

Curriculum Vitae

Luis R. Lehner

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1 Personal Data:

Name and Surname: Luis R. LEHNER

Marital Status: Married

Date of Birth: July 17th. 1970

Current Address: Perimeter Institute for Theoretical Physics,
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2 Education:

- Ph.D. in Physics; University of Pittsburgh; 1998.
Title: *Gravitational Radiation from Black Hole spacetimes.*
Advisor: Jeffrey Winicour, PhD.
- Licenciado en Física; FaMAF, Universidad Nacional de Córdoba; 1993.
Title: *On a Simple Model for Compact Objects in General Relativity.*
Advisor: Osvaldo M. Moreschi, PhD.

3 Awards, Honors & Fellowships

- “TD’s 10 most influential Hispanic Canadian” 2019.
- “Resident Theorist” for the Gravitational Wave International Committee 2018-present.
- Member of the Advisory Board of the Kavli Institute for Theoretical Physics (UCSB) 2016-2020.
- Executive Committee Member of the CIFAR programme: “Gravity and the Extreme Universe” 2017-present.
- Member of the Scientific Council of the ICTP South American Institute for Fundamental Research (ICTP-SAIFR) 2015-present.
- Fellow International Society of General Relativity and Gravitation, 2013-.
- Discovery Accelerator Award, NSERC, Canada 2011-2014.
- American Physical Society Fellow 2009-.
- Canadian Institute for Advanced Research Fellow 2009-.

- *Kavli-National Academy of Sciences Fellow* 2008, 2017.
- *Louisiana State University Rainmaker* 2008.
- *Baton Rouge Business Report Top 40 Under 40*. 2007.
- *Scientific Board Member of Teragrid-NSF*. 2006-2009.
- *Institute of Physics Fellow*. The Institute of Physics, UK, 2004 -.
- *Phi Kappa Phi Non-Tenured Faculty Award in Natural and Physical Sciences*. Louisiana State University, 2004.
- *Canadian Institute for Advanced Research Associate Member*, 2004 -.
- *Alfred P. Sloan Fellow* (2003-2005).
- *Canadian Institute for Theoretical Astrophysics National Fellow*, Canada (2001-2002).
- *Pacific Institute for Mathematical Sciences Fellow*, Canada (2000-2002).
- *Texas Institute for Computational and Applied Mathematics Research Fellow*. University of Texas at Austin (1999-2000), U.S.A.
- *APS Nicholas Metropolis Award*. For outstanding doctoral thesis work in Computational Physics (1999).
- *CGS/UMI Distinguished Dissertation Award*. For outstanding doctoral thesis work in the area of Mathematical, Physical Sciences and Engineering (1998).
- *Andrew Mellon Predoctoral Fellowship*, University of Pittsburgh, Pittsburgh, Pennsylvania, 1997-1998.
- *CONICOR (Cordoba Council of Science) fellowship*, Cordoba, Argentina 1993-1994.
- *Honor Prize*, Award for obtaining the highest average upon completion of the Licenciatura, Universidad Nacional de Cordoba, Argentina, 1993.

4 Professional Background:

1. **Perimeter Institute for Theoretical Physics**; Faculty Chair, 1/2018 - .
2. **Perimeter Institute for Theoretical Physics**; Deputy Faculty Chair, 11/2014 - 12/2017.
3. **Perimeter Institute for Theoretical Physics**; Senior Researcher, Waterloo, ON, Canada. 09/2012 - .
4. **University of Waterloo**; Adjunct Professor, Department of Physics, Waterloo, ON, Canada. 09/2014 - .
5. **University of Guelph**; Adjunct Professor, Department of Physics, Guelph, ON, Canada. 09/2012 - .
6. **University of Guelph**; Full Professor, Department of Physics, Guelph, ON, Canada. 05/2012 - 09/2012.
7. **University of Wisconsin-Milwaukee**; Adjunct Professor, Department of Physics, Milwaukee, WI, USA. 03/2011 - .
8. **Perimeter Institute for Theoretical Physics**; Associate Researcher, Waterloo, ON, Canada. 08/2009 - 09/2012.
9. **University of Guelph**; Associate Professor, Department of Physics, Guelph, ON, Canada. 08/2009 - 04/2012.
10. **Louisiana State University**; Associate Professor, Department of Physics and Astronomy, Baton Rouge, LA, USA. 08/2006 - 08/2009.
11. **Louisiana State University**; Assistant Professor, Department of Physics and Astronomy, Baton Rouge, LA, USA. 08/2002 - 07/2006.

12. **The University of British Columbia**; Postdoctoral Fellow, Department of Physics and Astronomy, Vancouver, BC, Canada 10/01/2000 until 07/31/2002.
13. **University of Texas at Austin**; Research Associate, Center for Relativity, Austin TX, USA from 09/01/1998 until 09/31/2000.
14. **University of Pittsburgh**; Research Associate, Department of Physics and Astronomy, Faculty of Arts and Sciences; Pittsburgh PA, USA from 05/01/1998 until 08/31/1998.
15. **University of Pittsburgh**; Graduate Student Researcher, Department of Physics and Astronomy, Faculty of Arts and Sciences; Pittsburgh PA, USA; from 01/01/1995 until 08/31/1997.
16. **University of Pittsburgh**; Teaching Assistant, Department of Physics and Astronomy, Faculty of Arts and Sciences; Pittsburgh PA, USA; from 09/01/1994 until 12/31/1994.
17. **FaMAF**, National University of Cordoba, Argentina; Teaching Fellow; from 01/04/93 until 08/10/94.
18. **FaMAF**, National University of Cordoba, Argentina; Teaching Assistant; from 04/01/91 until 31/03/93.

5 Research Funding:

1. Nonlinear gravity and multimessenger signals in the era of Gravitational Wave Astronomy. NSERC CAN\$ 350,000 (08/2017-07/2025). **Pi: L. Lehner, 100% share.**
2. Binary systems: bridging gravitational and electromagnetic observations. NSERC CAN\$ 295,000 (08/2011-07/2017). **Pi: L. Lehner, 100% share.**
3. DAS Supplement. NSERC CAN\$ 120,000 (08/2011-07/2014). **Pi: L. Lehner, 100% share.**
4. Gravity in strong regimes. NSERC CAN\$ 175,000 (08/2009-07/2014). **Pi: L. Lehner, 100% share.**
5. Research on Gravitational Radiation. CIFAR CAN\$ 20,000 yearly from 2008. **Pi: L. Lehner, 100% share.**
6. Collaborative Research: Simulating Neutron Star-Black Hole inspirals. From Binaries to Accretion and Jets. NSF \$300,000. **Pi: L. Lehner.** (08/01/2008-09/01/2011).
7. Next steps in binary simulations. NSF \$240,000. **Pi: L. Lehner, 100% share.** (08/01/2007-09/01/2010).
8. Collaborative Research: Simulating Neutron Star-Black Hole inspirals. From Binaries to Accretion and Jets. NSF \$80,000. **Pi: L. Lehner, 50% share.** (08/01/2007-09/01/2008).
9. Theoretical and Numerical investigations in classical & quantum gravity. NSF \$ 167,000. **Pi: L. Lehner, 50% share.** (08/01/2006-09/01/2007).
10. Black string simulations: Towards understanding their final fate. Research Corporation \$35,000. **Pi: L. Lehner, 100% share.** (09/03-09/08)
11. Collaborative ITR: Rigorous techniques in computational problems with distributed adaptive mesh refinement. NSF \$1,177,681. (09/03-08/07). (Part of a collaborative proposal funded with \$2,000,000; Lead PI:Lehner) **Pi: L. Lehner, 60% share of LSU portion.**
12. Dynamics of compact objects & gravitational wave simulations. NSF \$240,000. (09/03-08/07). **Pi: L. Lehner, 100% share.**
13. US-Germany Cooperative Research: On some fundamental issues in the initial boundary value problem of GR. NSF \$ 14,923. (09/03-08/06). **Pi: L. Lehner, 100% share.**
14. Travel support for School/Conference at International Center for Theoretical Physics. NSF \$5,000. (09/03-03/04). **Pi: L. Lehner, 100% share.**
15. US-SA Cooperative Research: Characteristic evolution of black hole-star binary systems. NSF \$26,823. (4/03-04/06). **Pi: L. Lehner, 100% share.**
16. Numerical modeling of gravitational wave sources for the LISA mission. NASA, \$310,000. (09/03-09/06). **Co-Pi, Pi: J. Pullin, 25% share.**

6 Publications

6.1 Journal Articles

underlined/boldfaced authors were postdoctoral fellows/students under my direction at the time

1. *Nonlinear/non-iterative treatment of EFT-motivated gravity*, **R. Cayuso** and L. Lehner, 2005.13720 (2020).
2. *Towards fidelity and scalability in non-vacuum mergers* S.L. Liebling, C. Palenzuela, L. Lehner. e-Print: 2002.07554 [gr-qc].
3. *Critical collapse of a scalar field in semiclassical loop quantum gravity* **Florencia Benitez**, Rodolfo Gambini, Luis Lehner, Steve Liebling, Jorge Pullin. Phys.Rev.Lett. 124 (2020) 7, 071301.
4. *Excited hairy black holes: dynamical construction and level transitions* **Pablo Bosch**, Stephen R. Green, Luis Lehner, **Hugo Roussille** e-Print: 1912.05598 [gr-qc].
5. *Fate of a neutron star with an endoparasitic black hole and implications for dark matter* William E. East, Luis Lehner. Phys.Rev.D 100 (2019) 12, 124026.
6. *The Large-Misalignment Mechanism for the Formation of Compact Axion Structures: Signatures from the QCD Axion to Fuzzy Dark Matter* Asimina Arvanitaki, Savas Dimopoulos, **Marios Galanis**, Luis Lehner, **Jedidiah O. Thompson** et al. e-Print: 1909.11665 [astro-ph.CO].
7. *Challenges to global solutions in Horndeski's theory* Laura Bernard, Luis Lehner, **Raimon Luna**. Phys.Rev.D 100 (2019) 2, 024011
8. *Towards the nonlinear regime in extensions to GR: assessing possible options.* **Gwyneth Allwright** and Luis Lehner. Class.Quant.Grav. 36 (2019) 8, 084001.
9. *Multi-Messenger Astrophysics: Harnessing the Data Revolution.* Gabrielle Allen et.al. arXiv:1807.04780 (2018).
10. *Hyperbolic theory of relativistic conformal dissipative fluids.* Luis Lehner, Oscar A. Reula, **Marcelo E. Rubio**. Phys.Rev. D97 (2018) no.2, 024013.
11. *Can we distinguish low mass black holes in neutron star binaries?* Huan Yang, William E. East, Luis Lehner. Astrophys.J. 856 (2018) no.2, 110.
12. *Neutron star mergers as a probe of modifications of general relativity with finite-range scalar forces.* Laura Sagunski, Jun Zhang, Matthew C. Johnson, Luis Lehner, Mairi Sakellariadou, Steven L. Liebling, Carlos Palenzuela, David Neilsen. Phys.Rev. D97 (2018) no.6, 064016.
13. *Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking* Huan Yang, Vasileios Paschalidis, Kent Yagi, Luis Lehner, Frans Pretorius, Nicolas Yunes Phys. Rev. D 97, 024049 (2018).
14. *Gravitational Wave Signatures of Highly Compact Boson Star Binaries.* Carlos Palenzuela, Paolo Pani, Miguel Bezares, Vitor Cardoso, Luis Lehner, Steven Liebling. Phys. Rev. D 96, 104058 (2017).
15. *Numerical Measurements of Scaling Relations in Two-Dimensional Conformal Fluid Turbulence*, **John Ryan Westernacher-Schneider** and Luis Lehner, JHEP V08 (2017) 027.
16. *Fixing extensions to General Relativity in the non-linear regime* **Juan Cayuso**, Nestor Ortiz, Luis Lehner, Phys. Rev. D 96, 084043 (2017)
17. *Black Hole Dynamics in Einstein-Maxwell-Dilaton Theory.* Eric Hirschmann, Luis Lehner, Steven L. Liebling and Carlos Palenzuela. Phys.Rev. D97 (2018) no.6, 064032 .
18. *End Point of the Ultraspinning Instability and Violation of Cosmic Censorship.* Pau Figueras, Markus Kunesh, Luis Lehner, Saran Tunyasuvunakool. Phys. Rev. Lett. 118, 151103 (2017).

19. *Black hole spectroscopy with coherent mode stacking.* Huan Yang, Kent Yagi, Jonathan Blackman, Luis Lehner, Vasileios Paschalidis, Frans Pretorius, Nicolas Yunes. Phys. Rev. Lett. 118, 161101 (2017).
20. *Unstable horizons and singularity development in holography.* **Pablo Bosch**, Alex Buchel, Luis Lehner. JHEP V07 (2017) 135.
21. *Estimating gravitational radiation from super-emitting compact binary systems* Chad Hanna, Matthew Johnson, Luis Lehner Phys. Rev. D 95, 124042 (2017).
22. *Gravitational action with null boundaries* Luis Lehner, Robert Myers, Eric Poisson, Rafael Sorkin Phys. Rev. D 94, 084046 (2016).
23. *The $m = 1$ instability & gravitational wave signal in binary neutron star mergers* Luis Lehner, Steven L. Liebling, Carlos Palenzuela, Patrick Motl, Phys. Rev. D 94, 043003 (2016).
24. *Unequal mass binary neutron star mergers and multimessenger signals* L. Lehner, S. L. Liebling, C. Palenzuela, O.L. Caballero, Evan O'Connor, M. Anderson and D. Neilsen. (2016).
25. *Nonlinear evolution and final fate of (charged) superradiant instability* **Pablo Bosch**, Stephen R. Green, Luis Lehner. Phys. Rev. Lett. 116, 141102 (2016).
26. *Scaling Relations in Two-Dimensional Relativistic Hydrodynamic Turbulence* **John Ryan Westernacher-Schneider**, Luis Lehner, Yaron Oz JHEP, V12, 067, (2015)..
27. *Islands of stability and recurrence times in AdS* Stephen R. Green, **Antoine Maillard**, Luis Lehner, Steven L. Liebling. Phys. Rev. D 92, 084001 (2015).
28. *Reply to "Comment on two-mode stability islands around AdS"* Alex Buchel, Stephen R. Green, Luis Lehner, Steven L. Liebling. Phys. Rev. Lett. 115, 049102 (2015).
29. *Effects of the microphysical Equation of State in the mergers of magnetized Neutron Stars With Neutrino Cooling* C. Palenzuela, S.L. Liebling, D. Neilsen, L. Lehner, O.L. Caballero, E. O'Connor, M. Anderson Phys. Rev. D 92, 044045 (2015).
30. *Magnetosphere of a Kerr black hole immersed in magnetized plasma and its perturbative mode structure.* Huan Yang, Fan Zhang, Luis Lehner. Phys. Rev. D 91, 124055 (2015).
31. *Coupled Oscillator Model for Nonlinear Gravitational Perturbations* Huan Yang, Fan Zhang, Stephen R. Green, Luis Lehner. Phys. Rev. D 91, 084007 (2015).
32. *Small black holes in $AdS_5 \times S^5$* Alex Buchel, Luis Lehner. Class.Quant.Grav. 32 (2015) 14, 145003.
33. *Turbulent black holes*, Huan Yang, Aaron Zimmerman, and Luis Lehner. Phys. Rev. Lett. 114, 081101, (2015).
34. *Conserved quantities and dual turbulent cascades in Anti-de Sitter spacetime* Alex Buchel, Stephen R. Green, Luis Lehner, Steven L. Liebling. Phys. Rev. D 91, 064026 (2015).
35. *Universality of non-equilibrium dynamics of CFTs from holography* Alex Buchel, Stephen R. Green, Luis Lehner, Steven L. Liebling. arXiv:1410.5381.
36. *Testing the nonlinear stability of Kerr-Newman black holes* Miguel Zilhó, Vitor Cardoso, Carlos Herdeiro, Luis Lehner, Ulrich Sperhake. Phys.Rev. D90 (2014) 12, 124088.
37. *Electromagnetic outflows in scalar-tensor theories vs General Relativity: binary neutron star coalescence.* Marcelo Ponce, Carlos Palenzuela, Enrico Barausse, Luis Lehner. Phys. Rev. D 91, 084038 (2015).
38. *Towards an understanding of the force-free magnetosphere of rapidly spinning black holes* Fan Zhang, Huan Yang, Luis Lehner. Phys. Rev. D 90, 124009 (2014).
39. *Projected Constraints on Scalarization with Gravitational Waves from Neutron Star Binaries.* **Laura Sampson**, Nicolas Yunes, Neil Cornish, Marcelo Ponce, Enrico Barausse, Antoine Klein, Carlos Palenzuela, Luis Lehner. Phys. Rev. D 90, 124091 (2014).

40. *Numerical Relativity and Astrophysics* Luis Lehner, Frans Pretorius. *Ann.Rev.Astron.Astrophys.* 52 (2014) 661-694.
41. *Interaction of misaligned magnetospheres in the coalescence of binary neutron stars* Marcelo Ponce, Carlos Palenzuela, Luis Lehner, Steven L. Liebling. *Phys. Rev. D* 90, 044007 (2014).
42. *Holographic Thermalization, stability of AdS, and the Fermi-Pasta-Ulam-Tsingou paradox* **Venkat Balasubramanian**, Alex Buchel, Stephen R. Green, Luis Lehner, Steven L. Liebling. *Phys. Rev. Lett.* 113, 071601 (2014)
43. *Magnetized Neutron Stars With Realistic Equations of State and Neutrino Cooling.* David Neilsen, Steven L. Liebling, Matthew Anderson, Luis Lehner, Evan O'Connor, Carlos Palenzuela. *Phys. Rev. D* 89, 104029 (2014)
44. *Holographic thermalization, quasinormal modes and superradiance in Kerr-AdS* Vitor Cardoso, Oscar J. C. Dias, **Gavin S. Hartnett**, Luis Lehner, Jorge E. Santos. *JHEP*, 183, N4, 2014.
45. *Simulating the universe(s): from cosmic bubble collisions to cosmological observables with numerical relativity* **Carroll L. Wainwright**, Matthew C. Johnson, Hiranya V. Peiris, Anthony Aguirre, Luis Lehner, Steven L. Liebling, JCAP03(2014)030.
46. *Collisions of oppositely charged black holes* **Miguel Zilho**, Vitor Cardoso, Carlos Herdeiro, Luis Lehner, Ulrich Sperhake. *Phys. Rev. D* 89, 044008 (2014).
47. *Dynamical scalarization of neutron stars in scalar-tensor gravity theories* C. Palenzuela, E. Barausse, M. Ponce, L. Lehner. *Phys. Rev. D* 89, 044024 (2014).
48. *A Holographic Path to the Turbulent Side of Gravity* S.R. Green, **F. Carrasco**, L. Lehner. *Phys. Rev. X* 4, 011001 (2014) .
49. *Linking electromagnetic and gravitational radiation in coalescing binary neutron stars* C. Palenzuela, L. Lehner, S.L. Liebling, M. Ponce, M. Anderson, D. Neilsen and P. Motl. *Phys. Rev. D* 88, 043011 (2013).
50. *A Post-Newtonian approach to black hole-fluid systems*, E. Barausse and L. Lehner, *Phys. Rev. D* 88, 024029 (2013).
51. *The Transient Gravitational-Wave Sky*, N. Andersson et.al. *Classical and Quantum Gravity*, V30, 19, (2013).
52. *Boson Stars in AdS* Alex Buchel, Steven L. Liebling, Luis Lehner arXiv:1304.4166 (2013). *Phys. Rev. D* 87, 123006 (2013).
53. *Quantum quenches of holographic plasmas* Alex Buchel, Luis Lehner, Robert C. Myers, **Anton van Niekerk**. arXiv:1302.2924 (2013).
54. *Gravitational and electromagnetic outputs from binary neutron star mergers*, C. Palenzuela, L. Lehner, et.al. arXiv:1301.7074. (2013) to appear in *Phys.Rev.Letters*.
55. *Neutron-star mergers in scalar-tensor theories of gravity*, Enrico Barausse, Carlos Palenzuela, Marcelo Ponce, Luis Lehner, *Phys. Rev. D* 87, 081506(R) (2013).
56. *Turbulent flows for relativistic conformal fluids in 2+1 dimensions*, **F. Carrasco**, L. Lehner, R. C. Myers, O. Reula and **A. Singh**, *Phys.Rev. D* 86 (2012) 126006.
57. *Scalar Collapse in AdS*, A. Buchel, L. Lehner and S. L. Liebling, *Phys.Rev. D* 86 (2012) 123011.
58. *Thermal quenches in $N=2^*$ plasmas* A. Buchel, L. Lehner and R. C. Myers. *JHEP* **1208**, 049 (2012)
59. *Collisions of charged black holes* **M. Zilhao**, V. Cardoso, C. Herdeiro, L. Lehner and U. Sperhake. arXiv:1205.1063 [gr-qc] *Phys. Rev. D* **85**, 124062 (2012)
60. *NR/HEP: roadmap for the future V.* Cardoso, et.al. arXiv:1201.5118. *Class. Quant. Grav.* **29**, 244001 (2012).

61. *Determining the outcome of cosmic bubble collisions in full General Relativity*, M.C. Johnson, H.V. Peiris and L. Lehner, Phys.Rev.D85:083516,2012.
62. *Intense Electromagnetic Outbursts from Collapsing Hypermassive Neutron Stars*, L. Lehner, C. Palenzuela, S.L. Liebling, C. Thompson, C. Hanna. Phys. Rev. D **86**, 104035 (2012)
63. *Boosting jet power in black hole spacetimes*, D. Neilsen, L. Lehner, C. Palenzuela, E. Hirschmann, Proceedings of the National Academy of Sciences, Vol. 108, no. 31, pp. 12641-12646 (2011).
64. *Robustness of the Blandford-Znajek mechanism*, C. Palenzuela, C. Bona, L. Lehner and O. Reula, Class & Quantum Grav. 28, 134007 (2011).
65. *Magnetospheres of Black Hole Systems in Force-Free Plasma*, C. Palenzuela, L. Lehner, S. Liebling & T. Garrett. Phys.Rev.D82:044045,2010.
66. *A generalized advection formalism for relativistic fluid simulations*, **J. Call**, J. Tohline and L. Lehner. Class & Quantum Grav. 27, 175002 (2010).
67. *Black Strings, Low Viscosity Fluids, and Violation of Cosmic Censorship*, L. Lehner & F. Pretorius. Phys.Rev.Lett.105:101102,2010.
68. *Dual Jets from Binary Black holes*, C. Palenzuela, L. Lehner & S.L. Liebling. Science, Vol. 329. no. 5994, 2010.
69. *Mergers of Magnetized Neutron Stars with Spinning Black Holes: Disruption, Accretion and Fallback* **S. Chawla**, M. Anderson, M. Besselman, L. Lehner, S. Liebling, P. Motl, D. Neilsen. Phys.Rev.Lett.105:111101,2010.
70. *Evolutions of Magnetized and Rotating Neutron Stars*, S.L. Liebling, L. Lehner, D. Neilsen and C. Palenzuela, Phys.Rev.D81:124023,2010.
71. *Vacuum Electromagnetic Counterparts of Binary Black-Hole Mergers*, **P. Mosta**, C. Palenzuela, L. Rezzolla, L. Lehner, Y. Yoshida, D. Pollney Phys.Rev.D81:064017,2010.
72. *Understanding possible electromagnetic counterparts to loud gravitational wave events: Binary black hole effects on electromagnetic fields*, C. Palenzuela, L. Lehner, S. Yoshida. Phys. Rev. D **81**, 084007 (2010).
73. *Binary black holes' effects on electromagnetic fields*, C. Palenzuela, M. Anderson, L. Lehner, S. L. Liebling and D. Neilsen. Phys. Rev. Letters (2009), **103**, 081101 (2009).
74. *Perturbed disks get shocked. Binary black hole merger effects on accretion disks*, **Miguel Megevand**, Matthew Anderson, Juhan Frank, Eric W. Hirschmann, Luis Lehner, Steven L. Liebling, Patrick M. Motl, David Neilsen. Phys. Rev. D. **80**, 024012 (2009).
75. *Beyond ideal MHD: towards a more realistic modeling of relativistic astrophysical plasmas*. C. Palenzuela, L. Lehner, O. Reula and L. Rezzolla. (2009). Mon. Not. R. Astron. Soc. **394**, 1727 (2009).
76. *Estimating total momentum at finite distances*. E. Gallo, L. Lehner and O. Moreschi. arXiv:0806.4340 (2008). Phys. Rev. D. **78**, 084027 (2008).
77. *Magnetized Neutron Star Mergers and Gravitational Wave Signals.*, M. Anderson, E. Hirschmann, L. Lehner, S. Liebling, P. Motl, D. Neilsen, Palenzuela and J. Tohline. Phys. Rev. Letters **100**, 191101 (2008).
78. *Constraint preserving boundary conditions for the Ideal Newtonian MHD equations*. M. Cecere, L. Lehner and O. Reula, Comput. Phys. Commun. **179**, 545 (2008).
79. *Estimating the final spin of a binary black hole coalescence*. A. Buonanno, L. Kidder and L. Lehner, Phys. Rev. D **77**, 026004 (2008).
80. *Simulating binary neutron stars: Dynamics and gravitational waves*, M. Anderson, E. Hirschmann, L. Lehner, S. Liebling, P. Motl, D. Neilsen, C. Palenzuela and J. Tohline. Phys. Rev. D **77**, 024006 (2008).
81. *Orbiting boson stars: dynamics & waveform comparisson with compact objects* C. Palenzuela, L. Lehner & S. Liebling. Phys. Rev. D **77**, 044036 (2008).

82. *Learning about compact binary merger: the interplay between numerical relativity and gravitational-wave astronomy* T. Baumgarte, P. Brady, L. Lehner, F. Pretorius & R. DeVoe. *Phys. Rev. D* **77**, 084009 (2008).
83. *Dealing with delicate issues in waveforms calculations.* L. Lehner & O. Moreschi. *Phys. Rev. D* **76**, 124040 (2007).
84. *Do unbounded bubbles ultimately become fenced inside a black hole?* F.S. Guzman, L. Lehner and O. Sarbach, *Phys. Rev. D* **76**, 066003 (2007).
85. *Scalar field confinement as a model for accreting systems*, M. Megevand, I. Olabarrieta and L. Lehner, *Class. Quantum Grav.* **24** 3235 (2007).
86. *Head-on collisions of Boson Stars* C. Palenzuela, I. Olabarrieta, L. Lehner & S. Liebling *Phys. Rev. D* **75**, 064005 (2007).
87. *AMR, stability and higher accuracy* L. Lehner, S. L. Liebling and O. Reula, *Class. Quantum Grav.* **23** (2006) S421-S445.
88. *Arbitrary black-string deformations in the black string - black hole transitions.* M. Anderson, L. Lehner and J. Pullin, *Phys. Rev. D* **73**, 064011 (2006).
89. Geometrically motivated hyperbolic coordinate conditions for numerical relativity: Analysis, issues and implementations C. Bona, L. Lehner and C. Palenzuela. *Phys. Rev. D* **72** (2005) 104009.
90. *Multi-block simulations in general relativity: high order discretizations, numerical stability, and applications*, L. Lehner, O. Reula and M. Tiglio. *Class. Quantum Grav.* **22** 5283-5321 (2005).
91. Initial data for matter and gravity in characteristic numerical relativity, N. Bishop, R. Gomez, L. Lehner, M. Maharaj and J. Winicour. *Phys. Rev. D* **72**, 024002 (2005).
92. The 3-dimensional Einstein-Klein-Gordon system in characteristic numerical relativity. W. Barreto, A. Da Silva, R. Gomez, L. Lehner, L. Rosales and J. Winicour. *Phys. Rev. D* **71**, 064028 (2005).
93. A numerical examination of an evolving black string horizon D. Garfinkle, L. Lehner and F. Pretorius. *Phys. Rev. D* **71**, 064009 (2005)
94. Critical bubbles and implications for critical strings, O. Sarbach and L. Lehner. *Phys. Rev. D*, **71** 026002 (2005).
95. Summation by parts and dissipation for domains with excised regions. G. Calabrese, L. Lehner, O. Reula, O. Sarbach and M. Tiglio. *Class. Quantum Grav.* **21** 5735-5757 (2004).
96. The discrete energy method in numerical relativity: Towards long-term stability. L. Lehner, D. Neilsen, O. Reula and M. Tiglio. *Class. Quantum Grav.* **21** 5819-5848 (2004).
97. 3D simulations of Einstein's equations: symmetric hyperbolicity, live gauges, and dynamic control of the constraints, M. Tiglio, L. Lehner and D. Neilsen. *Phys. Rev. D*, **70** 104018 (2004).
98. AMR in characteristic numerical relativity, F. Pretorius and L. Lehner. *J.Comput.Phys.*, **198** (2004).
99. No naked singularities in homogeneous, spherically symmetric bubble spacetimes?. O. Sarbach and L. Lehner. *Phys. Rev. D.-Rapid Communications-*, **69**, 021901(R), (2004).
100. A numerical relativistic model of a massive particle in orbit near a Schwarzschild black hole, N. Bishop, R. Gomez, S. Husa, L. Lehner & J. Winicour. *Phys. Rev. D* **68**, 084015 (2003).
101. Mode coupling in the nonlinear response of black holes. Y. Zlochower, R. Gomez, S. Husa, L. Lehner and J. Winicour. *Phys. Rev. D* **68**, 084014 (2003).
102. Novel finite difference techniques applied to black hole excision, G. Calabrese, L. Lehner, D. Neilsen, J. Pullin, O. Reula, O. Sarbach and M. Tiglio. *Class. Quantum Grav.*, **20**, L1-L7, (2003).
103. The final fate of a black string, M. Choptuik, L. Lehner, I. Olabarrieta, F. Pretorius, R. Petryk and H. Villegas. *Phys. Rev. D* **68**, 044001 (2003).

104. Energy and angular momentum radiated for non head-on binary black hole collisions, *O. Moreschi, A. Perez and L. Lehner Physical Review D* **66**, 104017 (2002).
105. Gravitational Waves from a Fissioning White Hole, *R. Gomez, S. Husa, L. Lehner and J. Winicour, Physical Review D* **66**, 064019 (2002).
106. Boundary conditions in unconstrained numerical relativity, *G. Calabrese, L. Lehner and M. Tiglio. Physical Review D* **65**, 104031 (2002).
107. Numerical Relativity. A review (*Invited Topical Review*), *L. Lehner. Class. Quantum Grav.*, **18**, R25 (2001).
108. Grazing Collisions of Black Holes via the Excision of Singularities, *S. Brandt et. al., Physical Review Letters* **85**, 5496 (2000).
109. Causal differencing in ADM/CADM formulations: a 1D comparison, *L. Lehner, M. Huq and D. Garrison, Physical Review D* **62**, 084016 (2000).
110. Towards stable evolutions of excised black hole spacetimes with the ADM equations, *L. Lehner, M. Huq, M. Anderson, E. Bonning, D. Schaefer and R. Matzner, Physical Review D* **62**, 44037 (2000).
111. Approximate Analytical Solutions to the Initial value Problem of Black Hole Binary Systems, *P. Marronetti, M Huq., L. Lehner, R. Matzner and D. Shoemaker, Physical Review D* **62**, 024017 (2000).
112. Matching characteristic codes: Exploiting two directions, *L. Lehner, International Journal of Modern Physics D*, **V9 N4**, 459 (2000).
113. Gravitational radiation, black holes and the characteristic formulation of G.R., *L. Lehner , Computer Physics Communications* **127**, 43 (2000).
114. Exact solutions for the Intrinsic Geometry of Black Hole Coalescence, *L. Lehner, N. Bishop, R. Gomez, B. Szilagyi & J. Winicour, Phys. Rev. D* **60**, 044005 (1999).
115. Matter in the characteristic formulation of numerical relativity., *N. T. Bishop, R. Gomez, L. Lehner, M. Maharaj & J. Winicour, Phys. Rev. D* **60**, 024005 (1999).
116. Existence and uniqueness of solutions to characteristic evolution in Bondi-Sachs coordinates in general relativity, *S. Frittelli and L. Lehner, Phys. Rev. D* **59**, 084012 (1999).
117. On a dissipative algorithm for wave-like equations in the characteristic formulation, *L. Lehner; Journal of Computational Physics*, **149**, **N1** , 59 (1999).
118. Stable evolution of generic 3-d black holes, *The Binary Black Hole Grand Challenge Alliance; Phys. Rev. Letters*, **80**, 3915 (1998).
119. Boosted 3-dimensional black hole evolutions with singularity excision, *The Binary Black Hole Grand Challenge Alliance; Phys. Rev. Letters*, **80**, 2512 (1998).
120. Moving Black Holes in 3D, *R. Gomez, L. Lehner, R. Marsa & J. Winicour; Phys. Rev. D* **57**, 4778, (1998).
121. Gravitational wave extraction and outer boundary conditions by perturbative matching, *The Binary Black Hole Grand Challenge Alliance; Phys. Rev. Letters*, **80**, 1812 (1998).
122. A Simple Model for Compact Objects in General Relativity, *O.M. Moreschi & L. Lehner; Chinese Journal of Physics*, **36**, 1 (1998).
123. High powered gravitational news, *N. T. Bishop, R. Gomez, L. Lehner, M. Maharaj & J. Winicour; Phys. Rev. D* **56 N10**, (1997).
124. The eth formalism in numerical relativity, *R. Gomez, L. Lehner, P. Papadopoulos & J. Winicour; Class. Quantum Grav.*, **14**, 977 (1997).
125. The complete spectrum of the Area from Recoupling Theory in Loop Quantum Gravity, *S. Frittelli, L. Lehner & C. Rovelli; Class. Quantum Grav.*, **13**, 2921 (1996).

126. Cauchy-characteristic extraction in numerical relativity, *N. T. Bishop, R. Gomez, L. Lehner & J. Winicour; Phys. Rev. D*, **54** N10, 6153 (1996).
127. Gravitational Instability of a Kink, *W. Barreto, R. Gomez, L. Lehner & J. Winicour; Phys. Rev. D*, **54** N6, 3834 (1996).
128. On the Definition of Center of Mass for a system of relativistic particles, *L. Lehner and O. M. Moreschi; J. Math. Phys.*, **36**, 3377 (1995).

6.2 Book Chapters

- *Probing Strong Field Gravity Through Numerical Simulations*. Matthew W. Choptuik, Luis Lehner, Frans Pretorius. in "General Relativity and Gravitation: A Centennial Perspective", eds. A. Ashtekar, B. Berger, J. Isenberg and M. A. H. MacCallum. (Cambridge University Press), 2015.
- *Final State of Gregory-Laflamme Instability*, L. Lehner and F. Pretorius, "Black Holes in Higher Dimensions", in "Black Holes in Higher Dimensions", Cambridge University Press (editor: G. Horowitz)
- *Recent analytical and numerical techniques applied to the Einstein equations*. D. Neilsen, L. Lehner, O. Sarbach and M. Tiglio. "Analytical and Numerical Approaches to Mathematical Relativity", Lecture Notes in Physics **V692**, Springer Verlag, Berlin, 2006.
- *Cauchy-Characteristic Matching*, N. Bishop, R. Gomez, R. Isaacson, L. Lehner, B. Szilagyi & J. Winicour. In *Black Holes, Gravitational Radiation and the Universe*, eds. Bala Iyer & Biplab Bhawal (Kluwer, 1998).

6.3 Refereed Proceedings Contributions

1. *Status quo and open problems in the numerical construction of spacetimes*, L. Lehner & O. Reula. (Invited article for the Proceedings of *50 years of the Cauchy problem in Einstein's theory of gravitation*). Cargese, Corsica, July 29-August 10, 2002. (Workshop Organizers: P. Cruschiel and H. Friedrich)
2. *Numerics of the Characteristic formulation of GR*, L. Lehner, in Proceedings of Conference The Conformal Structure of Spacetimes: Geometry, Analysis, Numerics, Tuebingen, Germany. J. Frauendiener and H. Friedrich Eds. (Springer Verlag, Berlin, November 2002).

6.4 Non-refereed proceedings contributions

- *Recent analytical and numerical techniques applied to the Einstein equations*, D. Neilsen, L. Lehner, O. Sarbach and M. Tiglio. To appear in the Proceeding of the March-2004 Heraeus Seminar in Bad Honnef, Germany. (2004).
- *Numerical Relativity: Status and Prospects*, L. Lehner, in Proceedings of the 16th International Conference on General Relativity and Gravitation; Durban, South Africa, 15 - 21 July 2001 (World Scientific, Singapore, 2002).
- *Simulations of Moving Black Holes*, L. Lehner, in Proceedings of Conference on Astrophysical Black Holes, Los Alamos NM, (1997).
- *Moving Black Holes in 3D*, L. Lehner, in Proceedings of the Seventh Midwest Relativity Meeting, Saint Louis MO, USA, (1997).

6.5 Editor

- First special issue on Numerical Relativity. "*Invited papers on numerical relativity, related to the Banff International Research Station programme 16-21 April 2005 and the Newton Institute programme 8 August 23 December 2005*". Class. Quantum Grav. 23, (2006). C. Gundlach and L. Lehner editors.

6.6 Reports to Newsletters

1. *Numerical construction of spacetimes*. *Pacific Institute for the Mathematical Sciences*. Vol 7. Issue 1 (2003).
2. *Existence and uniqueness of solutions to the characteristic evolution in General Relativity*, BBH Alliance Newsletter. August 8, 1998.
3. *Boosting a Black Hole*, BBH Alliance Newsletter. December 1, 1997.
4. *Moving a Black Hole on a 3D Grid*, BBH Alliance Newsletter. August 8, 1997.

7 Invited Presentations at Congresses and Workshops

1. *New vistas for Numerical Relativity in GW Binaries*, GR 22, Valencia, Spain, June 2019.
2. *Black hole spectroscopy & other surprises*, Black Hole Initiative III Conference, Boston, Ms, May 2019.
3. *The black hole image*. *GRAV19*, Cordoba, Argentina, April 2019.
4. *Electromagnetic counterparts opportunities in compact binary mergers*. Friends of Friends Meeting, Cordoba, Argentina, April 2019.
5. *Lectures in Numerical Relativity*. 3rd *SCHOOL OF GENERAL RELATIVITY AND GRAVITATIONAL WAVES*, Playa del Carmen, Mexico, Nov 2018.
6. *Fundamental physics in strong gravity*. 3G Science with Gravitational Waves, Golm, Germany, Aug 2018.
7. *“The Dawn of Gravitational Wave Science” MITP Workshop*. Mainz June 12, 2018.
8. *Numerical Relativity beyond GR* “Numerical Relativity beyond GR” Workshop. Benasque June 06, 2018.
9. *Binary black holes and tests of gravity* Lake Cuomo “Waves on the Lake” School. May 28 - June 1, 2018.
10. *New Vistas in Binary Black Holes*. April APS Meeting, Columbus, United States, Feb. 2018.
11. *Beyond standards in theory and compact objects for gravitational wave astronomy* Banff, AB. CIFAR Cosmology and Gravity Meeting. Feb 2-4, 2018.
12. *The gravitational window to our universe: opportunities and challenges* XXXVIII Brazilian National Meeting on Particles and Fields. Passa Quatro, Brazil, Sept 18-21, 2017.
13. *Facing the challenge of testing GR, and extensions, with gravitational waves* Spanish-Portuguese Relativity Meeting, Malaga, Sept 12-16, 2017
14. *Facing the challenge of testing GR, and extensions, with gravitational waves* Strong Gravity Universe, Sao Miguel, Azores, Portugal, Jul 2-7, 2017.
15. *Round Table Discussion on Gravity Waves* The era of gravitational-wave astronomy. Paris, 26-30 June, 2017, Institut Astrophysique de Paris.
16. *Gravitational Wave Astronomy: Status, Promises and Challenges*, TASI 2017 “Physics at the Fundamental Frontier”. Boulder, Colorado, (two lectures on June 8th and 9th, 2017).
17. *Multimessenger astronomy with binary neutron stars* Atlantic GR 17, St John’s, NL, Canada. June 1st, 2017.
18. *Surprises in nonlinear gravity and implications* Atlantic GR 17, St John’s, NL, Canada. June 2nd, 2017.
19. *Facing extensions to GR in strong field, dynamical regimes*. Bangs, Bounces, Black Holes, and Bubbles: Where General Relativity meets Cosmology Workshop. PCTS, Princeton, May 11-12, 2017.
20. *Facing the challenge of testing gravity in the nonlinear regime* Lake Louise, AB. CIFAR Cosmology and Gravity Meeting. March 17-19, 2017.

21. *Gravitational waves: Theory*. Lake Louise Winter Institute, Lake Louise, AB. Feb 19-25, 2017.
22. *Gravitational Wave Astronomy* Israeli-American Symposium. Kavli Frontiers of Science Symposium. February 13-15, 2017. National Academy of Sciences.
23. *Opportunities & challenges in gravitational wave astronomy for addressing practical and fundamental questions*. New Frontiers in Gravitational Radiation, University of Pennsylvania, Philadelphia, Dec 9-10, 2016.
24. *Non-vacuum binaries* Physics and Astrophysics at the eXtreme Workshop. Penn State, Dec-1-3, 2016.
25. *Summary and future directions in GW astronomy*. Foundations of the Theory of Gravitational Waves. 911 October 2016.
26. *Next challenges in gravitational wave astronomy*, Astrophysics from LIGO's First Black Holes. KITP, University of California Sta Bba, Sta Bba, Ca, Aug 1-12 2016.
27. *Surprises in (nonlinear) gravity*, 21st International Conference on General Relativity and Gravitation, New York, USA, July 15, 2016.
28. *Rattle and shine by compact binaries mergers in the era of gravitational wave astronomy*, Canadian Conference On General Relativity and Relativistic Astrophysics, Vancouver, BC, Canada, July 9th, 2016.
29. *Rattle and shine by compact binaries mergers in the era of gravitational wave astronomy*, Canadian Higher Education Information Technology/High Performance Conference, Edmonton, AB, Canada, June 20, 2016.
30. *Instabilities in AdS. Weak turbulence, turbulence and superradiance* Numerical Methods for AdS spaces, Technion, Haifa, Israel, May 22, 2016.
31. *Surprises in (nonlinear/strong) gravity*, Third Argentinian-Brazilian Meeting, CBPF, Rio de Janeiro, Brazil, April 29th, 2016.
32. *Rattle and shine by compact binaries mergers* 28th Texas Symposium on Relativistic Astrophysics, Geneva, Switzerland, Dec 13-18 (2015).
33. *Lifting the veil of the gravitational universe* 100 years of General Relativity and International Year of Light Symposium, Edmonton, AB, Nov 27th, 2015.
34. *Electromagnetic and gravitational signatures from compact binary mergers* CosmoSur III, Cordoba, Argentina, Aug 3-7 2015.
35. *Final fate of black strings* Singularities in General Relativity, Fields Institute, University of Toronto, May 28th, 2015.
36. *Probing Strong Field Gravity through Numerical Simulations* General Relativity and Gravitation, A Centennial Perspective. Penn State University, State College, PA, June 7-12 (2015).
37. *Numerical relativity of strongly gravitating systems: Methods and results* Perturbations Methods in General Relativity, Fields Institute, University of Toronto, May 28th, 2015.
38. *Unraveling General Relativity in Strongly Gravitating Regimes Through Simulation* Seven Pines Symposium XIX, Stillwater, Minnesota, 1317 May 2015
39. *Garys larger dimensions on Numerical Relativity and his turbulent influence*, GaryFest, University of California, Santa Barbara, May 1-2, 2015.
40. *Rattle and shine by compact binaries mergers*, Grav15, La Falda, Argentina, April 13-17, (2015).
41. *Compact binary systems and their role in astrophysics* Compact Objects as Astrophysical and Gravitational Probes from 2 Feb 2015 through 6 Feb 2015.
42. *Thermalization, turbulence and tensions: musings from the gravity side* CERN-CKC TH Institute on Numerical Holography. December 8-18 (2014).
43. *Turbulence to black holes and back again*, New Frontiers in dynamical gravity. Center for Mathematical Sciences. DAMTP, Cambridge, March 24 28, 2014.

44. *Holographic path to turbulence in gravity and back*, Quantum Anomalies and Hydrodynamics: Applications to Nuclear and Condensed Matter Physics. Simons Center for Geometry and Physics. Stony Brook, NY, February 17-21, 2014.
45. *The turbulent side of gravity* Holography: from gravity to quantum matter. Newton Institute for the Mathematical Sciences, Sept 16-20. Cambridge, UK, 2013.
46. *Loud and Bright: gravitational and electromagnetic energy output from compact binaries*, Gravitational Waves: Revolution in Astronomy and Astrophysics, Yukawa Institute for Theoretical Physics, Japan, June 3-7, 2013.
47. *Probing inner regions of black hole accretion systems. Panel discussion co-leader* Revealing Radiative Processes Near Black Holes, 1-3 May 2013.
48. *Electromagnetic counterparts and the turbulent side of gravity*, Strong Gravity Beyond GR Workshop, Lisbon, Portugal, March 4-8, 2013.
49. *Electromagnetic counterparts*, CIFAR, Cosmology & Gravity Annual Meeting, Banff, Canada, Feb 15-17, 2013.
50. *AdS/CFT applications in dynamical settings. Holographic Thermalization*. Lorentz Center, Leiden, Netherlands, Oct 8 - 12th 2012.
51. *Agujeros Negros por todos lados: desde astrofísica a hidrodinámica*, 94 Reunion Nacional de la Asociación de Física Argentina, Carlos Paz, Cordoba, Sept 25th -Sept 28th, 2012.
52. *Gravitational and electromagnetic emissions from compact systems: the fun is just beginning*, Gravitational Wave Astronomy Workshop. Johannesburg, South Africa, May 31st -June 1st, 2012.
53. *Towards electromagnetic counterparts to loud gravitational events: facts, fictions and possible surprises*, Invited talk at "Connecting the Electromagnetic and Gravitational Wave Skies in the Era of Advanced LIGO" Princeton Center for Theoretical Sciences, Princeton (April 30th 2012-May 4th 2012).
54. *Higher dimensional gravity and black holes* Invited focused talk at 2012 April APS meeting. Atlanta, Ga.
55. *Black holes and membranes: From jets to cosmic censorship*, The State of the Universe Cambridge, UK, 1/2012.
56. *Black holes and membranes: From jets to cosmic censorship*. International Meeting of General Relativity, Goa, India, 12/2011.
57. *Final fate of black strings, Numerical Relativity Beyond Astrophysics*, ICMS, Edinburgh, Scotland, 07/2011
58. *High powered jets from black hole spacetimes*, HEPRO III, Barcelona, Spain, 06/2011.
59. *Black holes and membranes: From astrophysics to cosmic censorship violation*, BHVIII, Niagara Falls, Canada, 04/2011.
60. *Black holes and membranes: From astrophysics to cosmic censorship violation*, Grav 11, Cordoba, Argentina, 04/2011.
61. *Black holes and membranes: From astrophysics to cosmic censorship violation*, CIFAR Annual Meeting, Whistler, Canada, 03/2011.
62. *High powered jets from black hole spacetimes*, Black Holes Workshop, IPMU, Koshima, Japan, 02/2011.
63. *Finally the final fate of the black string* *Black Holes in Higher Dimensions*. Imperial College, London, UK. September 2010.
64. *Numerical Relativity as a discovery tool*, (Plenary Speaker). Spanish Relativity Meeting (ERE 2010), Granada, Spain, September 2010.
65. *Electromagnetic counterparts to loud gravitational wave events* (Plenary Speaker). LISA Symposium, Stanford, July 2010.

66. *Unorthodox approach to electromagnetic fields for compact binaries*, Computational Relativistic Astrophysics Conference. Princeton Center for Theoretical Physics. Princeton, NJ., Jan 2010.
67. *Binary black hole systems and their electric counterparts*, Gravitational Wave Bursts Workshop, Chichen-Itza, Mexico; Dec 2009.
68. *Compact binary systems as engines of light: gravity meets electromagnetic fields*, Computational Relativistic Astrophysics Conference. Princeton Center for Theoretical Physics. Princeton, NJ., Oct 2009.
69. *Black hole binaries as inducers of light*. Shining light on Black Holes Workshop, University of Michigan, Ann Arbor., Sept 2009.
70. *Gravitational Waves, Neutron Stars and then some...* 13th Canadian Conference in General Relativity and Relativistic Astrophysics. University of Calgary, May 16-18th 2009.
71. *Combining electromagnetic and gravitational wave bands in compact systems* Black Holes VII. Banff, Canada, May 11-15th 2009.
72. *Numerical Relativity and its new crusades* Valencia, Spain, Sept 15 2008.
73. *Numerical Relativity and a new frontier: Connecting the see with the unseen* Jena, Germany, June 14 2008.
74. *Binary black hole neutron star simulations*, APS, Saint Louis, Ms, April 2008.
75. *Interfacing GR and MHD with full dynamical AMR*, Scidac All Hands Meeting, Stanford, Ca, April 7 2008.
76. *Dynamics of magnetized neutron star binaries*, CIFAR Cosmology and Gravity meeting. Stanford, Ca, March 9, 2008.
77. *Beyond Black Hole Binaries in numerical relativity* CITA/CIFAR Focus Group on Gravitational Waves and Numerical Relativity. Toronto, Canada, Sept 28-31st, 2007.
78. *Numerical Relativity beyond vacuum scenarios* CITA/CIFAR Focus Group on Gravitational Waves and Numerical Relativity. Toronto, Canada, Sept 28-31st, 2007.
79. *Beyond Black Hole Binaries: 4D Stars and 5D Bubbles* Annual Cosmology and Gravity Programme Meeting. Whistler, B.C. Canada, May 9 - May 13, 2007.
80. *Next steps in the simulation of binary systems*. "From Geometry to Numerics". IHP Paris, 20-24 Nov. 2006.
81. *Numerical black hole simulations*. Newton Institute Programme on Mathematical General Relativity in 2005. August 22 - 26, 2005.
82. *Next Steps in the simulation of Einstein equations*. Numerical Relativity Meeting at the University of Southampton. August 17 - 18, 2005.
83. *Analyzing the dynamics of compact objects*. in "Grand Challenge Problems in Computational Astrophysics", Institute for Pure & Applied Mathematics, UCLA, May 2nd- 6th 2005.
84. *Numerical simulation of the GL instability*. in "New Horizons: GR Beyond 4D", Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada. April 12-16 2004.
85. *Simulation of Black Hole binaries: pushing computational methods to extreme regimes*, APS April Meeting, Focussed talk, Montreal, Qc, Canada. March 24 2004.
86. *Numerical and mathematical challenges in the simulation of Einstein equations*. 319th WE-Heraeus-Seminar: "Mathematical Relativity: New Ideas and Developments" Physikzentrum BadHonnef, Germany. March 1st-5th 2004.
87. *Next Steps in the simulation of Einstein equations*. Brownsville. Dec 13-15th 2003.
88. *Approaches to Numerical Relativity*. Talk at the Gravitational interaction of compact objects. Santa Barbara, California. 12-14 May, 2003.

89. *Testing Strong-Field Gravity Using Black Holes*. Talk at the 2003 CIAR Cosmology/Gravity Program Meeting, Mnt Tremblant, Qc, Canada. 14-18 March, 2003.
90. *The numerical construction of spacetimes*, Talk at the program *50 years of the Cauchy problem in Einstein's theory of gravitation*. Cargese, Corsica, France. July 29-August 10, 2002.
91. *Outer boundary issues in Numerical Relativity*. Talk at the "Hot Topics Workshop: Numerical Relativity". Institute for Mathematics and its Applications. Minneapolis, MN, USA. 24-29 June 2002.
92. *Merger Phase Simulations of Binary Systems: Status*, Invited talk at LIGO Scientific Collaboration Meeting, Livingston, La, USA. 20-23 March 2002.
93. *Numerical Relativity: Status and Prospects*, Plenary talk at the 16th International Conference on General Relativity and Gravitation; Durban, South Africa, 15 - 21 July 2001.
94. *Colliding Black Holes: Status and Prospects*, Focussed session talk at the American Physical Society Meeting, Washington D.C., USA. April 28 - May 1, (2001).
95. *The numerics of the characteristic initial value problem*, The conformal Structure of Spacetimes Geometry, Analysis and Tuebingen, Germany, April 1- 5, 2001.
96. *Numerical Relativity: a laboratory for General Relativity*. Third Annual PIMS PDF Workshop, Vancouver, BC, Canada, December 9-10, (2000).
97. *Simulating Binary Black Hole Collisions*. Mathematical Issues in Numerical Relativity Institute for Theoretical Physics, Santa Barbara, California, U.S.A, January 8-28 (2000).
98. *Analytical aspects of the characteristic formulation of G.R.* Mathematical Issues in Numerical Relativity Institute for Theoretical Physics, Santa Barbara, California, U.S.A, January 8-28 (2000).
99. *Matching characteristic codes: Getting 2 birds with (almost) the same stone*. The GRACE Workshop, Albert Einstein Institute, Golm, Germany, December 6-7 (1999).
100. *Radiacion Gravitatoria, Agujeros Negros y la formulacion caracteristica de Relatividad General*, Numerical Relativity Workshop. Universidad de Oriente, Cumana, Venezuela, 1-6 April (1999).
101. *Agujeros Negros chocando fabrican roscas*, Numerical Relativity Workshop. Universidad de Oriente, Cumana, Venezuela, 1-6 April (1999).
102. *Gravitational Radiation, Black Holes and the characteristic formulation of G.R.*, APS Centennial Meeting, Atlanta GA, USA, 20-26 March (1999).
103. *Bagels form when black holes collide*, APS Centennial Meeting, Atlanta GA, USA, 20-26 March (1999).
104. *Gravitational Radiation from Black Hole spacetimes*, CGS 38th Annual Meeting, Vancouver BC, Canada, 9-12 December (1998).

8 Communications at Congresses and Workshops

1. *Compact binary systems in General Relativity*. International Meeting of General Relativity and Gravitation, Sydney, Australia July 8th-15th 2007.
2. *3D simulations of Einstein's equations: symmetric hyperbolicity, live gauges and dynamic control of the constraints*. April Meeting of the APS, Denver, Co, USA, April, (2004).
3. *Black hole-star systems in characteristic G.R.* April Meeting of the APS, Philadelphia, PA, USA, April, (2003).
4. *Towards the final fate of the black string*. April Meeting of the APS, Albuquerque, NM, USA, April 20-23, (2002).
5. *Boundary conditions in unconstrained numerical relativity*. April Meeting of the APS, Albuquerque, NM, USA, April 20-23, (2002).
6. *Black hole-star simulations in full G.R.*. April Meeting of the APS, Albuquerque, NM, USA, April 20-23, (2002).

9 Seminars & Colloquims

1. *Beyond GR, addressing (some) challenges* ICTP-SAIFR, Sao Paulo, Brazil, Feb 5, 2020.
2. *Challenges and new opportunities in gravitational wave astronomy* Cornell University, October 21, 2019.
3. *Gravitational Waves: Promises, realities and puzzles* Penn State University Physics Colloquium, PSU, March 22, 2018.
4. *Gravitational Waves: Promises, realities and puzzles* Stanford Institute for Theoretical Physics Colloquium, Stanford, Feb 26, 2018.
5. *Surprises in (strong/non linear) gravity* AlbaNova Colloquium, University of Stockholm, Oct 6, 2016.
6. *The strong gravity regime and its key role in physics* Albert Einstein Institute, Golm & Hannover, Germany, August 15 & 16, 2016.
7. *Surprises in (nonlinear) gravity* Colloquim at Technion, Haifa, Israel, May 23, 2016.
8. *Rattle and shine by compact binaries mergers in the era of gravitational wave astronomy*, Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro, Brazil, April 26th, 2016.
9. *Rattle and shine in the era of gravitational wave astronomy* IGA, UNESP. Sao Paulo, March 31st, 2016.
10. *Rattle and shine by compact binaries mergers* ICTP SAIFR. Sao Paulo, Feb 2nd, 2016.
11. *Surprises in (strong/non linear) gravity* Caltech Physics, Mathematics and Astronomy Colloquim, Pasadena, California, Nov 5, 2015.
12. *(In)estabilidad de AdS, turbulencia y el teorema de KAM: en donde esta y adonde va(?)*. FaMAF. National University of Cordoba, Argentina. August 20, 2015.
13. *Gravitational and (Possible) Electromagnetic Signals from Compact Binaries* HEP-Astro Seminar. University of Michigan, Jan 12, 2015.
14. *Further physics in the dynamics of binary neutron stars*. FaMAF. National University of Cordoba, Argentina. August 22, 2014
15. *Turbulent black holes*. Institute d'Astrophysique de Paris, Paris, July 15, 2014.
16. *The turbulent side of gravity and back*. Tel Aviv University, Tel Aviv, Israel, Jan 22, 2014.
17. *Gravitational and Electromagnetic Signals from compact binaries* University of California, Santa Cruz. Nov 14, 2013.
18. *Gravitational and Electromagnetic Signals from compact binaries* York University, Toronto, Canada. Nov 4, 2013.
19. *Gravitational and Electromagnetic Signals from compact binaries* IAP, Paris, France. Oct 25, 2013.
20. *Gravitational and Electromagnetic Signals from compact binaries* SISSA, Trieste, Italy. Oct 22, 2013.
21. *The turbulent side of gravity* ICTP, Trieste, Italy. Oct 21, 2013.
22. *AdS (in)stability and the turbulent side of gravity* DAMPT, Cambridge University, July 3, 2013.
23. *Hurricanes Lead to Gravitational Tornadoes and Surprises from Holography*, Pennsylvania State University, State College, PA, Nov 6th, 2012.
24. *Loud and Bright: gravitational and electromagnetic signals from compact binary systems*, Pennsylvania State University, State College, PA, Nov 5th, 2012.
25. *Black holes and membranes, from astrophysics to cosmic censorship*, University of Pittsburgh, Pittsburgh, PA, May 21st, 2012.
26. *Gravitational waves, promises and challenges to fulfill them*, University of Toronto, March 9th, 2012.

27. *Gravitational waves, adding the score to a beautiful movie*, Mc Gill University, Montreal, Qc. January 18, 2011. [colloquim].
28. *Black objects, from astrophysics to string theory and perhaps our bathtubs*, University of Waterloo, Waterloo, ON. October 20, 2010. [colloquim].
29. *Black objects, from astrophysics to string theory and perhaps our bathtubs*, University of Western Ontario. London, ON, Canada. September 29, 2010. [colloquim].
30. *Membranas por todos lados National University of Cordoba*, July 2010. [colloquim].
31. *Ondas gravitatorias. La sinfonia del universo*. University of Morelia, May 2010. [colloquim].
32. *Gravitational waves. The symphony of our universe*. University of Indiana at Kokomo. March 2010. [colloquim].
33. *Electromagnetic counterparts in binary systems*. Rochester Institute of Technology. Feb 2010.
34. *Turning a page on gravity, understanding its role and testing it in extreme scenarios*. University of California at Berkeley, April 2nd, 2009.
35. *Turning a page on gravity, understanding its role and testing it in extreme scenarios*. University of Mississippi, Feb 24th, 2009.
36. *Estimando el momento angular en la colision the agujeros negros desde primeros principios*, National University of Cordoba, Cordoba, Argentina 2008.
37. *Numerical Relativity and a new frontier: Connecting the seen with the unseen* CITA, University of Toronto, Toronto, Canada, June 17th 2008.
38. *Gravitational waves. Adding the audio-track to a wonderful movie*. University of Guelph, Guelph, Canada, May 12th 2008.
39. *Numerical Relativity and a new frontier: Connecting the seen with the unseen*. UCSD, San Diego, CA, April 25th 2008.
40. *Numerical Relativity and a new frontier: Connecting the seen with the unseen*. Caltech, Pasadena, CA, April 23rd 2008.
41. *Numerical Relativity and a new frontier: Connecting the seen with the unseen*. University of Wisconsin-Milwaukee, Milwaukee, April 4th 2008.
42. *Binary systems, gravitational waves and then some*. North Carolina State University. Raleigh, NC, Nov 12 2007.
43. *Cuerpos compactos y burbujas en Relatividad* National University of Cordoba, Argentina. Jul 22nd 2007.
44. *Next steps in the simulation of binary systems* University of Florida, October 21st 2006.
45. *Many directions to a black hole*, University of California at San Diego, April 13th 2006.
46. *Black String Instabilities: End state and dynamics*, KITP, University of California at Santa Barbara, January 27th 2006.
47. *Understanding strongly gravitating systems through computational laboratories*. Colloquim at the University of Tuebingen, Tuebingen (Germany) October 21 2005.
48. *Gravitational waves, deciphering their content*. Colloquim at the Navy Research Laboratories. Washington, June 2nd 2005.
49. *Numerical Relativity, Spherical Cows & Beyond*, Kavli Institute for Theoretical Physics. Black board lunch, June 2nd 2003.
50. *Spherical Cows & Beyond: Simulating Strongly Gravitating Systems*, Penn State University, April 14th 2003.

51. *Spherical Cows & Beyond: Simulating Strongly Gravitating Systems*, University Texas at Austin, Feb 21st 2003.
52. *Spherical Cows & Beyond: Simulating new, old and borrowed Strongly Gravitating Systems*, University of Illinois at Urbana-Champaign, Feb 5th 2003.
53. *The characteristic formulation of G.R.*, California Institute of Technology, Pasadena, Ca., November 25 2002.
54. *Towards obtaining the final fate of the black string*, Perimeter Institute, Waterloo, ON. Canada, May 27 2002.
55. *Towards elucidating the final fate of the black string*, California Institute of Technology, Pasadena, Ca., January 25 2002.
56. *Numerical Relativity: Promises, Status, Challenges and Prospects*, California Institute of Technology, Pasadena, Ca., January 18 2002.

10 Supercomputing Grants

- *Electromagnetic counterparts to loud gravitational waves*. Scinet. 2010,2011,2012,2013,2014,2015,2016,2017.
- *AMR in General Relativity*. Teragrid, July 2006 -Jun 30 2007.
- *Novel Computational and Numerical Techniques for Numerical Relativity*. PHY040027N. July 13 2004-Jun 30 2005.
- *Binary Black Holes and Gravitational Radiation* Advanced Computing Center for Engineering & Science. The University of Texas at Austin (5000 hours). July 2000 - June 2001.
- *BH-NS simulations via characteristic evolution*. Alburquerque High Performance Computing Center (4000 hours). April 2000 - March 2001.

11 Scientific and service Activities

- Co-organizer of Convergence, Perimeter Institute, June 22-24 2015.
- Co-organizer of Focus Program on 100 Years of General Relativity, Fields Institute, University of Toronto, May-June 2015.
- International Meeting in General Relativity, chair of sessions on Numerical Relativity and Astrophysical Applications, July 8-13, 2013.
- Co-organizer of “Numerical Relativity” workshop, International Centre for Theoretical Sciences, June 10-Jul 5, 2013. Bangalore, India.
- Co-Organizer of “Chirps, Mergers and Explosions” workshop, KITP, UCSB, Sta Bba, July-September 2012.
- Co-Organizer of “Exploring AdS/CFT in dynamical settings” workshop, Perimeter Institute June 2012.
- Elected APS Fellow, 2011
- Co-Organizer of Microphysics in Relativistic Astrophysics Workshop, Perimeter Institute June 2011.
- Blue Ribbon Panel Member for: LIGO oversight (2010), LIGO-Australia Proposal (2010), LIGO-India Proposal (2011,2012).
- Co-Organizer of NRDA-CAPRA Workshop, Perimeter Institute June 2010.
- APS Nicholas Metropolis Award Selection Committee Chair, 2010.
- Elected member at large for the Topical Group of Gravitation, APS, 2009

- Invited to the National Academy of Sciences ‘Kavli Frontiers of Science’ symposium. Irvine, California, December 2008.
- APS Nicholas Metropolis Award Selection Committee member, 2007-2010.
- NSF - Visualization Panelist Member and Final Report Author. 2008.
- NSF - Teragrid Scientific Advisory Board. 2006-.
- NSF - HPC Working Group Team Leader and Final Report Author. 2005.
- Invited to the Mathematical and Physical Sciences “Town Meeting” on High Performance Computing. UIUC, Oct 17th 2005.
- Co-editor of a *Class. Quantum Gravity* special edition in Numerical Relativity. To appear 2006 (Editors: C. Gundlach and L. Lehner).
- Co-Organizer of the Numerical Relativity workshop at the Newton Institute, Cambridge U.K (with H. Friedrich and I. Rodnianski) August 2005..
- Classical & Quantum Gravity Editorial Board Member, 2003-2005.
- Invited to the Mathematical and Physical Sciences workshop on: Cyberscience in Service to the Mathematical and Physical Sciences. NSF Washington April 21st 2004.
- Program committee member of the Division of Computational Physics, 2003.
- Member of the Scientific Organizing Committee of the *Caltech visitors program in the numerical simulation of gravitational wave sources*. Pasadena, CA, 2002-2003. (Committee Chair: L. Lindblom).
- Co-Organizer of the Numerical Relativity session at the APS for April 2004.
- Pacific Institute for Theoretical Physics (University of British Columbia) member.
- BH/BH Merger Source Analysis Facilitator. Gravitational Wave Analysis Groups of the Ligo Scientific Collaboration.
- Organizer of the focussed session on Numerical Relativity of the program *50 years of the Cauchy problem in Einstein’s theory of gravitation*. Cargese, Corsica, July 29-August 10, 2002. (Workshop Organizers: P. Cruschiel and H. Friedrich).
- Co-organizer of the KITP Program on *Gravitational Interaction of Compact Objects*, Institute for Theoretical Physics, UCSB, Santa Barbara, CA. May 12, 2003 to July 12, 2003. (Organizers: Matthew Choptuik, Eanna Flanagan and L. Lehner).
- Co-organizer of a Banff International Research Program on *Mathematical issues in Numerical Relativity*, April 2005. (Organizers: Doug Arnold, Matthew Choptuik, L. Lehner, Randy LeVeque and Eitan Tadmor)
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- Co-organizer of the KITP Program on *Scanning New Horizons: GR Beyond Four Dimensions*, Kavli Institute for Theoretical Physics, UCSB, Santa Barbara, CA. January-March 2006. (Organizers: Donald Marolf, Robert Myers and L. Lehner).
- Co-organizer of the “Numerical Relativity meets Data Analysis” meeting. MIT November 2006. (Organizers: T. Baumgarte, P. Brady, S Finn, L. Lehner, F. Pretorius and B. Whiting).
- Co-organizer of the KITP Program on *Interplay between numerical relativity and data analysis*, Kavli Institute for Theoretical Physics, UCSB, Santa Barbara, CA. January 2008. (Organizers: P. Brady, L. Lehner and S. Teukolsky).

12 Referee and Reviewer Activities

- *Physical Letters.*
- *Physical Review D.*
- *Classical and Quantum Gravity.*
- *Journal of High Energy Physics.*
- *Proceedings of the Royal Society.*
- *Monthly Notices of the Royal Astronomical Society.*
- *General Relativity & Gravitation.*
- *Journal of Computational Physics.*
- *American Journal of Physics.*
- *Ad-Hoc Reviewer of NSF Grants.*
- *Panelist Reviewer of NSF Grants.*
- *NSERC Grants Reviewer.*
- *European Research Council Reviewer.*
- *Research Corporation Grants Reviewer.*
- *Israel Science Foundation Grants Reviewer.*
- *Austrian Science Fund (FWF) Reviewer.*
- *New Zealand Science Foundation Reviewer.*
- *Czech Science Foundation Reviewer.*
- *Belgium Science Foundation Reviewer.*
- *Argentina Science Foundation Reviewer.*
- *Brazil Science Foundation Reviewer.*

13 Student affairs

Courses taught

- General Relativity & Astrophysics (3 lectures), Center for Computational Astronomy, Flat Iron Institute, July 2019.
- Binary black holes and tests of gravity (4 lectures) Lake Cuomo “Waves on the Lake” School. May 28 - June 1, 2018.
- Introduction to Numerical Relativity for Astrophysics and Holography (5 lectures, 3 labs). Universidad de Concepcion, November, 2017.
- Plasma in strongly dynamical systems. IAS-PITP, July 2016.
- A first course in Numerical Relativity. ICTP-SAIFR, March 26th - April 1st, 2016..
- AdS/CFT (reading course). (University of Guelph) Winter 2012.
- Explorations in Numerical Relativity. (Perimeter Institute) Winter 2012.
- Introduction to Classical Mechanics. (University of Guelph) Fall 2011.

- Explorations in Numerical Relativity. (Perimeter Institute) Winter 2011.
- Introduction to Classical Mechanics. (University of Guelph) Fall 2010.
- Explorations in Numerical Relativity. (Perimeter Institute) Winter 2010.
- Physics of the Biological Sciences. (University of Guelph) Fall 2009.
- Mathematical Methods for Physicists. (LSU) Spring 2009.
- Introduction to Classical Mechanics. (LSU) Fall 2008.
- Mathematical Methods for Physicists. (LSU) Spring 2008.
- Introduction to Classical Mechanics. (LSU) Fall 2007.
- Mathematical Methods for Physicists. (LSU) Spring 2007.
- Physics for Technical Students. (LSU) Fall 2006.
- Physics for Technical Students. (LSU) Fall 2005.
- Computational Physics. (LSU) Spring 2005.
- Physics for Technical Students. (LSU) Fall 2004.
- Classical Electrodynamics II. (LSU). Fall 2003.
- Computational Physics. (LSU) Spring 2003.
- Introduction to Numerical Relativity. Universidad de Oriente, Venezuela. April 1-10 1999.
- Elementary Physics II. National University of Cordoba, (Spring 1994).
- Elementary Physics I. National University of Cordoba, (Fall 1993).
- Methods of Mathematical Physics. National University of Cordoba, (Spring 1992).
- Classical Mechanics. National University of Cordoba, (Fall 1992).

PhD Thesis Examiner

- Damian Galante, Western University, London, 2016.
- Peter Zimmerman, University of Guelph, Guelph, 2015.
- Miguel Zilhao, University of Aveiro, Portugal, 2011.
- Roman Gold, University of Jena, Germany, 2010.
- Jonathan Hackett, University of Waterloo, 2009.
- Naorem Jugeshwor, Tezpur University, India, 2006.
- Yadav, Aniruddha, Louisiana State University, 2005.
- Elizabeth Stark, Monash University, Australia 2004.
- Shang Li Ou, Louisiana State University, 2004.
- Gioel Calabrese, Louisiana State University, 2003.

(Primary) Supervisor of the following students (period 08/03-)

- Miguel Megevand. (Louisiana State University). PhD. obtained 2009.
- Sarvnpun Chawla (Louisiana State University). PhD. (deceased) .
- Michael Barriault (University of Guelph). Masters thesis 2011.

- Eileen Manion Fisher (Perimeter Institute). Masters thesis 2011.
- John Westernacher-Schneider (University of Guelph). Masters thesis 2012-2014.
- Shannon Potter (University of Guelph). Master thesis 2012-2014
- Shannon Potter (University of Guelph). Honor thesis
- Christopher Skoog (University of Guelph). Honor thesis, 2009-2010.
- Jennifer Kliever (University of Guelph). Honor thesis, 2010-2011.
- Ryan Plestid (University of Guelph). Honor thesis, 2012.
- Federico Carrasco (University of Cordoba, Argentina). Graduate Fellow at PI, 2012
- Mighel Zilhao (University of Lisbon). Graduate Fellow at PI, 2012
- Daniel Fernandez (University of Barcelona, Spain). Graduate Fellow at PI, 2013
- Brian Yee (University of Guelph). Honor thesis, 2012-2013.
- Wilke van der Schee (Utrecht University). Graduate Fellow at PI, 2013
- Xinyu Li (University of Waterloo), MSc 2013, Perimeter Scholars International.
- Antoine Maillard (Ecole Normal). Graduate Fellow at PI, 2015
- Perseas Christodoulidis (University of Waterloo), MSc 2015, Perimeter Scholars International.
- Tiffany Vlaar (University of Waterloo), MSc 2016. Perimeter Scholars International.
- Juan Cayuso (University of Waterloo), MSc 2017. Perimeter Scholars International.
- John Westernacher-Schneider (University of Guelph). PhD 2014-2017.
- Gwyneth Allwright (University of Waterloo), MSc 2018. Perimeter Scholars International.
- Ramiro Cayuso (University of Waterloo), MSc 2019. Perimeter Scholars International.
- Pablo Bosch-Gomez (University of Waterloo), PhD, 2015-2020.
- Ramiro Cayuso (University of Waterloo), PhD, 2019-present.
- Guillaume Dideron (University of Waterloo), PhD, 2019-present.

Co-Supervisor of the following students (period 08/03-)

- Jay Call. (Louisiana State University). PhD, 2011.
- Thomas Madler, (Max Planck Institute for Astrophysics). PhD, 2011.
- Heather Reeve-Black MSc 2010, Perimeter Scholars International
- Nicholas White MSc 2015, Perimeter Scholars International
- Boris Georviev (University of Waterloo), MSc, 2015-2017.
- Boris Georviev (University of Waterloo), PhD, 2017-present.

Co-supervisor of the following students (period 8/98-10/00)

- Matt Anderson (Advisor: R. Matzner, The University of Texas at Austin), PhD, 2004..
- Erin Bonning (Advisor: R. Matzner, The University of Texas at Austin), PhD, 2004..
- Scott Caveny (Advisor: R. Matzner, The University of Texas at Austin), PhD, 2004..

14 Postdocs Supervised

- Nestor Ortiz Perimeter Institute for Theoretical Physics, 2014-.
- Stephen Green Perimeter Institute for Theoretical Physics, 2014-.
- Huan Yang, Perimeter Institute for Theoretical Physics, 2013-.
- Stephen Green (CITA National Fellow 2012-2014).
- Enrico Barausse (CITA National Fellow 2011-2012). Now permanent CNRS researcher. France.
- Marcelo Ponce (Postdoc at Univ. of Guelph, 2011-2014). Now at SCINET. Canada.
- Travis Garrett Postdoc at LSU (2008-2009) and Perimeter Institute (2009-2010). (Now in the private sector).
- Carlos Palenzuela Postdoc at LSU (2005-2008). Now faculty at the University of the Balearic Islands, Spain.
- Patrick Motl. Postdoc at LSU (2005-2008). (Now at Indiana University).
- Ignacio Olabarrieta. Postdoc at LSU (2004-2006). (Now at Robotik, Spain).
- Matthew Anderson. Postdoc at LSU (2004-2007). (Now Senior Research Associate at University of Indiana).
- Olivier Sarbach. Postdoc at LSU (2002-2004). (Now Associate Professor at Universidad the Michoacana, Mexico).
- David Neilsen. Postdoc at LSU (2002-2005). (Now Associate Professor at BYU).
- Jason Ventrella. Postdoc at LSU (2002-2004). (Now at the private sector)

Mentor of the following postdoctoral fellows at PI

- Nestor Ortiz, 08/2014-.
- Huan Yang, 08/2013-.
- Chad Hanna, 08/2011 - 1/2014.
- Flavio Mercatti 08/2012 - .
- Stephen Green 08/2014 - .
- Denis Bashkirov 08/2013 - .
- Edwin Stoudemire 08/2013 - .

15 Memberships

- International Society for General Relativity and Gravitation
- APS member.
 - . Topical Group: Gravitation.
 - . Division of Computational Physics.
- Argentina Physical Society.
- CASCA

16 Languages

- Fluency in: Spanish (native speaker) and English

Luis R. Lehner