020

Public Speaker at the Vanderbilt Planetarium for the Astronomical Society of Long Island, January 2020

Society of Physics Students talk, for undergraduate students interested in Physics, November 2020

WISE 105: Women in Science and Engineering seminar course, speaker, March 2021

WISE 102: Women in Science and Engineering research presentation, March 2021

Guest speaker for Science and Cinema, Stony Brook, April 2025

## **Personal**

*Citizenship:* Italian and American citizen.

*Hobbies:* dance (argentine tango, salsa, swing, modern, jazz, aerial [reached level 3 in pole]), piano playing, travel, photography, bicycle touring, shaolin kung fu (reached 3rd degree brown belt), running (raced in numerous 1/2 marathons and marathons - 3 times Boston qualifier and 3 times NYC marathon qualifier).

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

# Publications

## Articles in refereed Journals

242. Cantiello, M., Hassan, J. B., **Perna, R.**, Armitage, P. J., Begelman, M. C., Jiang, Y.-F., Ryu, T., Townsend, R. H. D. *Pulsational Instability of Quasi-stars: Interpreting the Variability of Little Red Dots*, *Astrophys. J. Lett.*, 1000, L4
241. Johnson, I. P. A., Ryu, T., **Perna, R.** *Hydrodynamic simulations of tidal disruption encores*, *Phys Rev. D.*, 113, 043032 (2026)
240. Hassan, J., **Perna, R.**, Cantiello, M., Armitage, P., Begelman, M., Ryu, T. *The Growth of the Central Black Holes in Quasi-stars*, *Astrophys. J.*, 998, 65 (2026)
239. Walker, N., Lazzati, D., Parsotan, T., **Perna, R.** *The Photospheric Emission of a Short-Duration Gamma-Ray Burst Emerging from a Realistic Binary Neutron Star Merger*, *Astrophys. J.*, 994, 93 (2025)
238. Hassan, J., **Perna, R.**, Cantiello, M., Parsotan, T., Lazzati, D., Walker, N. *Spectral Evolution of Rotating Population III Stars*, *Astrophys. J.*, 992, 68 (2025)
237. Viganó D., Sengupta, S., Soriano-Guerrero, C., **Perna, R.**, Elias-López, A., Kumar, S., Akgun, T. *Inflated hot Jupiters: inferring average atmospheric velocity via Ohmic models coupled with internal dynamo evolution*, *Astron. & Astrophys.*, 701, A8 (2025)
236. Hui, L. et al. (includ. **Perna, R.**), *Kilonova constraints for the LIGO/Virgo/KAGRA neutron star merger candidate S250206dm: GW-MMADS observations*, *Astrophys. J. Lett.*, 990, 46 (2025)
235. Soriano-Guerrero, C., Viganó, D., **Perna, R.**, Elias-Lopez, A., Beltz, H. *Non-ideal MHD simulations of hot Jupiter atmospheres*, *MNRAS*, 540, 1827 (2025)
234. Kang, H. D., **Perna, R.**, Lazzati, Davide, Wang, Yi-H. *The Cosmological Population of Gamma-Ray Bursts from the Disks of Active Galactic Nuclei*, *Open J. of Astrophys.*, 8, 23 (2025)
233. Wang, Y., **Perna, R.**, Zhu, Z., Lin, D. N. C. *Evolution of Extremely Soft Binaries in Dense Star Clusters: On the Jupiter Mass Binary Objects*, *Astrophys. J.*, 982, 90 (2025)
232. **Perna, R.**, Gottlieb, O., Shukla, E., Radice, D. *Connecting GRBs from Binary Neutron Star Mergers to Nuclear Properties of Neutron Stars*, *Phys. Rev. D*, 111, 063015 (2025)
231. Chimes, A. A. et al. (includ. **Perna, R.**), *The infrared counterpart and proper motion of magnetar SGR 0501+4516*, *Astr. & Astrophys.*, 696, 127 (2025)
230. Epstein-Martin, M., Tagawa, H., Haiman, Z., **Perna, R.** *Time-dependent models of AGN disks with radiation from embedded stellar-mass black holes*, *MNRAS*, 537, 3396 (2025)

229. Fabj, G., Dittmann, A. J., Cantiello, M., **Perna, R.**, Samsing, J. *Mapping the Outcomes of Stellar Evolution in the Disks of Active Galactic Nuclei*, *Astrophys. J.*, 981, 16 (2025)
228. Guglielmi, L., Stratta, G., Dall’Osso, S., Singh, P., Brusa, M., **Perna, R.** *Incidence of afterglow plateaus in GRBs associated with binary neutron star mergers*, *Astr. & Astrophys.*, 692, 73 (2024)
227. Lazzati, D., **Perna, R.**, Ryu, T., Breivik, K. *Delayed Emission from Luminous Blue Optical Transients in Black Hole Binary Systems*, *Astrophys. J. Lett.*, 972, 17 (2024)
226. Ascenzi, S., Viganó, D., Dehman, C., Pons, J. A., Rea, N., **Perna, R.** *3D code for MAgneto-Thermal evolution in Isolated Neutron Stars, MATINS: thermal evolution and lightcurves*, *MNRAS*, 533, 201 (2024)
225. Wang, Y., **Perna, R.**, Zhu, Z. *Free-Floating binary planets from ejections during close stellar encounters*, *Nature Ast.*, 8, 756 (2024)
224. Prasad, C., Wang, Y., **Perna, R.**, Ford, K. E. S., McKernan, B. *Tidal Disruption Events from three-body scatterings and eccentricity pumping in the disks of Active Galactic Nuclei*, *MNRAS*, 531, 1409 (2024)
223. Piga, V., Burgay, M., Possenti A., Ridolfi A., Pilia, M., Rea, N., **Perna, R.**, Colpi, M., Israel, G. *Serendipitous Discovery of a 431 ms Pulsar in the Background of Westerlund 1*, *Univ.*, 10, 274 (2024)
222. Ryu, T., **Perna, R.**, Cantiello, M., *Tidal Disruption Encores*, *Astrophys. J. Lett.*, 965, 25 (2024)
221. Tagawa, H., Kimura, S. S., Haiman, Z., **Perna, R.**, Bartos, I. *Shock cooling and breakout emission for optical flares associated with gravitational wave events*, *Astrophys. J.*, 966, 21 (2024)
220. Xin, C., Haiman, Z., **Perna, R.**, Wang, Y.-H., Ryu, T. *Tidal Peeling Events: low-eccentricity tidal disruption of a star by a stellar-mass black hole*, *Astrophys. J.*, 961, 149 (2024)
219. Ryu, T., de Mink, S., Farmer, R., Pakmor, R., **Perna, R.**, Springel, V. *Close Encounters of Star - Black Hole Binaries with Single Stars*, *MNRAS*, 527, 2734 (2024)
218. Ryu, T., Valli, R., Pakmor, R., **Perna, R.**, de Mink, S. E., Springel, V. *Close encounters of black hole - star binaries with stellar-mass black holes*, *MNRAS*, 525, 5752 (2023)
217. Soriano-Guerrero, C., Viganò, D., **Perna, R.**, Akgün, T., Palenzuela, C. *Magnetic winding and turbulence in ultra-hot Jupiters*, *MNRAS*, 525, 626 (2023)
216. Gottlieb, O., Issa, D., Jacquemin-Ide, J., Liska, M., Foucart, F., Tchekhovskoy, A., Metzger, B. D., Quataert, E., **Perna, R.**, Kasen, D., et al. *Large-scale Evolution of Seconds-long Relativistic Jets from Black Hole-Neutron Star Mergers*, *Astrophys. J. Lett.*, 954, 21 (2023)

215. Gottlieb, O., Issa, D., Jacquemin-Ide, J., Liska, M., Tchekhovskoy, A., Foucart, F., Kasen, D., **Perna, R.**, Quataert, E., Metzger, B. D. *Hourlong Near-UV/Optical Emission from Mildly Relativistic Outflows in Black Hole-Neutron Star Mergers*, *Astrophys. J. Lett.*, 953, 11 (2023)
214. Wang, Y., Ford, S., **Perna, R.**, McKernan, B., Zhu, Z., Zhang, B. *Effective two-body scatterings around a massive object*, *MNRAS*, 523, 2014 (2023)
213. Ye, C. S., Fragione, G., **Perna, R.** *On the Tidal Capture of White Dwarfs by Intermediate-mass Black Holes in Dense Stellar Environments*, *Astrophys. J.*, 953, 141 (2023)
212. Lazzati, D., **Perna, R.**, Gompertz, B., Levan, A. *GRB 191019A: a short gamma-ray burst in disguise from the disk of an active galactic nucleus*, *Astrophys. J. Lett.*, 950L, 20 (2023)
211. Dall’Osso, S., Stratta, G., **Perna, R.**, De Cesare, G., Stella, L. *Magnetar central engines in Gamma-Ray Bursts follow the universal relation of accreting magnetic stars*, *Astrophys. J. Lett.*, 949L, 32 (2023)
210. Tagawa, H., Kimura, S. S., Haiman, Z., **Perna, R.**, Bartos, I. *Observable signature of merging stellar-mass black holes in active galactic nuclei*, *Astrophys. J.*, 950, 13 (2023)
209. Ray, M., Lazzati, D., **Perna, R.** *The effects of Time-Variable Absorption due to Gamma-Ray Bursts In Active Galactic Nuclei Accretion Disks*, *MNRAS*, 521, 4233 (2023)
208. Tagawa, H., Kimura, S. S., Haiman, Z., **Perna, R.**, Bartos, I. *Observable signatures of stellar-mass black holes in active galactic nuclei*, *Astrophys. J. Lett.*, 946, 3 (2023)
207. Ryu, T., **Perna, R.**, Pakmor, R., Ma, J.-Z., Farmer, R. de Mink, S. E. *Close Encounters of Tight Binary Stars with Stellar-mass Black Holes*, *MNRAS*, 519, 5787 (2023)
206. Ibrahim, A. Y. et. al (includ. **Perna, R.**) *Deep X-ray and radio observations of the first outburst of the young magnetar Swift J1818.0-1607*. *Astrophys. J.*, 943, 20 (2023)
205. **Perna, R.**, Grishin, E. *Disks of Stars in the Galactic Center Triggered by Tidal Disruption Events*, *Astrophys. J. Lett.*, 939, 17 (2022) [Featured in AASNOVA Highlights and New Scientist Magazine]
204. Lazzati, D., Soares, G., **Perna, R.** *Prompt Emission of Gamma-Ray Bursts in the High-density Environment of Active Galactic Nuclei Accretion Disks*, *Astrophys. J. Lett.*, 938, 18 (2022)
203. Wang, Y.-H., Lazzati, D., **Perna, R.** *The emergence of diffused Gamma-Ray Burst afterglows from the disks of Active Galactic Nuclei*, *MNRAS*, 516, 5935 (2022)
202. Ryu, T., **Perna, R.**, Wang, Y.-H. *Close Encounters of Stars with Stellar-mass Black Hole Binaries*, *MNRAS*, 516, 2204 (2022)
201. Du, P., Egana-Ugrinovic, D., Essig, R., Fragione, G., **Perna, R.** *Searching for Ultraviolet Bosons and Constraining Black Hole Spin Distributions with Stellar Tidal Disruption Events*, *Nature Comm.*, 13, 4626 (2022)

200. Yang, Y., Bartos, I., Fragione, G., Haiman, Z., Kowalski, M., Marka, S., **Perna, R.**, Tagawa, H. *Micro Tidal Disruption Events in Active Galactic Nuclei*, *Astrophys. J. Lett.*, 933, 28 (2022)
199. **Perna, R.**, Artale, M. C., Wang, Y.-H., Mapelli, M., Lazzati, D., Sgalletta, C., Santoliquido, F. *Host galaxies and electromagnetic counterparts to binary neutron star mergers across the cosmic time: Detectability of GW170817-like events*, *MNRAS*, 512, 2654 (2022)
198. Alford, J. A. J., Gotthelf, E. V., **Perna, R.**, Halpern, J. P. *Measuring the Non-Axially-Symmetric Surface Temperature Distribution of the Central Compact Object in Puppis A*, *Astrophys. J.*, 927, 233 (2022)
197. Tagawa, H., Kimura, S. S., Haiman, Z., **Perna, R.**, Tanaka, H., Bartos, I. *Can stellar-mass black hole growth disrupt disks of active galactic nuclei? The role of mechanical feedback*, *Astrophys. J.*, 927, 41 (2022)
196. Wang, Y.-H., **Perna, R.**, Leigh, N. W. C., Shara, M. M. *Hot Jupiter formation in dense clusters: secular chaos in multiplanetary systems*, *MNRAS*, 509, 5253 (2022)
195. Wang, Y.-H., McKernan, B., Ford, S., **Perna, R.**, Leigh, N. W. C., MacLow, M. M. *Symmetry Breaking in Dynamical Encounters in the Disks of Active Galactic Nuclei*, *Astrophys. J. Lett.*, 923, 23 (2021)
194. Lazzati, D., **Perna, R.**, Ciolfi, R., Giacomazzo, B., Lopez-Camara, D., Morsony, B. *Two steps forward and one step sideways: the propagation of relativistic jets in realistic binary neutron star merger ejecta*, *Astrophys. J. Lett.*, 918, 6 (2021)
193. **Perna, R.**, Tagawa, H., Haiman, Z., Bartos, I. *Accretion-Induced Collapse of Neutron Stars in the Disks of Active Galactic Nuclei*, *Astrophys. J.*, 915, 10 (2021)
192. Wang, Y.-H., Leigh, N., Liu, B., **Perna, R.** *SpaceHub: A high-performance gravity integration toolkit for few-body problems in astrophysics*, *MNRAS*, 505, 1053 (2021)
191. Borghese, A. et al. (includ. **Perna, R.**) *The X-ray evolution and geometry of the 2018 outburst of XTE J1810–197*, *MNRAS*, 504, 5244 (2021)
190. Jermyn, A. S., Dittmann, A. J., Cantiello, M., **Perna, R.** *Stellar Evolution in the Disks of Active Galactic Nuclei Produces Rapidly Rotating Massive Stars*, *Astrophys. J.*, 914, 105 (2021)
189. Wang, Y.-H., **Perna, R.**, Armitage, P. J. *Partial tidal disruption events by stellar mass black holes: Gravitational instability of stream and impact from remnant core*, *MNRAS*, 503, 6005 (2021)
188. Campana, S., Lazzati, D., **Perna, R.**, Bernardini, M. G., Nava, L. *The variable absorption in the X-ray spectrum of GRB 190114C*, *A&A*, 649, 135 (2021)
187. **Perna, R.**, Lazzati, D., Cantiello, M. *Electromagnetic Signatures of Relativistic Explosions in the Disks of Active Galactic Nuclei*, *Astrophys. J. Lett.*, 906, 7 (2021)  
[Featured in AASNOVA Highlights]

186. Fragione, G., **Perna, R.**, Loeb, A. *Calibrating the binary black hole population in nuclear star clusters through tidal disruption events*, MNRAS, 500, 4307 (2021)
185. Wang, Y.-H., Leigh, N. W. C., **Perna, R.**, Shara, M. M. *Hot Jupiter and ultra-cold Saturn formation in dense star clusters*, Astrophys. J., 905, 536 (2020)
184. Dehman, C., Viganó, D.;, Rea, N., Pons, J. A., **Perna, R.**, Garcia-Garcia, A. *On the Rate of Crustal Failures in Young Magnetars*, Astrophys. J. Lett., 902, 32 (2020)
183. Leigh, N. W. C., Toonen, S., Portegies Zwart, S. F., **Perna, R.** *Mergers of Equal-Mass Binaries with Compact Object Companions from Mass Transfer in Triple Star Systems*, MNRAS, 496, 1819 (2020)
182. Lazzati, D., Ciolfi, R., **Perna, R.** *Intrinsic properties of the engine and jet that powered the short gamma-ray burst associated with GW170817*, Astrophys. J., 898, 59 (2020)
181. Wang, Y.-H., **Perna, R.**, Leigh, N. *Planetary Architectures in Interacting Stellar Environments*, MNRAS, 496, 1453 (2020)
180. Fragione, G. Metzger, B. D., **Perna, R.**, Leigh, N. W. C., Kocsis, B. *Electromagnetic transients and gravitational waves from white dwarf disruptions by stellar black holes in triple systems*, MNRAS, 495, 1061 (2020)
179. Esposito, P. et al. (includ. **Perna, R.**) *A very young radio-loud magnetar*, Astrophys. J. Lett. , 896, 30 (2020)
178. Rea, N. et al. (includ. **Perna, R.**) *The X-ray outburst of the Galactic Center magnetar over six years of Chandra observations*, Astrophys. J., 894, 159 (2020)
177. Wang, Y.-H., **Perna, R.**, Leigh, N. *Giant Planet Swaps during Close Stellar Encounters*, Astrophys. J. Lett., 891, 14 (2020)
176. Wang, Y.-H, Leigh, N., Sesana, A., **Perna, R.**, *The cosmological distribution of compact object mergers from dynamical interactions with SMBH binaries*, MNRAS, 490, 262 (2019)
175. Artkop, K., Smith, R., Corsi, A., Giacintucci, S., Peters, W. M., **Perna, R.**, Cenko, S. B., Clarke, T. E., *Radio follow-up of a candidate gamma-ray transient in the sky localization area of GW170608*, Astrophys. J., 489, 727 (2019)
174. Fragione, G., Leigh, N., **Perna, R.**, Kocsis, B. *Tidal disruption events onto stellar black holes in triples*, MNRAS, 489, 727 (2019)
173. Lazzati, D., **Perna, R.**, *Jet-cocoon outflows from neutron star mergers: structure, light curves, and fundamental physics*, Astrophys. J., 881, 89 (2019)
172. Fragione, G., Leigh, N. W. C., **Perna, R.** *Black hole and neutron star mergers in galactic nuclei: The role of triples*, MNRAS, 488, 2825 (2019)
171. Fragione, G., Grishin, E., Leigh, N. W. C., Perets, H. B., **Perna, R.** *Black hole and neutron star mergers in galactic nuclei*, MNRAS, 488, 47 (2019)

170. **Perna, R.**, Wang, Y.-H., Farr, W. M., Leigh, N., Cantiello, M., *Constraining the Black Hole Initial Mass Function with LIGO/VIRGO Observations*, *Astrophys. J. Letters*, 878, 1 (2019) [Featured in AASNOVA Highlights]
169. Scibelli, S., **Perna, R.**, Keeton, C. *Biases in inferring dark matter profiles from dynamical and lensing measurements*, *MNRAS*, 485, 5880 (2019)
168. **Perna, R.**, Lazzati, D., Farr, W. M., *Limits on electromagnetic counterparts of gravitational wave-detected binary black hole mergers*, *Astrophys. J.*, 875, 49 (2019)
167. Borghese, A. et al. (includ. **Perna, R.**), *The multi-outburst activity of the magnetar in Westerlund I*, *MNRAS*, 484, 2931 (2019)
166. Wang, Y.-H., Leigh, N., Sesana, A., **Perna, R.**, *Hypervelocity binaries from close encounters with a SMBH-IMBH binary: orbital properties and diagnostics*, *MNRAS*, 482, 3206 (2019)
165. Ryu, T., Zingale, M., **Perna, R.**, *Turbulence-driven thermal and kinetic energy flux in the atmospheres of hot Jupiters*, *MNRAS*, 481, 5517 (2018)
164. Lazzati, D., **Perna, R.**, Morsony, B. J., Lopez-Camara, D., Cantiello, M., Ciolfi, R., Giacomazzo, B., Workman, J. C., *Late time afterglow observations reveal a collimated relativistic jet in the ejecta of the binary neutron star merger GW170817*, *Phys. Rev. Lett.*, 120, 241103 (2018) [Chosen as Editors' Suggestion and featured in APS highlights]
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