

# Curriculum Vitae - Mark Saffman

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## Professional Preparation

University of Colorado at Boulder	Physics	Ph.D. 1994
California Institute of Technology	Applied Physics	B.Sc. (with honors) 1981

## Appointments

9.2018- Chief Scientist for Quantum Information, ColdQuanta, Inc.  
6.2007- Professor, University of Wisconsin - Madison  
9.2004-6.2007 Associate Professor, University of Wisconsin - Madison  
9.1999 - 8.2004 Assistant Professor, University of Wisconsin - Madison  
4.1994 - 9.1999 Senior Scientist, Risø National Laboratory, Roskilde, Denmark  
1983-1989 Optical Engineer, Dantec Electronics Inc., Skovlunde, Denmark  
1981-1983 Member of Technical Staff, TRW Defense and Space Systems, Redondo Beach

## Honors and Awards

2013 Fellow, Optical Society of America  
2010 Vilas Associate Award, University of Wisconsin, Madison  
2008 Fellow, American Physical Society  
2001-2003 Alfred P. Sloan Fellowship  
1994 Research and Creative Work Award, The University of Colorado  
1991 William Walter Jr. Award, The University of Colorado  
1990-1993 Laboratory Graduate Fellowship, U.S. Air Force Office of Scientific Research

**Publications** 145 journal publications, 250 conference proceedings, 4 book chapters, 6 patents. Web of Science: 6400 citations, h-index 40.

**Professional activities** 1.2007-present, Associate editor of Physical Review A; 3.2004-6.2008, Associate editor of Physical Review E; proposal reviews for National Science Foundation, Research Corporation, U.S. Civilian Research and Development Foundation, Australian Research Council, FOM-Holland, Austrian Science Foundation, European Research Council, Army Research Office, German Research Foundation. Director of Wisconsin Quantum Institute

**Research interests** quantum information processing, atomic physics, laser cooling, quantum optics, nonlinear optics and dynamics.

**Research funding** Currently supported by grants from the National Science Foundation, Army Research Lab, Army Research Office, and Department of Energy. PI on grants with a career total over 35M\$.

**Educational activities** Currently supervising a research group with 4 postdocs, 6 graduate students, 5 undergraduates, and 1 technical staff member. Supervised 19 Ph.D. and 2 M.Sc. theses. Recent courses taught: quantum information, electrodynamics, atomic physics, optics, laser physics, Bose Einstein condensation, quantum mechanics, graduate electronics and optics labs