

# Antonio M. García – García

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## Summary

**Education:** Ph.D in Physics. SUNY at Stony Brook, Adviser: J. Verbaarschot.

**Academic Positions:** Staff Member Theory of Condensed Matter Group, Cavendish Laboratory, Cambridge University.  
Invited Professor, University of Lisbon, Portugal.

**Research interests:** AdS/CFT in condensed matter, far from equilibrium physics, superconductivity and mesoscopic physics.

**Current Grants :** EPSRC Career Acceleration Fellowship (2011-2016)  
Fundação para a Ciência de Portugal (2011-2014)  
Marie Curie International Reintegration Grant (2010-2014)

**Group members:** PhD Students: James Mayoh and Aurelio Romero  
Postdocs: Hua Bi Zeng, Hai-Qing Zhang

**Organizer:**

1. Workshop “Control and enhancement of superconductivity in nano structures”, June 2012, CECAM, Lausanne.  
<http://www.cecarn.org/workshop-680.html>
2. Programme “Mathematics and physics of the holographic principle”, Isaac Newton Institute Cambridge, September 2013,  
<http://www.newton.ac.uk/programmes/HOL/>
3. Workshop “Correlations and coherence in quantum systems”, Evora, October 2012 <http://hawk.fisica.uminho.pt/ccqs/>

**Publications:** 50 refereed publications:  
1 Nature Materials, 7+2 Phys. Rev. Lett., 3 Phys. Rev. Rapid Comm, 1 Phys. Rev. B (Editor suggestion), 3 Phys. Rev. A, 12 Phys Rev. B, 1 Phys. Rev. C, 1 Phys. Rev. D, 8 Phys. Rev. E, 2 Nucl. Phys. B, 1 Nucl. Phys. A, 1 JHEP, 1 IJMPB, 3 proceedings. Citations:  
<http://scholar.google.co.uk/citations?user=9IRAYdEAAAAJ&hl=en>

**Invitations:** 37 seminars/short stays, 28 times speaker in international meetings.

## Education

2002 Ph.D in Physics. SUNY at Stony Brook, Adviser: J. Verbaarschot.  
1998 Student exchange. University of California at Santa Cruz.  
1997 Bachelor in Theoretical Physics. Universidad Autonoma de Madrid.

## Academic Positions

2011-2016 EPSRC Career Acceleration Fellow, Cambridge University.  
2011- Invited Professor. Instituto Superior Tecnico, Technical University of Lisbon.  
2010-2011 Assistant Professor. Instituto Superior Tecnico, Technical University of Lisbon.  
2004-2009 Marie Curie Fellow and Lecturer at Princeton University.  
2002-2004 Postdoc at Universite Paris Sud.  
2000-2002 Research Assistant. Nuclear Theory Group at Stony Brook University.

## Teaching experience

2012 Graduate Lectures on Mesoscopic Physics, Cambridge University.  
2006-2009 Lecturer at Princeton University: Classical Mechanics and Electromagnetism.  
1997-1999 Teaching Assistant at UC Santa Cruz: Introductory Physics Lab.

## Awards & Grants

2011- 2016 EPSRC Career Acceleration Fellowship (125000€/year)  
2011-2014 Grant Fundação para a Ciência ea Tecnologia de Portugal (30000€/year)  
2010-2014 International Reintegration Grant funded by the European Commission (25000€/year)  
2009 Short term fellowship granted by the Japanese Society for the Promotion of Science.  
2005-2009 Outgoing Marie-Curie fellowship granted by the European Commission.  
2007-2010 Grant from the Spanish Ministry of Science. Title: "Disordered electronic systems"  
2004-2005 MECD-Fulbright fellowship granted by the Spanish Government.  
2001 Peter B. Kahn fellowship for outstanding graduate students.  
1998-2000 "laCaixa fellowship". It covered both personal expenses and tuition for two years.

## Short visits and seminars

1. Brunel University, 12/2001, Prof. Yan Fyodorov.
2. Oxford University 12/2001, Prof. J. Chalker.
3. Birmingham University 12/2001, Prof. Igor Lerner.
4. Universite Paris Sud, 12/2001, LPTMS, Prof. P. Leboeuf.
5. Yale University 2/2002, Prof. Y.Alhassid.
6. Baptist University Hong Kong 08/2002, Prof. B. Hu.
7. Melbourne University 06/2002, Prof. P. Forrester.
8. National University of Singapore 06/2002, 07/2004, Prof. B. Li
9. University of Nottingham 06/2003, Prof. P. Fromhold.
10. Tokyo University 11/2003, Prof. S. Hikami.
11. Ryokoku University, 11/2003, Kyoto, Prof. S. Iida

12. Metropolitan University Tokyo 11/2003. Prof. A. Shudo.
13. Leiden University, 1/2004, Prof. C. Beenakker.
14. Amsterdam University, 1/2004, Prof. K. Schoutens.
15. Lund University 02/2004, Prof. T. Guhr.
16. Instituto de Estructura de la Materia, 06/2005, Prof J. Dukelsky.
17. Universidad de Murcia, 06/2005, Prof. Miguel Ortuño.
18. University of Kentucky, 10/2005, Prof. G. Murthy.
19. Cambridge University, 05/2006, Prof. Elliot.
20. Oxford University, 05/2006, Prof. Teper.
21. Stony Brook, 04/2007, Prof. Shuryak.
22. New York University, 04/2007, Prof. Zaslavsky.
23. Universidad Autonoma Madrid, 05/07, Prof. Gonzalez-Arroyo.
24. Oslo University, 05/2007, Dr. Bergli.
25. Oxford University, 05/2007, Prof. Teper.
25. National University of Singapore, 06/2007, Prof. Gong
26. Auckland University, 06/2007, Prof. Leonhardt.
27. Niels Bohr Institute, 03/2008, Prof. Daamgard.
28. Wesleyan University, 03/2008, Prof. Kottos.
29. Antwerp University, 08/2008, Prof. Peeters.
30. RIKEN, Tokyo, Japan, 12/2008, Prof. Furusaki.
31. Max Planck, Dresden, Germany, 3/2009, Prof. Moessner.
32. Instituto de Estructura de la Materia, 03/2010, Prof J. Dukelsky.
32. Seoul National University, Corea, 6/2010, Prof. Insuk Yu.
33. Institute for Advanced Studies, Tsinghua University, Beijing, 06/2010, Prof. Nieh.
34. Institute of Physics, Academia Sinica, Taipei, Taiwan, 06/2010, Prof. Sungkit.
35. Kyoto University, 06/2010, Prof. Tezuka.
36. Georgetown University, 01/2011, Prof. Rigol.
37. Cambridge University, 05/2011, Prof. Cooper.
38. Birmingham University, 10/2012, Prof. Gangardt.
39. Instituto Estructura de la Materia, CSIC, Madrid, 12/2012
40. Tsinghua University, 01/2013, Prof. Xue.
41. Riken, Saitama, Japan, 01/2013, Prof. Naidon.
42. Kyoto University, Japan, 01/2013, Prof. Tezuka.
43. Oxford University, 2/2013, Colloquium Theoretical Physics Department.
44. Loughborough University, 3/2013, Prof. Betouras.
45. Leiden University, 3/2013, Prof. J. Zaanen.
46. Alvar Aalto University, Helsinki, 7/2013, Prof. J. Pekkola
47. Riken, Saitama, Japan, 07/2013, Prof. Naidon.

## **Invitations to conferences/workshops**

1. 'Quantum mechanics and chaos', Yukawa Institute, Kyoto, Japan, 2003.
2. 'Gathering on Random Matrix Theory', Cuernavaca, Mexico, 2004.
3. 'Dynamics Days', Singapore, 2004
4. 'Aspects of Quantum Chaotic Scattering', Dresden, 2005.
5. 'Lattice 2005', Dublin, 2005.
6. 'Exploration of Hadron Structure and Spectroscopy using Lattice QCD", INT, Seattle, 2006.
7. 'International Colloquium on Group Theoretical Methods in Physics', NY, 2006.
8. 'Infrared QCD', Rio, Brazil, 2006.
9. 'Confinement: light-and heavy-quark domains', Trento, 2007

10. 'Workshop on Quantum Chaos and Anderson localization', Warsaw, 2007.
11. 'International conference on Nuclear Physics', Tokyo, 2007.
12. 'Deconfinement, extreme environments and holography', Cambridge, 2007.
13. 'Mathematical Physics Days at Weizmann Institute', Israel, 2007.
14. 'Dynamical Days', Nara, Japan, 2008.
15. 'Anderson Localization and related phenomena', Cambridge, 2008.
16. 'Classical and quantum transport in the presence of disorder', Cambridge, 2008.
17. 'Mesoscopic Systems Symposium', Wesleyan University, USA, 2008.
18. 'Symposium in honor of H. A. Weidenmueller', Cuernavaca, Mexico, 2009.
19. 'New directions in superconducting nanostructures', Nagoya, Japan, 2009.
20. 'IPMU Focus week Condensed Matter Meets High Energy Physics', Tokyo, Japan, 2010.
21. 'Superconductivity in nanosized systems', CECAM, Lausanne, 2010.
22. 'Encontro Nacional de Fisica da Materia Condensada', Lisbon, 2010.
23. 'Workshop on Correlations and Coherence in Quantum Matter', Evora, 2010.
24. 'AdS4 /CFT3 and the holographic states of matter', Firenze, 2010.
25. 'AdS/CFT and Condensed Matter', Imperial College, London, 2011.
26. 'Super-Stripes 2011', Rome, 2011.
27. 'International Conference on Superconductivity and Magnetism', Istanbul, 2012.
28. 'Super-Stripes 2012', Erice, 2012.
29. 'Quantum complex matter', Ischia, 2013.
30. 'The New Generation in Strongly Correlated Electron Systems 2013', Sestri Levante, Italy, 1-5 July 2013.

## Others

1. Referee Phys. Rev. A, B, E, Phys. Rev. Lett., J. Phys. A, Nuclear Physics B, New Journal of Physics.
2. Guest editor of a focus issue on superconductivity in nanoscale systems in the journal "Superconductor Science and Technology", the leading research journal focused on superconductivity.
3. Referee for the Deutsche Forschungsgemeinschaft (DFG), Germany.
4. Referee for the Foundation for Fundamental Research on Matter (FOM), The Netherlands.
5. Referee for the Engineering and Physical Sciences Research Council (EPSRC), UK.