

Curriculum Vitae

JUAN MARTÍN MALDACENA

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Education and Professional Experience

- 2001 - present, Professor at the Institute for Advanced Study
- 1999-2001 Professor of Physics at Harvard University.
- 1998-1999 Tomas D. Cabot Associate Professor at Harvard University.
- 1997, Visiting Associate Professor at Harvard University.
- 1996-1997: Research Associate (post-doc) at Rutgers University.
- 1992-1996 Ph.D. Program at Princeton University. Ph.D. advisor C. Callan.
- 1988-1991 Student at Instituto Balseiro from the Universidad de Cuyo, Bariloche, Argentina. “Licenciatura” supervised by G. Aldazabal.
- 1986-1988 Student at the University of Buenos Aires, Argentina.

Professional Societies and Other Activities

- Member of The World Academy of Sciences (TWAS)
- Member of the National Academy of Sciences
- Member of the Committee for the Mathematical Sciences in 2025 Study of the National Academy of Sciences
- Member of the American Physical Society
- Member of the American Academy of Arts and Sciences
- Member of the Scientific Council for the International Center for Theoretical Physics
- Member of the steering committee for the ICTP South American Center for Theoretical Physics (at Sao Paulo)

Honors and Awards

- 2012, Milner Foundation Fundamental Physics Prize
- 2012, I.Ya.Pomeranchuk Prize
- 2008, ICTP Dirac Medal
- 2007, Dannie Heineman Prize for Mathematical Physics
- 2004, Distinguished Lecturer at Stanford University
- 2004, APS Edward A. Bouchet Award
- 2002, Pius XI Medal
- 2001, Xanthopoulos Prize in General Relativity
- 2000, Sackler Prize in Physics
- 1999, UNESCO Husein Prize for Young Scientists
- 1999, MacArthur Fellowship
- 1998, Packard Fellowship in Science and Engineering
- 1998, Sloan Fellowship

List of Publications

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- [1] X. O. Camanho, J. D. Edelstein, J. Maldacena and A. Zhiboedov, “Causality Constraints on Corrections to the Graviton Three-Point Coupling,” arXiv:1407.5597 [hep-th].
- [2] R. Bousso, H. Casini, Z. Fisher and J. Maldacena, “Entropy on a Null Surface for Interacting Quantum Field Theories and the Bousso Bound,” arXiv:1406.4545 [hep-th].
- [3] J. Maldacena, “Testing Gauge/Gravity Duality on a Quantum Black Hole,” *Science* **344**, no. 6186, 806 (2014).
- [4] R. Bousso, H. Casini, Z. Fisher and J. Maldacena, “Proof of a Quantum Bousso Bound,” arXiv:1404.5635 [hep-th].
- [5] A. Lewkowycz and J. Maldacena, “Exact Results for the Entanglement Entropy and the Energy Radiated by a Quark,” *JHEP* **1405**, 025 (2014) [arXiv:1312.5682 [hep-th]].
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- [7] T. Faulkner, A. Lewkowycz and J. Maldacena, “Quantum Corrections to Holographic Entanglement Entropy,” *JHEP* **1311**, 074 (2013) [arXiv:1307.2892].
- [8] J. Maldacena and L. Susskind, “Cool Horizons for Entangled Black Holes,” *Fortsch. Phys.* **61**, 781 (2013) [arXiv:1306.0533 [hep-th]].
- [9] A. Lewkowycz and J. Maldacena, “Generalized Gravitational Entropy,” *JHEP* **1308**, 090 (2013) [arXiv:1304.4926 [hep-th]].
- [10] T. Hartman and J. Maldacena, “Time Evolution of Entanglement Entropy from Black Hole Interiors,” *JHEP* **1305**, 014 (2013) [arXiv:1303.1080 [hep-th]].
- [11] O. Aharony, S. Giombi, G. Gur-Ari, J. Maldacena and R. Yacoby, “The Thermal Free Energy in Large N Chern-Simons-Matter Theories,” *JHEP* **1303**, 121 (2013) [arXiv:1211.4843 [hep-th]].
- [12] J. Maldacena and G. L. Pimentel, “Entanglement Entropy in de Sitter Space,” *JHEP* **1302**, 038 (2013) [arXiv:1210.7244 [hep-th]].
- [13] J. Maldacena and A. Zhiboedov, “Constraining Conformal Field Theories with a Slightly Broken Higher Spin Symmetry,” *Class. Quant. Grav.* **30**, 104003 (2013) [arXiv:1204.3882 [hep-th]].

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- [15] D. Correa, J. Henn, J. Maldacena and A. Sever, “The Cusp Anomalous Dimension at Three Loops and Beyond,” JHEP **1205**, 098 (2012) hep-th/1203.1019.
- [16] D. Correa, J. Henn, J. Maldacena and A. Sever, “An Exact Formula for the Radiation of a Moving Quark in N=4 Super Yang Mills,” JHEP **1206**, 048 (2012) hep-th/1202.4455.
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- [19] J. Maldacena, “Einstein Gravity from Conformal Gravity,” hep-th/1105.5632.
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