

# Curriculum Vitae

Nicolas Yunes

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## Statistics

Citizenship: United States/Spain/Argentina  
Civil Status: Married to Jessica Lorien Raley (9<sup>th</sup> August, 2008).

## Education

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August, 2008 The Pennsylvania State University  
Ph. D. in Physics. GPA: 3.99/4.0.  
May, 2003 Washington University in Saint Louis  
B. S. in Physics. Magna Cum Laude, GPA: 3.94/4.0.

## Honors and Awards

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- 2025 **Elected ISGRG Fellow**, International Society for General Relativity and Gravitation with citation “for the groundbreaking discovery of universal properties of neutron stars and for influential work on testing modified gravity theories using gravitational waves.”
- 2023 **Elected APS Fellow**, American Physical Society, prestigious, peer-elected honor ( $\lesssim 0.5\%$  of members annually) recognizing “numerous contributions to general relativity and gravitational wave astrophysics, particularly the discovery of the ‘I-Love-Q’ property of neutron stars.”
- 2017 **Fox Faculty Award** for Outstanding Research, Scholarship, Creativity and Mentorship, Montana State University.
- 2015 General Relativity and Gravitation **Young Scientist Prize**, International Society on General Relativity and Gravitation, International Union of Applied Physics. Premier early-career prize in the field “for wide-ranging and important contributions to gravitational-wave astrophysics.”
- 2014, 2016 Hugo Schmidt Colleague Award for Outstanding Faculty, Physics Department, MSU.
- 2013-2014 College of Letters and Science Fellow in Engagement, Montana State University.
- 2012-2015 KITP Scholar (Visiting Professorship), Kavli Institute for Theoretical Physics, UCSB.
- 2010 **Einstein Fellow**, NASA, one of NASA’s most prestigious early career fellowships in astrophysics, awarded to conduct independent research (hosted at MIT, with a visiting position at Harvard CfA/ITC).
- 2009 **Jürgen Ehlers Thesis Prize**, The International Society on General Relativity and Gravitation. International best-thesis recognition in general relativity and gravitation worldwide.
- 2009 Honorable Mention in the Grav. Wave Int. Committee Thesis Prize Competition.
- 2008 Represented Penn. State Univ. in the Nationwide Council of Graduate Schools Dissertation Award competition (finalist).
- 2008 Alumni Dissertation Award, Penn. State Univ.
- 2006 Blue Apple Award for Best Student Presentation, Midwest Relativity Meeting.
- 2003-2008 Mebus and Duncan Fellowship, Penn. State Univ.
- 2004 Outstanding Student Award, Univ. of Texas at Brownsville, Summer School.

2004	Excellence in Teaching Award, Penn. State Univ.
2003	Senior Physics Prize for Outstanding Performance, Wash. Univ. in St. Louis.
2002-2003	Dean's Honorary Scholarship and Mesmer Scholarship, Wash. Univ. in St. Louis.
2000-2003	Chancellor's List for 4.0 GPA, Wash. Univ. in St. Louis.
2002	Tau Beta Pi Engineering Honor Society, Golden Key Honor Society.

## Research Interests

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<i>Experimental Relativity.</i>	Develop and apply model-independent and model-specific tests of General Relativity with gravitational wave observations, binary pulsar observations and Solar System experiments.
<i>Gravitational Waves.</i>	Construct accurate models for the gravitational waves emitted in the inspiral and ringdown of black holes and neutron stars using post-Newtonian and black hole perturbation theory.
<i>Black Holes.</i>	Find analytical and numerical black hole solutions and study their properties and stability in well-motivated and observationally-viable, modified gravity theories.
<i>Neutron Stars.</i>	Study approximately universal properties of neutron stars and use astrophysical data to infer the neutron star equation of state.

## Funded Grant Activity

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(Currently active grants are boldfaced)

### Large Grants

2025-2029	<b>“Simons Collaboration on Strong Gravity and Black Holes”</b> <b>Simons MPS Collaboration, Simons International Foundation, PI and Director, \$8,000,000.</b>
2025-2027	<b>“Probing gravity and matter with gravitational waves,”</b> <b>Gravity Program, NSF, PI, \$280,000.</b>
2022-2027	<b>“Frameworks: MUSES, Modular Unified Solver of the Equation of State”</b> <b>Cyberinfrastructure for Sustained Scientific Innovation Grant,</b> <b>NSF OCI, PI, \$4,421,366.</b>
2022-2025	<b>“Overcoming Systematics in Gravitational Wave Tests of General Relativity with LISA”</b> <b>Astrophysics Theory Program, NASA, PI, \$981,986.</b>
2021-2027	<b>“Astrophysical Investigations of Dynamical Chern-Simons Theory”</b> <b>Targeted Grant in Mathematical and Physical Sciences,</b> <b>Simons Foundation, Co-PI, \$3,000,000.</b>
2022-2025	“Probing extreme gravity with gravitational waves,” Gravity Program, NSF, PI, \$440,000.
2020-2023	“Gravitational wave cosmology with tidal Love numbers” Windows of the Universe Program, NSF, PI, \$350,000.
2020-2023	“Can Black Hole Images Constrain Modified Gravity Theories?” Windows of the Universe Program, NSF, Co-PI, \$555,828.
2018-2021	“The Extreme Gravity Dynamics and Gravitational Waves of Generic Compact Binary Inspirals,” Gravity Program, NSF, PI, \$343,011.
2018-2021	“Exploring Extreme Gravity with LISA: Developing a Science Case for Tests of General Relativity,” NASA ATP, Co-PI, \$815,554.
2017-2020	“Exploring Extreme Gravity: Neutron Stars, Black Holes and Gravitational Waves,”

2016-2019	NASA EPSCoR Program, Science PI, \$750,000. “Addressing key challenges in space gravitational wave astronomy,” Astrophysics Research and Analysis Program, NASA, Co-PI, \$250,000.
2013-2018	“Gravitational Waves as Probes of Dynamical Strong-field Gravity,” Faculty Early Career Development (CAREER) Program, NSF, PI, \$500,000.
2011-2014	“Probing Strong-field General Relativity with Gravitational Waves,” Astrophysical Theory Program (ATP), NASA ROSES, Co-I, \$296,869.
2011-2014	“Probing Strong Gravity with Gravitational Waves,” Gravity Program, NSF, PI, \$150,000.

### Small Grants

2015-2016	Conference Support, Gravity Program, NSF, PI, \$5,000.
2014-2015	“The eXtreme Gravity Institute,” President Research Award, MSU, PI, \$50,000.
2014-2015	“Einstein’s Symphony,” Education and Public Outreach Grant, American Physical Society, PI, \$10,000.
2013-2015	“Einstein’s Symphony: A Gravitational Wave Voyage Through Space and Time,” Educational Enhancement Grants, Montana Space Grant Consortium, NASA, PI, \$50,000.
2013-2014	Conference Support, Gravity Program, NSF, PI, \$5,000.
2011-2013	“Celebrating Einstein,” Educational Enhancement Grants, Montana Space Grant Consortium, NASA, PI, \$50,000.

### Collaboration Membership and Leadership

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2025-Present	Director of the Simons Collaboration on Black Holes and Strong Gravity.
2024-Present	Member of the NSF-Simons SkAI Institute.
2021-2026	PI and Director of the MUSES Collaboration.
2017-2025	Member of the LISA Scientific Consortium.
2018-2024	Co-Chair of the Fundamental Science Working Group of the International LISA Consortium.
2018-2021	Co-Chair of NASA’s GWSIG and member of the Executive Committee of NASA’s PhysPAG.
2011-2014	Convenor of the Fundamental Physics Working Group of NASA’s Gravitational Wave Science Analysis Group.
2003-2008	Member of the LIGO Scientific Collaboration.

### Professional Experience

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2019-Present	Founding Director, Illinois Center for Advanced Studies of the Universe (ICASU), University of Illinois at Urbana-Champaign.
2019-Present	Professor, Department of Physics, University of Illinois at Urbana-Champaign.
2016-2019	Associate Professor, Physics Department, Montana State University.
2011-2016	Assistant Professor, Physics Department, Montana State University.
2010-2011	Postdoctoral Fellow, MIT. Mentor: Dr. Scott Hughes
2008-2010	Research Associate, Princeton University. Supervisor: Dr. Frans Pretorius
2004-2007	Science Monitor, LIGO Hanford Observatory, WA.
2003-2008	Teaching & Research Assistant, Penn. State University, Physics Department.
2005	Visiting Scientist, University of Jena, Germany.
2002-2003	Undergraduate Research Assistant, Washington University Gravity Group.

## Advising and Mentoring

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### Current Undergraduate Students

2025-Present, Vanessa Zhang, UIUC.

### Former Undergraduate Students

2023-2025, Jacob Schimp, UIUC.

2023-2025, Dhruv Srivastava, UIUC.

2019-2023, Nicolas Patiño, UIUC.

2020-2022, Ashley Shaw, UIUC.

2019-2022, Jameson Dong, UIUC.

2016-2019, Samuel Liebersbach, MSU. USP award.

2017-2019, Jaxen Godfrey, MSU. USP award, MSGC Apprenticeship award.

2017-2019, Reagan Cox, MSU.

2018-2019, Quentin Lucas, MSU.

2011-2012, Brennan Ireland, MSU. Became grad student at RIT.

2012-2015, Devin Hansen, MSU. USP award, NSF Graduate Fellowship. Became a grad. at PI.

2015-2018, Katie Chamberlain, MSU. USP award, MSGC Apprenticeship. Became a grad. at AZU.

2016-2018, Harrison Gott, MSU. USP award. Currently applying for graduate school.

### Current Graduate Students

2025-Present Zoey Dong, UIUC.

2025-Present Giorgios Karikos, UIUC.

2024-Present Anand Balivanda, UIUC.

2024-Present Brook Burbridge, UIUC.

2024-Present Jierui Hu, UIUC.

2024-Present Kelvin Lam, UIUC.

2024-Present Santiago Loane, UIUC.

2024-Present Kaitlyn Prokup, UIUC.

2022-Present Jayana Antunes Saes De Lima, UIUC.

2022-Present Daniel Caballero, UIUC.

2022-Present Bryce Cousins, UIUC.

2021-Present Nijaid Arredondo, UIUC.

2021-Present Carlos Conde, UIUC.

2019-Present Simone Mezzasoma, UIUC.

### Former Graduate Students

2020-2025, Abishek Hegede, UIUC. Became PGI Fellow.

2020-2025, Yiqi Xie, UIUC. Became CITA Fellow

2019-2025, Kristen Schumacher, UIUC. Became ASCEND Fellow at Caltech.

2018-2024, Alexander Deich, MSU and UIUC. Became Research Scientists at KU Leuven.

2018-2024, Caroline Owen, MSU and UIUC. Became postdoc at Milan.

2018-2024, Rohit Chandramouli, MSU and UIUC. Became postdoc at Sissa.  
 2017-2023, Pratik Wagle, MSU and UIUC. Became a postdoc at AEI.  
 2017-2023, Hung Tan, MSU and UIUC. Became a postdoc at Syracuse U.  
 2017-2022, Scott Perkins, MSU and UIUC. Became postdoc at Lawrence Livermore National Lab.  
 2016-2021, Alejandro Cárdenas-Avendaño, MSU and UIUC. Became postdoc at Princeton University.  
 2016-2020, Blake Moore, MSU. Became employed at Raytheon Industries.  
 2014-2020, Andrew Sullivan, MSU. Became postdoc at Princeton University.  
 2013-2019, Alex Saffer, MSU. Became postdoc at the University of Virginia. Now a postdoc at WVU.  
 2014-2018, David Anderson, MSU. Became employed at Raytheon Industries.  
 2012-2018, Nicholas Loutrel, MSU. Became postdoc at Princeton U. Now a postdoc at Sapienza.  
 2012-2017, Dmitry Ayzenberg, MSU. Became postdoc in Fudan, China.  
 2011-2016, Katerina Chatziioannou. MSU. Onassis Fellow. Became CITA Fellow, then Flatiron Fellow. Now Asst. Prof. at Caltech.  
 2011-2014, Laura Sampson, MSU, co-advised with Prof. Cornish. Became postdoc at CIERA.  
 2010-2011, Leo C. Stein, MIT, co-advised with Prof. Hughes. Became Burke fellow at Caltech. Now Prof. at U. of Mississippi.  
 2010-2011, Sarah Vigeland, MIT, co-advised with Prof. Hughes. Became postdoc at UWM. Now Prof. at UWM.

### Visiting Scholars

2024–2026, Fatemeh Taherasghari (adviser: Prof. Clifford Will), U. Florida, USA.  
 2023, Hao Yang Liu (adviser: Prof. Jun Zhang), Beijing U., China.  
 2022, Jann Zozzo (adviser: Prof. Lavinia Heisenberg), ETH, Zurich.  
 2022, T. A. de Pirey Saint Alby (adviser: Prof. Luc Blanchet), Institute d’Astrophysique, France.

### Current Postdoctoral Associates

2024-Present, Ania Liu, UIUC  
 2024-Present, Hao-Jui (Horay) Kuan, UIUC  
 2025-Present, Isaac Legred, UIUC  
 2024-Present, Dongjun Li, UIUC

### Former Postdoctoral Associates

2022-2025, Adrian Chung, UIUC. Became Cambridge Fellow.  
 2022-2025, Alexandria Tucker, UIUC. Left the field.  
 2022-2024, Justin Ripley, UIUC. Became Research Scientists at MIT Lincoln Labs.  
 2022-2023, Ron Tso, UIUC. Passed away in 2023.  
 2020-2023, Jun Zhang, UIUC. Became Asst. Prof. in China  
 2020-2023, Deep Chatterjee, UIUC. Became Research Scientist in MIT LIGO Lab.  
 2017-2020, Hector Okada-Da Silva, MSU, UIUC. Became postdoc at AEI.  
 2014-2016, Remya Nair, MSU. Left the field.  
 2014-2016, Barun Majumder, MSU. Fulbright Fellow  
 2014-2015, Laura Sampson, MSU. Became L’Oreal Fellow and CIERA Fellow.

2011-2015, Kent Yagi, MSU. Became JSPS Fellow at Princeton and then Asst. Prof. at UVA.

2011-2014, Antoine Klein, MSU. Became Research Scientist at U. of. Birmingham.

## Teaching Activities

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### Classes Taught at UIUC

Fall 2022, Fall 2024, Neutron Star Physics (Physics 599-NST).

Created curriculum for new class and wrote new book.

Fall 2023, Spring 2026, The Physics of Art, the Art of Physics.

Created curriculum for new class.

Fall 2022, Graduate Neutron Star Astrophysics and Nuclear Physics.

Created curriculum for new class.

Spring 2020, Graduate General Relativity.

Fall 2020, Graduate General Relativity II (Black holes and 3+1).

Fall 2021, Graduate General Relativity III (Post-Newtonian dynamics).

Spring 2021, Undergraduate Freshman Physics (Physics 101).

### Classes Taught at MSU

Fall 2012, Spring 2012, Fall 2013, Graduate Classical Mechanics.

Fall 2017, Graduate General Relativity I.

Spring 2013, Spring 2015, Graduate General Relativity II.

Spring 2016, Spring 2017, Graduate General Relativity III

Spring 2014, Graduate Quantum Field Theory.

Fall 2016, Spring 2018, Undergraduate Honors Radical Creativity.

Created curriculum for new class and taught in Honors.

Fall 2015, Fall 2016, Fall 2017, Undergraduate Honors Freshman Physics.

Created curriculum for new class.

### Other Teaching Activities

2022, Intensive Summer Course on General Relativity and Gravitational Waves,

Universidad de Buenos Aires, Argentina.

2019, Gravitational Wave Astronomy and Cosmology Summer School, Hangzhou, China.

2019, Geometry and Gravity Summer School, ICP, Trieste, Italy.

2019, Summer School at Testing Gravity '19, Vancouver, Canada.

2015, Summer School on Gravitational Waves, Kyoto, Japan.

2006-2009, Substitute or Invited Lecturer, Penn. State University,

Princeton University, Haverford College.

2001-2003, Science Tutor, Washington University, Physics Department.

2001-2002, Observatory Assistant, Washington University, Physics Department.

## Committee Service

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### Professional Level

2023	Nominator for International Kyoto Prize.
2022	Nominator for MacArthur (Genius) Fellows Program.
2021	Nominator for Nobel Prize in Physics.
2017-Present	Member of the Scientific Editorial Board of Classical and Quantum Gravity.
2019-2023	Member of the Steering Committee and the Advisory Committee of Snowmass
2019-2022	Nominating Committee, International Society for General Relativity and Gravitation.
2019-2021	Member of the Particle Astrophysics and Gravitation Panel of the Astro2020 Decadal Survey.
2020-2021	Chair of the Division of Gravitation of the American Physical Society.
2019-2020	Chair-Elect of the Division of Gravitation of the American Physical Society.
2018-2019	Vice-Chair of the Division of Gravitation of the American Physical Society.
2011-2014	Elected Member at Large, Topical Group on Gravitation of the APS.
2010-Present	Reviewer for grant proposals in NSF Gravity (member), NASA ATP (member and chair), and NASA Einstein Fellowship (member).
2007-Present	Referee for Wiley, Cambridge University Press, Nature, Science, Phys. Rev. Letters, Phys. Rev. D, MNRAS, Nuclear Physics B, Class. and Quant. Gravity, International Journal of Modern Physics, Astrophysical Journal, the European Physical Journal, Journal of Cosmology and Astroparticle Physics, Physics Letters B.

### University Level

2024-Present	Appointments and Promotions Committee, Department of Physics, UIUC.
2019-Present	Illinois Center for Advanced Studies of the Universe, Executive Committee (Chair).
2015-2019	MSU Physics Department Graduate Admissions Committee (Member, Chair).
2015-2019	MSU Physics Department Recruitment Committee (Chair, Member).
2016-2019	MSU University High Performance Computing Cluster Committee (Member)
2018-2021	MSU College of Letters and Sciences Promotion & Tenure Committee (Member)
2018-2021	MSU College of Letters and Sciences Interdisciplinary Committee (Member)
2018-2021	MSU Graduate School Council Committee (Member)
2017	MSU University Diversity and Inclusion Committee (Member)
2011-2015	MSU Library Committee (Chair)
2015-2019	MSU Society of Physics Students (SPS) Faculty Adviser.

## Professional Memberships

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2017-Present	Member of the Greek Physical Society.
2002-Present	Member of the American Physical Society (APS).
2004-Present	Member of the International Society for General Relativity and Gravitation.

## Professional Workshops and Conferences Organized

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2026 – 2029	Organizing Committee for the Yearly Collaborative Meeting of the Simons Collaboration on Strong Gravity and Black Holes.
2025 – 2029	Organizing Committee for the Yearly Collaborative Workshop of the Simons Collaboration on Strong Gravity and Black Holes.

- 2025 Scientific Organizing Committee for the International GR24 Conference, ISGRG, Glasgow, Scotland.
- 2023 Scientific Organizing Committee for the “Transients and Variable Universe” Conference, NCSA/CAPS/ICASU.
- 2022 Organizing Committee for the AstroMeet Workshop, NCSA.
- 2023 Principal Organizer of an international workshop on “Fundamental Physics with LISA” at the Bohr Institute, Copenhagen, Denmark.
- 2020-2021 Scientific Organizing Committee for the International Conference on General Relativity and Gravitation (GR21), Valencia, Spain.
- 2023-2024 Scientific Organizing Committee for the Amaldi Conference on Gravitational Waves (Amaldi15).
- 2022 Principal Organizer of the ICASU Inaugural Conference, UIUC.
- 2022 Principal Organizer of the MUSES Collaboration Meeting, UIUC.
- 2022 Principal Organizer of an international workshop on “Fundamental Physics with LISA” at the Solvay Institute, Brussels, Belgium.
- 2022 Co-Organizer of Simons Workshop, Brown University.
- 2021 Main organizer of the Midwest Relativity Meeting, UIUC.
- 2021 Co-Organizer of Cosmo-21, UIUC.
- 2021 Co-Organizer of the Conference for Undergraduate Women in Physics, UIUC.
- 2020 Organizer of an international virtual workshop on “From Heavy Ions to Neutron Stars”, UIUC.
- 2018 Principal Organizer of an international workshop on “Fundamental Physics with LISA” at the Galileo Galilei Institute, Florence, Italy.
- 2017 Co-Organizer of the Conference for Undergraduate Women in Physics, MSU.
- 2017 Principal local organizer of an international workshop on “eXtreme Matter meets eXtreme Gravity” at MSU.
- 2015 Principal local organizer of an international workshop on “Extreme Gravity” at MSU.
- 2013 Principal local organizer of an international workshop on “Testing General Relativity in the Advanced Detector Era” at MSU.

## Outreach Events and Informal Education

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- 2022-Present **Pints of Science**, Multiple talks, once every 2–3 years.  
Outreach program deployed at Illinois Astronomy.
- 2024-Present **Resident Artist in Physics Program**, Creator and Producer.  
Artsience program deployed at Illinois Physics.
- 2022 **Einstein’s Gravity Playlist Reboot**, Creator, Producer and Script Writer.  
Original planetarium show. Premiere at Parkland Planetarium, Champaign IL.
- 2022 **Making an Accretion Disk around a Black Hole**, Co-creator with Raley.  
Interdisciplinary outreach event, with elementary school students at Uni Primary, Champaign, IL.
- 2020 **Highlights on the Nobel Prize**, Panel Member, Chicago Council on Science and Technology.
- 2019–2020 **Rhythms of the Universe II**, Creator and Principal Organizer. Interdisciplinary, outreach event, similar to part I in 2013–2014, but expanded to include more physics outreach.
- 2019 **Overcome**, Creator and Producer, Bozeman, Montana.

- Art Installation of successful university faculty that have overcome difficulties.
- 2017 **Einstein's Gravity Playlist**, Creator, Producer and Script Writer, Bozeman, Montana. Original planetarium show. Distributed freely and made available to all planetaria in the world. Attendance at premiere: 110 with outreach activities developed and organized.
- 2017 **Astronomy on Tap**, Invited Speaker, Bozeman, Montana.
- 2016-2019 **NASA Summer Camp**, Content Advisor, Bozeman, Montana. Summer camp for K-12 students from low-income and rural areas in Montana. Assisted graduate students in developing curriculum for gravity session at camp. Attendance: 100 students, activities posted online.
- 2016 **Wonderlust Sidetrip**, Invited Speaker, Bozeman, Montana.
- 2015 **Sunrise Rotary Meeting**, Invited Speaker, Bozeman, Montana.
- 2013-2014 **Rhythms of the Universe I**. Creator and Principal Organizer. Interdisciplinary, outreach event with the MSU English Dept. and the MSU Performing Arts Dept. Undergraduate students were coached in physics, astronomy and English to encourage them to write original spoken-word poetry that used astrophysics as metaphorical tools. Event performed at the Emerson Cultural Center. Attendance: 1000 people, recorded by PBS.
- 2013 **TEDxBozeman**, Invited Speaker, Bozeman, Montana.
- 2012-2019 **Physics Bowl**. Creator and Organizer. Physics competition between teams composed of undergraduates, graduate students and postdoctoral researchers. Enhances spirit of collaboration and camaraderie in the department.
- 2011-2019 **STEM Mentor**. Served as mentor to K-12 students in Park High School, Livingston MT
- 2010-2014 **Celebrating Einstein**. Creator and PI. Interdisciplinary, mega-outreach event with the MSU School of Music, College of Letters and Sciences, College of Arts and Architecture, UCLA and Princeton. Redone in Texas (UTB) and Cambridge (MIT), with impact on over 70,000 people.
1. *Speaking of Einstein*. Lecture Series. Four internationally renowned scientists explained Einstein and his theories to the general public.
  2. *Black (W)hole*. Immersive art installation that conveyed the excitement of accretion disks, black holes and gravitational waves.
  3. *A Shout Across Time*. Multimedia show with a danced lecture, featuring a *Cirque du Soleil* aerialist, a commissioned music composition and film, featuring the scientific visualization of black hole collisions and the sounds of gravitational waves, as well as a live interview with a world-renowned scientist.
  4. *Einstein in the Schools*. Presentations on Einstein's theory of General Relativity and astrophysical phenomena, like black holes and neutron stars to K-12 schools.

## Commitment to Diversity

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### University Service

- 2018-2019 Founding member of the Diversity Committee, Physics Department, MSU.
- 2014-2017 Chair of the Recruitment Committee, Physics Department, MSU.
- 2014-2015 Member of the Diversity Committee, university-wide, MSU.
- 2017 Co-Organizer of the APS Conference for Undergraduate Women in Physics, MSU.

### Mentorship and Recruitment Trips

2018	Summer internship mentor of Jacob Stanton (African-American student from Brown).
2016–Present	Research mentor of Latin-American graduate student (Alejandro Cárdenas-Avendaño, Carlos Conde Ocazionez).
2019–2021	Research mentor of Latin-American undergraduate student (Nicolas Patinño).
2016–2017	Graduate adviser of Native American graduate student (Kyle Matt).
2011–Present	Research mentor of female graduate students (Katerina Chatziioannou, Toral Gupta, Laura Sampson, Sarah Vigeland, Caroline Owen, Kristen Schumacher).
2011–Present	Research mentor of female undergraduate students (Katie Chamberlain, Jaxen Godfrey).
2017	Latin-American Recruitment in Colombia (Bogotá, Medellín).
2007, 2018	Latin-American Recruitment in Argentina (Buenos Aires).

### Published Books

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- “Gravitational Waves in Physics and Astrophysics: An Artisan’s Guide,” M. Coleman Miller and N. Yunes, Institute of Physics, 2022.
- “Is Einstein Still Right? Black Holes, Gravitational Waves, and the Quest to Verify Einstein’s Greatest Creation”, Clifford M. Will and N. Yunes, Oxford University Press, 2021.

## List of Selected Presentations

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### Plenary Talks at Conferences and Workshops

- Plenary talk at the “Fundamental Physics Across the Gravitational-Wave Sky” Workshop, Kavli Institute for Cosmological Physics, Chicago, 2025.
- Plenary talk at the “Tales of Gravity” International Conference, Nottingham, 2025.
- Plenary talk at the Hong Kong Institute of Advanced Studies, Hong Kong, 2025.
- Plenary talk at the April Meeting of the American Physical Society, California, 2024.
- Plenary talk at Japanese General Relativity and Gravitation Meeting, Japan, 2023.
- Fundamental aspects of gravity, Imperial College, London, 2022.
- New frontiers in Strong Gravity, Benasque, Spain, 2022.
- Chern-Simons and other Topological Field Theories, MSRI Berkeley, 2021.
- 4th Global meeting of the GWVerse, Portugal, 2021
- Spanish-Portuguese Relativity Meeting, International Conference, Palencia Spain, 2018.
- LISA Symposium, International Conference, Chicago, 2018.
- Numerical Relativity beyond General Relativity, International Workshop, Benasque Spain, 2018.
- Gravity and Cosmology 2018, International Workshop, Kyoto Japan, 2018.
- International Conference on Quantum Gravity, International Conference, Shenzhen China, 2018.
- New Frontiers in Gravitational-Wave Astrophysics, International Conference, Rome Italy, 2017.
- The Strong Gravity Universe, International Workshop, Azores Portugal, 2017.
- Quantum Vacuum and Gravitation, International Workshop, Germany, 2017.
- Strong Bad, Workshop, Ole’ Miss, 2017.
- Experimental Search for Quantum Gravity, International Workshop, Germany, 2016.
- Physics at the Extreme, International Conference, Penn State, 2016.
- Seventh Meeting on CPT and Lorentz Symmetry, International Conference, Germany, 2016.
- GR@100, International Conference, Princeton Center for Theoretical Physics, Princeton, 2016.
- Cosmological Frontiers in Fundamental Physics, International Workshop, Perimeter Institute, 2016.
- Gravity and Experiment, International Workshop, Paris, 2016.
- Testing Gravity 2015, Workshop, Vancouver, Canada, 2015.
- Cosmological Frontiers in Fundamental Physics, Workshop, Paris, France, 2014.
- Testing General Relativity, Workshop, Ole’ Miss, Oxford, Mississippi, 2014.
- YKIS 2013, Conference, Kyoto Japan, 2013.
- Strong Gravity Workshop, Lisbon Portugal, 2013.
- LISA Symposium, Conference, Paris France, 2012.
- Sackler Conference, Cambridge MA, 2012.
- Rattle and Shine: Gravitational Wave and Electromagnetic Studies of Compact Binary Mergers, KITP Workshop, Santa Barbara, 2012.
- NR-HEP Workshop, Portugal, 2011.
- JGRG Conference, Japan, 2011.
- GWPAW Conference, Milwaukee, 2011.

- CAPRA-NRDA Workshop, Perimeter Institute, Canada, 2010.
- Astro-GR Workshop, Paris, France, 2010.

### **Departmental Colloquia**

- Physics Department, University of Oregon, 2023.
- Physics Department, Montana State University, 2022.
- Physics Department, University of Texas at Austin, 2022.
- Physics Department, Brigham Young University, 2022.
- Fermi Symposium, University of Chicago, 2020.
- Departamento de Física, Universidad de Medellín, Medellín, Colombia, 2018.
- Departamento de Física, Universidad de Bogotá, Bogotá, Colombia, 2018.
- Physics Department, University of Virginia, 2018.
- Physics Department, University of Florida, 2016.
- Physics Department, Columbia University, 2015.
- Physics Department, MSU, 2013.
- DAMPT, University of Cambridge, 2012.
- Astrophysics Department, Northwestern University, 2011.
- Physics Department, MSU, 2010.

### **Invited Talks at Conferences**

- Greek Relativity Meeting, International Conference, Rhodes Greece, 2018.
- International Conference on General Relativity (GR21), New York, 2016.
- General Relativity & Gravitation: A Centennial Perspective, International Conference, Penn State, 2015.
- Canadian Association of Physicists National Congress, Edmonton, Canada, 2015.
- Theory Canada Conference, Calgary, Canada, 2015.
- April APS Meeting, Savannah, Georgia, 2014.
- Experimental Search for Quantum Gravity Conference, Perimeter Institute, Canada 2012.
- April APS Meeting, Atlanta, Georgia, 2012.

### **Some Invited Talks at Universities**

- Mathematics Seminar, University of Michigan, 2017.
- High Energy Astrophysics Seminar, Johns Hopkins University, 2017.
- High Energy Physics Seminar, Brown University, 2017.
- Space Science Seminar, NASA Marshall Space Flight Center, 2017.
- Gravity Seminar, University of Wisconsin-Milwaukee, 2015.
- Nuclear Theory Seminar, Institute for Nuclear Theory, 2015.
- HEP Seminar, Penn State, 2014.
- APC, University of Paris, Paris, France, 2013.
- IAP/general relativityECO Seminar, Institute of Astrophysics, Paris, France, 2005, 2013.
- TAPIR Seminar, Caltech, 2010, 2013, 2014.
- ITC-Cfa Seminar, Harvard University, 2009, 2013.
- Joe Henry Lunch Seminar, Princeton University, 2012, 2014.

- GR and Astrophysics Seminar, University of Illinois – Urbana-Champaign, 2011.
- CCRG Seminar, Rochester Institute of Technology, 2011.
- Gravity Seminar, Princeton University, 2008, 2009.
- Nuclear and Particle Seminar, MIT, MA, 2007.

**Some Contributed Talks**

- April APS Meeting, Conference, Columbus, Ohio, 2018.
- April APS Meeting, Conference, Washington DC, 2017.
- April APS Meeting, Conference, Baltimore, Maryland, 2015.
- Relativity and Astrophysics Seminar, Montana State University, 2013.
- April APS Meeting, Conference, Denver, Colorado, 2013.
- Relativity and Astrophysics Seminar, Montana State University, 2012.

## List of Publications<sup>1</sup>

(postdoctoral and student mentees during publication appear in italics)

1. **“Sensitivity of neutron star observables to microscopic nuclear parameters of realistic equations of state,”**  
*N. Cruz-Camacho, C. Conde-Ocazonez, V. Dexheimer, J. Noronha-Hostler and N. Yunes,*  
[arXiv:2603.16019 [nucl-th]].
2. **“Impact of numerical-relativity waveform calibration on parametrized post-Einsteinian tests,”**  
*S. Mezzasoma, C. J. Haster and N. Yunes,*  
[arXiv:2603.15765 [gr-qc]].
3. **“Systematic biases in parameter estimation on LISA binaries. II. The effect of excluding higher harmonics for spin-aligned, high-mass binaries,”**  
*S. Yi, F. Iacovelli, E. Berti, R. S. Chandramouli, S. Marsat, D. Wadekar and N. Yunes,*  
[arXiv:2602.09088 [gr-qc]].
4. **“Cosmology of Gravi-Axions,”**  
*S. Alexander, G. Gabadadze, L. Jenks and N. Yunes,*  
[arXiv:2512.00154 [hep-ph]].
5. **“Universal Relations with Dynamical Tides,”**  
*J. A. Saes, A. Hegade K. R. and N. Yunes,*  
[arXiv:2511.19626 [gr-qc]].
6. **“Effects of Lighter-than-QCD Axions on Neutron Star Tidal Deformability,”**  
*Y. Kahn, M. Wentzel and N. Yunes,*  
[arXiv:2511.13812 [hep-ph]].
7. **“Analytic and accurate approximate metrics for black holes with arbitrary rotation in beyond-Einstein gravity using spectral methods,”**  
*K. K. H. Lam, A. K. W. Chung and N. Yunes,*  
Phys. Rev. D **113**, no.2, 024030 (2026)  
[<https://journals.aps.org/prd/abstract/10.1103/txxb-z8bx>]
8. **“A relativistic treatment of accretion disk torques on extreme mass ratio inspirals around spinning black holes,”**  
*A. Hegade K. R., C. F. Gammie and N. Yunes,*  
Phys. Rev. D **112**, no.12, 124068 (2025)  
[<https://journals.aps.org/prd/abstract/10.1103/g83s-jdld>]
9. **“Millilensing induced systematic biases in parameterized tests of General Relativity,”**  
*A. Liu, R. S. Chandramouli, O. A. Hannuksela, N. Yunes and T. G. F. Li,*  
Phys. Rev. D **112**, no.6, 064043 (2025)  
[<https://journals.aps.org/prd/abstract/10.1103/bsml-2rdh>]
10. **“Neural Post-Einsteinian Test of General Relativity with the Third Gravitational-Wave Transient Catalog,”**  
*Y. Xie, G. Narayan and N. Yunes,*  
[arXiv:2510.02515 [gr-qc]].
11. **“A relativistic treatment of accretion disk torques on extreme mass-ratio inspirals around**

<sup>1</sup> *Statistics.* Total of 291 papers: 5 exceptionally famous papers (+500 citations), 13 famous papers (250-499 citations) and 45 very well-known papers (100-249 citations), 10 review papers, and 1 general physics article. Total of 23,365 citations with an h-index of 88. These papers *exclude* papers where Yunes was a co-author in large collaborations, like LIGO and the LSC. All statistics calculated by inspirehep.net using the total number of papers submitted. See caveats at: <http://inspirehep.net/help>.

- non-spinning black holes,”**  
 A. Hegade K. R., C. F. Gammie and N. Yunes,  
 Phys. Rev. D **112**, no.12, 124012 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/9src-p7sp\]](https://journals.aps.org/prd/abstract/10.1103/9src-p7sp)
12. **“Spinning Black Holes in Modified Gravity via Spectral Methods,”**  
 K. K. H. Lam, A. K. W. Chung and N. Yunes,  
 Phys. Rev. Lett. **136**, no.2, 021401 (2026)  
[\[https://journals.aps.org/prl/abstract/10.1103/6z43-xdv7\]](https://journals.aps.org/prl/abstract/10.1103/6z43-xdv7)
13. **“Dark Matter Clumps as Sources of Gravitational-Wave Glitches in LIGO/Virgo/KAGRA data,”**  
 E. Alvarez, S. Perkins, *F. Ravanedo* and N. Yunes,  
 Phys. Rev. D **113**, no.4, 043058 (2026)  
[\[https://journals.aps.org/prd/abstract/10.1103/jwbc-s8j1\]](https://journals.aps.org/prd/abstract/10.1103/jwbc-s8j1)
14. **“Relativistic and Dynamical Love,”**  
 A. Hegade K. R., K. J. Kwon, T. Venumadhav, H. Yu and N. Yunes,  
 Phys. Rev. Lett. **136**, no.7, 071401 (2026). Editor’s Suggestion.  
[\[https://journals.aps.org/prl/abstract/10.1103/1wdp-6x27\]](https://journals.aps.org/prl/abstract/10.1103/1wdp-6x27)
15. **“Extreme mass-ratio inspiral within an ultralight scalar cloud I. Scalar radiation,”**  
 D. Li, C. Weller, P. Bourg, M. LaHaye, N. Yunes and H. Yang,  
 Phys. Rev. D **112**, no.8, 084057 (2025). Editor’s Suggestion.  
[\[https://journals.aps.org/prd/abstract/10.1103/719s-g21j\]](https://journals.aps.org/prd/abstract/10.1103/719s-g21j)
16. **“Probing quadratic gravity with black-hole ringdown gravitational waves measured by LIGO-Virgo-KAGRA detectors,”**  
 A. K. W. Chung and N. Yunes,  
[\[arXiv:2506.14695 \[gr-qc\]\]](https://arxiv.org/abs/2506.14695).
17. **“Can weak-gravity, causality-violation arguments constrain modified gravity?,”**  
 S. Alexander, H. Bernardo and N. Yunes,  
 Phys. Rev. D **112**, no.10, 104042 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/9bmy-qbwt\]](https://journals.aps.org/prd/abstract/10.1103/9bmy-qbwt)
18. **“Neutron star radial perturbations for causal, viscous, relativistic fluids,”**  
 D. A. Caballero and N. Yunes,  
 Phys. Rev. D **112**, no.6, 063050 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/cl4s-n7nr\]](https://journals.aps.org/prd/abstract/10.1103/cl4s-n7nr)
19. **“Black hole spectroscopy: from theory to experiment,”**  
 E. Berti, V. Cardoso, G. Carullo, J. Abedi, N. Afshordi, S. Albanesi, V. Baibhav, S. Bhagwat,  
 J. L. Blázquez-Salcedo and B. Bonga, *et al.*  
[\[arXiv:2505.23895 \[gr-qc\]\]](https://arxiv.org/abs/2505.23895).
20. **“Gravitational waves of quasi-circular, inspiraling black hole binaries in an ultralight vector dark-matter environment,”**  
 T. F. Chase, D. López Nacir and N. Yunes,  
 Phys. Rev. D **112**, no.10, 103511 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/rg4j-8wr9\]](https://journals.aps.org/prd/abstract/10.1103/rg4j-8wr9)
21. **“Highly-accurate neutron star modeling in the Hartle-Thorne approximation,”**  
 C. Conde-Ocazonez, T. Yin, J. Noronha-Hostler and N. Yunes,  
 Phys. Rev. D **112**, no.4, 044063 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/c3jx-5487\]](https://journals.aps.org/prd/abstract/10.1103/c3jx-5487)
22. **“Uncertainty-aware waveform modeling for high signal-to-noise ratio gravitational-wave**

- inference,”**  
*S. Mezzasoma, C. J. Haster, C. B. Owen, N. J. Cornish and N. Yunes,*  
 Phys. Rev. D **112**, no.4, 044057 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/hfq5-gryy\]](https://journals.aps.org/prd/abstract/10.1103/hfq5-gryy)
23. **“Perturbations of spinning black holes in dynamical Chern-Simons gravity: Slow rotation quasinormal modes,”**  
*D. Li, P. Wagle, Y. Chen and N. Yunes,*  
 Phys. Rev. D **112**, no.4, 044005 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/yfw6-32yl\]](https://journals.aps.org/prd/abstract/10.1103/yfw6-32yl)
24. **“Quasinormal mode frequencies and gravitational perturbations of spinning black holes in modified gravity through METRICS: The dynamical Chern-Simons gravity case,”**  
*A. K. W. Chung, K. K. H. Lam and N. Yunes,*  
 Phys. Rev. D **111**, no.12, 124052 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/g83n-rrlj\]](https://journals.aps.org/prd/abstract/10.1103/g83n-rrlj)
25. **“Constraining dark-sector effects using gravitational waves from compact binary inspirals,”**  
*C. B. Owen, A. Tucker, Y. Kahn and N. Yunes,*  
 Phys. Rev. D **111**, no.12, 124042 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/jpjd-4b1n\]](https://journals.aps.org/prd/abstract/10.1103/jpjd-4b1n)
26. **“The Stochastic Siren: Astrophysical Gravitational-Wave Background Measurements of the Hubble Constant,”**  
*B. Cousins, K. Schumacher, A. K. W. Chung, C. Talbot, T. Callister, D. E. Holz and N. Yunes,*  
[\[arXiv:2503.01997 \[astro-ph.CO\]\]](https://arxiv.org/abs/2503.01997).
27. **“Building neutron stars with the MUSES calculation engine,”**  
*M. Reinke Pelicer, N. Cruz-Camacho, C. Conde-Ocazonez, D. Friedenber, S. Roy, Z. Zhang, T. A. Manning, M. G. Alford, A. Clevinger and J. Grefa, et al.*  
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[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.103037\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.103037)
28. **“New test for superluminal gravitational wave polarizations,”**  
*K. Schumacher, C. Talbot, D. E. Holz and N. Yunes,*  
 Phys. Rev. D **112**, no.2, 024067 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/m7ns-f3jf\]](https://journals.aps.org/prd/abstract/10.1103/m7ns-f3jf)
29. **“Bayesian search of massive scalar fields from LIGO-Virgo-KAGRA binaries,”**  
*Y. Xie, A. K. W. Chung, T. P. Sotiriou and N. Yunes,*  
 Phys. Rev. Lett. **134**, no.19, 191402 (2025)  
[\[https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.134.191402\]](https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.134.191402)
30. **“Systematic biases in parametrized tests of general relativity due to waveform mismodeling: the impact of neglecting spin precession and higher modes,”**  
*R. S. Chandramouli, K. Prokup, E. Berti and N. Yunes,*  
 Phys. Rev. D **111**, no.4, 044026 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.044026\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.044026)
31. **“Improved Analytic Love-C Relations for Neutron Stars,”**  
*T. Lowrey, K. Yagi and N. Yunes,*  
 Phys. Rev. D **111**, no.2, 024075 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.024075\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.024075)
32. **“Radial Mode Stability of Two-Fluid Neutron Stars,”**  
*D. A. Caballero, J. L. Ripley and N. Yunes,*

- Phys. Rev. D **110**, no.10, 103038 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.103038\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.103038)
33. **“Gravitational-Wave Tests of General Relativity with Ground-Based Detectors and Pulsar-Timing Arrays,”**  
 N. Yunes, X. Siemens and K. Yagi,  
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[\[https://link.springer.com/article/10.1007/s41114-024-00054-9\]](https://link.springer.com/article/10.1007/s41114-024-00054-9)
34. **“Robust and improved constraints on higher-curvature gravitational effective-field-theory with the GW170608 event,”**  
 H. Liu and N. Yunes,  
 Phys. Rev. D **111**, no.8, 084049 (2025)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.084049\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.084049)
35. **“Dissipative tidal effects to next-to-leading order and constraints on the dissipative tidal deformability using gravitational wave data,”**  
 A. Hegade K. R., J. L. Ripley and N. Yunes,  
 Phys. Rev. D **110**, no.4, 044041 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.044041\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.044041).
36. **“Finding cosmic anisotropy with networks of next-generation gravitational-wave detectors,”**  
 B. Cousins, A. Dhani, B. S. Sathyaprakash and N. Yunes,  
 Phys. Rev. D **111**, no.10, 103530 (2025),  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.103530\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.103530)
37. **“Quasinormal mode frequencies and gravitational perturbations of black holes with any subextremal spin in modified gravity through METRICS: The scalar-Gauss-Bonnet gravity case,”**  
 A. K. W. Chung and N. Yunes,  
 Phys. Rev. D **110**, no.6, 064019 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.064019\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.064019).
38. **“Ringing out General Relativity: Quasinormal Mode Frequencies for Black Holes of Any Spin in Modified Gravity,”**  
 A. K. W. Chung and N. Yunes,  
 Phys. Rev. Lett. **133**, no.18, 181401 (2024)  
[\[https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.133.181401\]](https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.133.181401).
39. **“Possible Causes of False General Relativity Violations in Gravitational Wave Observations,”**  
 A. Gupta, K. G. Arun, E. Barausse, L. Bernard, E. Berti, S. A. Bhat, A. Buonanno, V. Cardoso,  
 S. Y. Cheung and T. A. Clarke, *et al.*,  
 doi:10.21468/SciPostPhysCommRep.5,  
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40. **“Neural post-Einsteinian framework for efficient theory-agnostic tests of general relativity with gravitational waves,”**  
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41. **“Dynamical tidal response of nonrotating relativistic stars,”**  
 A. Hegade K. R., J. L. Ripley and N. Yunes,  
 Phys. Rev. D **109**, no.10, 104064 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.104064\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.104064).

42. **“Efficient gravitational-wave model for fully-precessing and moderately eccentric, compact binary inspirals,”**  
*J. N. Arredondo, A. Klein and N. Yunes,*  
 Phys. Rev. D **110**, no.4, 044044 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.044044\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.044044).
43. **“Approximately universal I-Love- $\langle cs^2 \rangle$  relations for the average neutron star stiffness,”**  
*J. A. Saes, R. F. P. Mendes and N. Yunes,*  
 Phys. Rev. D **110**, no.2, 024011 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.024011\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.024011).
44. **“Birefringence tests of gravity with multimessenger binaries,”**  
*M. Lagos, L. Jenks, M. Isi, K. Hotokezaka, B. D. Metzger, E. Burns, W. M. Farr, S. Perkins, K. W. K. Wong and N. Yunes,*  
 Phys. Rev. D **109**, no.12, 124003 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.124003\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.124003).
45. **“New probe of gravitational parity violation through nonobservation of the stochastic gravitational-wave background,”** T. Callister, L. Jenks, D. E. Holz and N. Yunes,  
 Phys. Rev. D **111**, no.4, 044041 (2025)  
[\[arXiv:2312.12532 \[gr-qc\]\]](https://arxiv.org/abs/2312.12532).
46. **“A constraint on the dissipative tidal deformability of neutron stars,”**  
*J. L. Ripley, A. Hegade K. R., R. S. Chandramouli and N. Yunes,*  
 Nature Astron. **8**, no.10, 1277-1283 (2024)  
[\[https://www.nature.com/articles/s41550-024-02323-7\]](https://www.nature.com/articles/s41550-024-02323-7).
47. **“Spectral method for metric perturbations of black holes: Kerr background case in general relativity,”**  
*A. K. W. Chung, P. Wagle and N. Yunes,*  
 Phys. Rev. D **109**, no.4, 044072 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.044072\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.044072).
48. **“Perturbations of spinning black holes in dynamical Chern-Simons gravity: Slow rotation equations,”**  
*P. Wagle, D. Li, Y. Chen and N. Yunes,*  
 Phys. Rev. D **109**, no.10, 104029 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.104029\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.104029).
49. **“Isospectrality breaking in the Teukolsky formalism,”**  
*D. Li, A. Hussain, P. Wagle, Y. Chen, N. Yunes and A. Zimmerman,*  
 Phys. Rev. D **109**, no.10, 104026 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.104026\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.104026).
50. **“Nontrivial features in the speed of sound inside neutron stars,”**  
*D. Mroczek, M. C. Miller, J. Noronha-Hostler and N. Yunes,*  
[\[arXiv:2309.02345 \[astro-ph.HE\]\]](https://arxiv.org/abs/2309.02345).
51. **“Lyapunov exponents to test general relativity,”**  
*A. Deich, N. Yunes and C. Gammie,*  
 Phys. Rev. D **110**, no.4, 044033 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.044033\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.044033).
52. **“Gravitational wave polarizations with different propagation speeds,”**  
*K. Schumacher, N. Yunes and K. Yagi,* Phys. Rev. D **108**, no.10, 104038 (2023)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.104038\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.104038).

53. **“Probing internal dissipative processes of neutron stars with gravitational waves during the inspiral of neutron star binaries,”**  
*J. L. Ripley, A. Hegade K. R. and N. Yunes,*  
 Phys. Rev. D **108**, no.10, 10 (2023)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.103037\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.103037).
54. **“I-Love-Q relations in Einstein-aether theory,”**  
*K. Vylet, S. Ajith, K. Yagi and N. Yunes,*  
 Phys. Rev. D **109**, no.2, 024054 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.024054\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.024054).
55. **“Accuracy of the slow-rotation approximation for black holes in modified gravity in light of astrophysical observables,”**  
*P. A. Cano, A. Deich and N. Yunes,*  
 Phys. Rev. D **109**, no.2, 024048 (2024)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.024048\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.109.024048).
56. **“Parameterized Parity Violation in Gravitational Wave Propagation,”**  
*L. Jenks, L. Choi, M. Lagos and N. Yunes,*  
 Phys. Rev. D **108**, no.4, 044023 (2023)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.044023\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.044023).
57. **“Non-relativistic limit of first-order relativistic viscous fluids,”**  
*A. Hegade K. R., J. L. Ripley and N. Yunes,*  
 Phys. Rev. D **107**, no.12, 124029 (2023)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.107.124029\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.107.124029).
58. **“Untargeted Bayesian search of anisotropic gravitational-wave backgrounds through the analytical marginalization of the posterior,”**  
*A. K. W. Chung and N. Yunes,*  
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[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.043032\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.043032).
59. **“Gravitational wave constraints on Einstein-æther theory with LIGO/Virgo data,”**  
*K. Schumacher, S. E. Perkins, A. Shaw, K. Yagi and N. Yunes,*  
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[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.104053\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.104053).
60. **“Theoretical and Experimental Constraints for the Equation of State of Dense and Hot Matter,”**  
*R. Kumar et al. [MUSES],*  
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[\[https://link.springer.com/article/10.1007/s41114-024-00049-6\]](https://link.springer.com/article/10.1007/s41114-024-00049-6).
61. **“Gravitational Wave Memory Beyond General Relativity,”**  
*L. Heisenberg, N. Yunes and J. Zosso,*  
 Phys. Rev. D **108**, no.2, 024010 (2023)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.024010\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.024010).
62. **“Spectral Method for the Gravitational Perturbations of Black Holes: Schwarzschild Background Case,”**  
*A. K. W. Chung, P. Wagle and N. Yunes,*  
 Phys. Rev. D **107**, no.12, 124032 (2023)  
[\[https://journals.aps.org/prd/abstract/10.1103/PhysRevD.107.124032\]](https://journals.aps.org/prd/abstract/10.1103/PhysRevD.107.124032).
63. **“Report of the 2021 U.S. Community Study on the Future of Particle Physics (Snowmass 2021),”**  
*J. N. Butler, R. S. Chivukula, A. de Gouvêa, T. Han, Y. K. Kim, P. Cushman, G. R. Farrar,*

- Y. G. Kolomensky, S. Nagaitsev and N. Yunes, *et al.*  
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64. **“Waveform accuracy and systematic uncertainties in current gravitational wave observations,”**  
C. B. Owen, C. J. Haster, S. Perkins, N. J. Cornish and N. Yunes,  
Phys. Rev. D **108**, no.4, 044018 (2023)  
[<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.044018>].
  65. **“How do axisymmetric black holes grow monopole and dipole hair?”**  
A. H. K. R., E. R. Most, J. Noronha, H. Witek and N. Yunes,  
Phys. Rev. D **107**, no.10, 104047 (2023)  
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  66. **“Dark Matter or Regular Matter in Neutron Stars? How to tell the difference from the coalescence of compact objects,”**  
M. Hippert, E. Dillingham, *H. Tan*, D. Curtin, J. Noronha-Hostler and N. Yunes,  
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[<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.107.115028>].
  67. **“Where and why does Einstein-scalar-Gauss-Bonnet theory break down?”**  
A. H. K. R., *J. L. Ripley* and N. Yunes,  
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