

Curriculum Vitae: SHIENG MENG

Institute of Physics, Chinese Academy of Sciences
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Born: December, 1981 (Anhui, China)

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Education

2004 Ph.D. in Applied Physics, Chalmers University of Technology, Goteborg, Sweden
2004 Ph.D. in Condensed Matter Physics, Chinese Academy of Sciences, Beijing, China
2000 B.S. in Physics, University of Science and Technology of China (USTC), Hefei, China

Employment

Professor of Physics *Aug. 2009-present*
Institute of Physics, Chinese Academy of Sciences, Beijing, China

Research Associate *Oct. 2006-Jul. 2009*
Physics Department, Harvard University (*with Efthimos Kaxiras*)

Post-doctoral Fellow and Visiting Scientist *Jan. 2005-Sep. 2006*
Physics Department, University of Texas at Austin
Visiting scientist: Oak Ridge National Lab (*with Zhenyu Zhang*)

Research Assistant *Jun. 2002- Sep. 2004*
Department of Applied Physics, Chalmers University of Technology, Sweden
Institute of Physics, Chinese Academy of Sciences *Sep. 2000 -Mar. 2004*
Major: Condensed Matter Physics (*with E. G. Wang & Shiwu Gao*)

Scientific Collaborator *Jan. 2010-Dec. 2010*
Institute of Materials, Ecole Polytechnique Fédérale de Lausanne, Switzerland

Awards

- 2010 WMRIF Young Scientist Prize for Excellent Presentation, Berlin
- 2009 Harvard University Post-doctoral Travel Award, Boston
- 2005 NSF Fellowship at IPAM, University of California, Los Angeles
- 2002 Director's Prize for Academic Outstanding, Institute of Physics, CAS
- 2001 Academic Excellence Award, Graduate School of CAS
- 2000 Merit of Excellence for the thesis, USTC
Title: "Tunnelling Properties of Metal-Insulator-Metal Junctions"
- 1999 University Merit of Excellent Youth
- 1998 University Wen-Chang Scholarship
- 1997 University Scholarship for Academic Excellence
- 1996 University Scholarship for Excellent Freshman
- 1994 "Three Merits Student" of the City

Services

2012 Instructor, Int'l Supercomputing Conference (ISC'12) student cluster competition, Beijing
2011-2012 Instructor, Magic Physics, No. 1 Primary School, Zhongguancun, Beijing
2011-2014 Chair, Academic Committee for Young Scientists, IOP-CAS
2011 Judge, IET Present Around the World Competition, Beijing
2011 Session Chair, ACCMS-6 Conference, Singapore
2011 Session Chair, Autumn Meeting, Chinese Physics Society, Hangzhou
2008 Session Chair, March Meeting, American Physics Society, New Orleans

Professional Membership

American Physical Society, American Chemistry Society, Materials Research Society, American Biophysical Society, Sigma Xi

Research

- Excited state electron dynamics in condensed matters (2009-)
- Energy conversion mechanism for sustainable society (2009-)
- Electronic interaction between biomolecules and nanomaterials (2006-2008)
- Molecular structure of melanin, and flavonoids (2006-2008)
- First-principles study of water at surfaces and interfaces (2001-2005)
- Solid-state electrode materials for lithium ion battery (Nov. 2001-2003)
- Quantum mechanics in biology (May-June 2001)
- Characterization of metal-oxide-metal tunnelling junctions (Mar.-Aug. 2000)

Funding

- MOST (USD \$1,140,000) 2012-2017
- CAS (USD \$450,000) 2010-2014
- NSFC (USD \$59,000) 2011-2014
- NSF, DOE, Harvard University Center for the Environment (USD \$30,000)
- Involved in 8 proposals writing to DOE, NSF, SV, NSFC

Teaching

- “Analysis with Scanning Probe Microscopy”, IOP-CAS, 2011 Spring
- “Advanced Topics in Frontiers of Nanoscience”, GUCAS, 2010 Summer
- “Introduction to Quantum Theory of Solids”, EPFL, Lausanne, 2010 Spring
- Supervising 6+ Ph.D. students; supervised undergraduates (3); helped supervise undergraduates (1); graduates (5); post-doc (1)

Reviewer

- Phys. Rev. Lett., J. Am. Chem. Soc., Nano Letters, Adv. Funct. Mater., ACS Nano, Phys. Rev., J. Chem. Phys., J. Phys. Chem., Solid State Comm., New. J. Phys.
- Team research project, Fonds de recherche, Quebec, Canada

Hobbies

Enjoy mountain climbing, badminton, swimming, reading and writing.
Won first prize in University’s “Huangyuan Poem Competition” (1999).
Won second prize in University’s “Huangyuan Poem Competition” (1998).

Published 50+ journal articles; delivered 30+ invited talks at international conferences and universities.