

Curriculum Vitae - Sascha Sadewasser

Present address: INL - International Iberian Nanotechnology Laboratory
Avda. Mestre José Veiga s/n, 4715-330 Braga, Portugal
sascha.sadewasser@inl.int

Research Experience

- 01/07/2011 – present
Staff Researcher, INL - International Iberian Nanotechnology Laboratory, Portugal
Principal Investigator - Laboratory for Nanostructured Solar Cells
Coordinator of the Energy Research Area (03/2015-12/2016)
- 01/01/2005 – 30/06/2011
Senior Researcher, Helmholtz Zentrum Berlin für Materialien und Energie, Germany
Deputy head of the Department for Heterogeneous Materials System since 04/2009
Group leader of the Group for Optoelectronic Nanocharacterization
supervising of Diploma and PhD students, project proposals for grant applications,
management of network research projects, national and international research
collaborations, research in scanning probe microscopy and growth of nanostructures
- 15/10/2003 – 31/12/2004
Ramón y Cajal scientist, Centro Nacional de Microelectrónica, Barcelona, Spain
Nanotechnology using Si surface micro machining techniques, tunneling devices for
ultra sensitive motion detection, specialized AFM cantilevers
- 01/06/2001 – 31/07/2001
Post Doctoral Researcher, Universidad Autónoma de Barcelona, Spain
Principal Investigator: Prof. X. Aymerich
Nano-oxidation of surfaces using an atomic force microscope
- 01/11/2000 – 14/10/2003
Group leader of the Group for Optoelectronic Nanocharacterization at the Hahn-
Meitner Institut, Berlin, Germany
supervising of Diploma and PhD students, project proposals for grant applications,
management of network research projects, national and international research
collaborations, research in scanning probe microscopy
- 15/10/1999 – 14/10/2003
Post Doctoral Researcher, Hahn-Meitner Institut, Berlin, Germany
Principal Investigator: Prof. M. Ch. Lux-Steiner
Surface studies of semiconductors and chalcopyrite solar cell materials, atomic force
microscopy in ultra-high vacuum, work function measurements by Kelvin probe
force microscopy
- 15/08/1996 – 31/08/1999
Research Assistant, Washington University, St. Louis, MO, USA
Supervisor: Prof. J. S. Schilling
high-temperature superconductors, oxygen ordering, diffusion of oxygen, high
pressure experiments with He-gas system and diamond anvil cell, operation of
cryogenic equipment.
- 01/03/1994 – 30/04/1996
Research Assistant, RWTH Aachen, Aachen, Germany
Supervisor: Prof. G. Güntherodt
high-temperature superconductors, transport measurements, operation of cryogenic
equipment.

Education and Training

19/01/2011	Habilitation in experimental physics at Freie Universität Berlin, Germany
01/10/2008 – 31/03/2010	Helmholtz Academy for Management (Malik Management Zentrum St. Gallen)
10/09/2000 – 15/09/2000	<i>Nicolas Cabrera</i> summer school on “Scanning Probe Methods for manipulation and characterization of materials on the nanometer scale”, Madrid, Spain
15/08/1996 – 13/08/1999	Washington University, St. Louis, USA, Ph.D. in Physics "Pressure-Dependent Relaxation Phenomena in Selected High-Temperature Superconductors"
01/10/1989 – 30/09/1995	RWTH Aachen, Germany, Diplom in Physics Major: solid state physics, superconductivity and magnetism Minor: chemistry and computer science

Teaching Experience

05/2017	Invited Professor, University of Nantes, France 2 weeks visiting Professorship for teaching and research exchange
11/2016	Lectures in the course “Nanodevices and Nanoelectronics” at Universidade do Minho, Braga, Portugal
2007 – 2011	Teaching and development of lab course experiments at the Freie Universität Berlin, Germany
2007 – 2009	Several exchanges (~3 weeks) to Universidad del Norte, Barranquilla, Colombia Lecture on Nanotechnology and Photovoltaics in Masters and Bachelor courses
19/08/2007 – 01/09/2007	Lecturer at the Summer School “Cost-effective Photovoltaics Research” in Nairobi funded by the Volkswagen Foundation
11/04/2005 – 15/07/2005	Lecture for graduate students “Introduction to Solid State Physics”, Freie Universität Berlin, Germany
07/03/2005 – 10/03/2005	Lecturer of the “II Jornada de Electrónica y Tecnologías de Información y Telecomunicaciones – Microsistemas y Nanotecnologías” (as part of the Cátedra Europa 2005), Universidad del Norte, Barranquilla, Colombia
13/12/2004 – 17/12/2004	Lecturer of Course on Microsystems and Nanotechnology, INTI, Buenos Aires, Argentina
15/08/1996 – 31/12/1996	Teaching Assistant for physics lab at Washington University, St. Louis, USA
01/03/1994 – 31/07/1995	Teaching Assistant for the advanced physics lab, RWTH Aachen, Germany

Honors and other Experience

- 1/4/2005 Poster Prize Award at the Materials Research Society Spring Meeting in San Francisco, CA, USA
- 15/10/2003 – Ramón y Cajal fellowship from the Spanish Ministry of Education and Science
31/12/2004
- 01/08/1998 – Albert and Judith Fay Ross Memorial Fellowship for graduate studies at Washington
31/07/1999 University, St. Louis, USA
- 01/06/1996 – Programmer Analyst at American Management Systems Düsseldorf, Germany
31/07/1996
- 05/06/1989 – Internship in the laboratory for quality control at Isola Werke AG Düren, Germany
28/07/1989

- Member of the organization and program conference of various international conferences.
- Referee for various peer-review journals and for project proposals of DFG (German Science Foundation) and MOST (Ministry of Science and Technology, Israel).

Publications and Presentations

More than 100 publications, 145 conference contributions and 35 invited seminar lectures at international universities.

Languages

Fluency in German, English, and Spanish
Basic knowledge of Portuguese

Other Activities

Organization of social and sport events.
Initiation and organization of a graduate student seminar series for Ph.D. students at Washington University, St. Louis, Mo.
Sports.
Music.