

Curriculum Vitae

JUAN MARTÍN MALDACENA

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Education and Professional Experience

- 2016 - present, Carl P. Feinberg Professor at the Institute for Advanced Study
- 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

- 2019, Galileo Galilei Medal
- 2018, Lorentz Medal
- 2018, Richard E. Prange Prize
- 2018, Einstein Medal
- 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

References

- [1] J. Maldacena and A. Milekhin, “Humanly traversable wormholes,” [arXiv:2008.06618 [hep-th]].
- [2] Y. Chen, V. Gorbenko and J. Maldacena, “Bra-ket wormholes in gravitationally prepared states,” [arXiv:2007.16091 [hep-th]].
- [3] A. Almheiri, T. Hartman, J. Maldacena, E. Shaghoulian and A. Tajdini, “The entropy of Hawking radiation,” [arXiv:2006.06872 [hep-th]].
- [4] J. Maldacena, “Comments on magnetic black holes,” [arXiv:2004.06084 [hep-th]].
- [5] J. Maldacena, “Black holes and quantum information,” *Nature Rev. Phys.* **2**, no.3, 123-125 (2020) doi:10.1038/s42254-019-0146-z
- [6] J. Maldacena and A. Milekhin, “SYK Wormhole Formation in Real Time,” arXiv:1912.03276 [hep-th].
- [7] A. Almheiri, T. Hartman, J. Maldacena, E. Shaghoulian and A. Tajdini, “Replica Wormholes and the Entropy of Hawking Radiation,” *JHEP* **05**, 013 (2020) doi:10.1007/JHEP05(2020)013 [arXiv:1911.12333 [hep-th]].
- [8] A. Almheiri, R. Mahajan and J. Maldacena, “Islands Outside the Horizon,” arXiv:1910.11077 [hep-th].
- [9] J. Maldacena, “Developments in Black Hole Entropy,” doi:10.1142/9789811203961_0008
- [10] A. Almheiri, R. Mahajan, J. Maldacena and Y. Zhao, *JHEP* **03**, 149 (2020) doi:10.1007/JHEP03(2020)149 [arXiv:1908.10996 [hep-th]].
- [11] H. Erbin, J. Maldacena and D. Skliros, “Two-Point String Amplitudes,” *JHEP* **1907**, 139 (2019) doi:10.1007/JHEP07(2019)139 arXiv:1906.06051 [hep-th].
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- [13] J. Maldacena, G. J. Turiaci and Z. Yang, “Two Dimensional Nearly de Sitter Gravity,” arXiv:1904.01911 [hep-th].
- [14] J. Maldacena, “Black Hole Entropy and Quantum Mechanics,” arXiv:1810.11492 [hep-th].
- [15] J. Maldacena, A. Milekhin and F. Popov, “Traversable Wormholes in Four Dimensions,” arXiv:1807.04726 [hep-th].

- [16] J. Maldacena and X. L. Qi, “Eternal Traversable Wormhole,” arXiv:1804.00491 [hep-th].
- [17] J. Maldacena and A. Milekhin, “To Gauge or not to Gauge?,” JHEP **1804**, 084 (2018) doi:10.1007/JHEP04(2018)084 [arXiv:1802.00428 [hep-th]].
- [18] C. Cordova, J. Maldacena and G. J. Turiaci, “Bounds on OPE Coefficients from Interference Effects in the Conformal Collider,” JHEP **1711**, 032 (2017) doi:10.1007/JHEP11(2017)032 [arXiv:1710.03199 [hep-th]].
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- [20] J. Maldacena, D. Stanford and Z. Yang, “Diving into Traversable Wormholes,” Fortsch. Phys. **65**, no. 5, 1700034 (2017) doi:10.1002/prop.201700034 [arXiv:1704.05333 [hep-th]].
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