

# **Curriculum Vitae Professor Dr. Frédéric Merkt**

Name: Frédéric Merkt
Born: 12 July 1966



### **Academic and Professional Career**

since 1999	Full Professor of Physical Chemistry at ETH Zurich, Department of Chemistry and Applied
	Biosciences (D-CHAB), Zurich, Switzerland
1995 - 1999	Assistant Professor of Physical Chemistry at ETH Zurich, Zurich, Switzerland
1994 - 1995	Junior Research Fellow of St. John's College and Lecturer of Keble College, Oxford
	University, Oxford, UK
1993 - 1994	Postdoctoral Fellow of the Swiss National Science Foundation for research at Stanford
	University, Stanford, USA
1992 - 1993	Junior Research Fellow of St. John's College, Oxford University, Oxford, UK
1992	Postdoctoral Fellow, Boursier du Gouvernement Français, Université de Paris-Sud and CNRS,
	Laboratoire des Collisions Atomiques et Moléculaires LCAM, Orsay, France
1992	Ph.D., University of Cambridge, Cambridge, UK
1989 - 1992	Ph.D. student, Leslie Wilson Scholar of Magdalene College, University of Cambridge, UK
1988	Diploma, ETH Zurich, Switzerland
1984 - 1988	Studies of chemistry at ETH Zurich, Switzerland

## Project coordination, Membership in collaborative research projects (Selection)

2011 - 2014 National Centre of Competence in Research of the Swiss National Science Foundation, QSIT (Quantum Science and Technology), Principal Investigator / Partner
 2011 - 2014 COHERENCE, ITN, Marie Curie Action (Cooperativity in Highly Excited Rydberg Ensembles Control and Entanglement), Principal Investigator / Partner

### **Functions in Scientific Societies and Committees (Selection)**

since 2012	Member of the Selection Committee of the Alexander von Humboldt Foundation
since 2011	Co-editor of the European Physical Journal D
since 2011	Member of the Editorial Board of the Journal of Chemical Physics
since 2008	Member of the Research Commission of ETH Zurich, Switzerland
2008 - 2011	President of the Division Chemical Research of the Swiss Chemical Society
2007 - 2010	Member of the Editorial Board of the Journal of Molecular Spectroscopy
since 2005	Member of the Steering Committee of the Division Chemical Research of the Swiss
	Chemical Society
since 2005	Member of the Editorial Board of Chemical Physics
2004 - 2010	Board Member of the European Group on Atomic Systems (EGAS) of the European Physical
	Society; 2006 - 2010: Secretary of EGAS
2003 - 2007	Co-Editor of Molecular Physics
2003 - 2004	Chairman of the Institute of Physical Chemistry of ETH Zurich, Department of Chemistry and
	Applied Biosciences (D-CHAB)
since 2001	Member of the Advisory Board of Molecular Physics

## **Honours and Awarded Memberships, Achievements (Selection)**

2014	Otto-Bayer-Preis
2012	van't Hoff-Preis 2012 of the Deutsche Bunsen-Gesellschaft für Physikalische Chemie

2011	Elected Fellow of the Optical Society of America
2010	William F. Meggers Award of the Optical Society of America
2010	Carus Medal of The German Academy of Sciences Leopoldina, Halle (Saale), Germany
2010	Carus Prize of the City of Schweinfurt, Germany
2009	Elected Member of the Leopoldina, Section Chemistry, The German Academy of Sciences
	Leopoldina, Halle (Saale), Germany
2008	ERC Single Investigator Advanced Grant / Awarded ERC Advanced Grant
2005	Frontiers in Spectroscopy Lecturer, Ohio State University, Columbus, USA
2004	Academy Award of the Berlin-Brandenburg Academy of Science and Humanities,
	Berlin, Germany
1999	Swiss National Latsis Prize awarded by the Swiss National Science Foundation
1999	Werner Prize of the Swiss Chemical Society

#### **Major Scientific Interests**

The research in the group of Frédéric Merkt is devoted to studies of the electronic structure and dynamics of atoms and molecules in the gas phase by high-resolution spectroscopy. The driving force of the research program is the desire to study and understand in detail the behaviour of electronically excited states of atoms and molecules and the processes that result from the interaction of molecules with short-wavelength radiation. Topics of particular interest are: (i) molecular photoionization and photoelectron spectroscopy, (ii) atomic and molecular Rydberg states, (iii) the structure and dynamics of reactive species such as free radicals and cations, (iv) the Jahn-Teller effect and rovibronic interactions, (v) the physical chemistry of atomic and molecular samples at very low temperatures, and (vi) atom and molecule optics.

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