Olga V. Holtz

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Education

2000 **Ph.D. in Mathematics**, *University of Wisconsin-Madison*, USA.
1995 **B.Sc. in Applied Mathematics**, *Chelyabinsk State Technical University*, Russia.

Employment

2010–now **Full Professor**, *University of California-Berkeley*, Mathematics.
2009–now **Professor (W3)**, *Technische Universität Berlin*, Institut für Mathematik.
2007–now **Professor**, *Berlin Mathematical School*.
2007–2010 **Associate Professor**, *University of California-Berkeley*, Mathematics.
2004–2007 **Morrey Assistant Professor**, *University of California-Berkeley*, Mathematics.
2002–2004 **Research Fellow**, *Technische Universität Berlin*, Institut für Mathematik.
2000–2002 **Research Associate**, *University of Wisconsin-Madison*, Computer Sciences.

Visiting positions

2009–2010 **Member**, *Institute for Advanced Study*, School of Mathematics.
2007–2009 **Guest Professor**, *Technische Universität Berlin*, Institut für Mathematik.

Selected honors and awards

2009–2010 John von Neumann Fellowship (Institute for Advanced Study)
2008 European Mathematical Society Prize
2008–2013 Member of the Junge Akademie of Germany
2006–2010 Sofja Kovalevskaja research prize (Alexander von Humboldt Foundation)
2002–2003 Humboldt research fellowship (Alexander von Humboldt Foundation)
2000 SIAG/LA prize in Applied Linear Algebra (SIAM)
2000 Liftoff award (Clay Mathematics Institute)
1999–2000 Alfred P. Sloan doctoral dissertation fellowship (Sloan Foundation)
1999 Elizabeth Hirschfelder fellowship (UW-Madison)
1996–1997 Presidential scholarship for study abroad (Russian ministry of higher education)
1994–1996 George Soros undergraduate and graduate scholarships
1992–1995 Lenin scholarship (Russian ministry of higher education)

External grants

2010–2015 ERC Starting Grant, European Research Council (ERC)
2008–2011 Priority Programme Research grant, German Research Foundation (DFG)
2006–2011 Sofja Kovalevskaja Programme, German Ministry for Education and Research
Total funding up to date: Euro 2.5 mil.

Research interests

Numerical analysis, matrix and operator theory, approximation theory, wavelets and splines, compressive sensing, orthogonal polynomials and special functions, commutative algebra, combinatorics, analysis of algorithms, computational complexity.

Selected invited talks

2011 Foundations of Computational Mahematics, Budapest (plenary talk)
2010 Joint Mathematics Meetings, San Francisco (AMS invited address)
2009 Joint Mathematics Meetings, Washington D.C. (Current Events lecture)
2008 European Congress of Mathematicians, Amsterdam (EMS prize lecture)
2006 Joint GAMM-SIAM conference on applied linear algebra, Düsseldorf (ILAS lecture)
2005 12th ILAS meeting, Regina (plenary lecture)
2000 7th SIAM conference on applied linear algebra, Raleigh (SIAG/LA prize lecture)

Invited seminar & colloquium talks

since 2000 AIM, Berlin Mathematical School, Dagstuhl Research Center, IAS, Indiana University, Isaac Newton Institute, Massey University, Microsoft Research Theory Group, MIT, NYU, Oberwolfach Mathematics Institute, San Jose State University, San Francisco State University, Stanford University, Technion, Technische Universität Berlin, Tel Aviv University, University of Auckland, University of California-Berkeley, University of Cambridge, University of Hawaii, University of Rome (La Sapienza), University of Washington-Seattle, Vrije Universiteit Amsterdam, Weizmann Institute of Science, Zürich Colloquium in Mathematics.

Short research visits

last 5 years AIM, IMA, Isaac Newton Institute, Microsoft Research, National University of Singapore, Technion, Tel Aviv University, SAMSI.

Conferences organized

FoCM 2011 **Workshop**, *Numerical linear algebra*.
IWOTA 2010 **Session**, *Structured matrices, total positivity and problems of function theory*.
JMM 2010 **Sessions**, *Zonotopal algebra and applications, Algebraic methods in signal processing*.
FoCM 2008 **Workshop**, *Numerical linear algebra*.
ICIAM 2007 **Minisymposia**, *Structured matrix algorithms: complexity and stability, Structured matrix algorithms: new methods*.

Editorial services

2007–now **Associate editor**, *IMA Journal on Numerical Analysis*.
2005–2008 **Associate editor**, *Linear Algebra and its Applications*.
2006 **Editor**, *Special issue of Linear Algebra and its Applications in honor of F. L. Bauer*.

Students supervised

Alex Dyachenko Technische Universität Berlin, Ph.D., current
Ipek Savun Berlin Mathematical School, Ph.D., current
Felipe Rincon University of California Berkeley, Ph.D., current
Shuchao Bi University of California Berkeley, Ph.D., current
Matthias Lenz Berlin Mathematical School, Ph.D., current
Mikhail Tyaglov Technische Universität Berlin, Ph.D., 2009
Nenad Moraca Technische Universität Berlin, M.S., 2009