

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

- 2014, 2009–10 **Member**, *Institute for Advanced Study*, School of Mathematics.
- 2012–2013 **Research Professor**, *Mathematical Sciences Research Institute*.
- 2007–2009 **Guest Professor**, *Technische Universität Berlin*, Institut für Mathematik.

Selected honors and awards

- 2014, 2009 John von Neumann Fellowship (Institute for Advanced Study)
- 2012, 2000 SIAG/LA prize in Applied Linear Algebra (SIAM)
- 2008 European Mathematical Society Prize
- 2008–2013 Member of the Junge Akademie of Germany
- 2006 Sofja Kovalevskaja research prize (Alexander von Humboldt Foundation)
- 2002–2003 Humboldt research fellowship (Alexander von Humboldt Foundation)
- 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)

External grants

- 2013–2016 NSF grant (DMS Program in Combinatorics)
 - 2010–2015 ERC Starting Grant, European Research Council (ERC)
 - 2008–2011 Priority Programme Research grant, German Research Foundation (DFG)
 - 2007–2011 Sofja Kovalevskaja Programme, German Ministry for Education and Research
- Total funding up to date: Euro 2.5 mil + USD 262 k.

Research interests

Classical analysis, 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 Mathematics, Budapest (plenary talk)
- 2010 Joint Mathematics Meetings, San Francisco (AMS invited address)
- 2008 European Congress of Mathematicians, Amsterdam (EMS prize lecture)

Invited seminar & colloquium talks

- since 2005 AIM, Berlin Mathematical School, Dagstuhl Research Center, IAS, Indiana University, Isaac Newton Institute, Massey University, Microsoft Research Theory Group, MIT, NYU, Oberwolfach Mathematics Institute, Ohio State University, San Jose State University, San Francisco State University, Stanford University, Technion, Tel Aviv University, University of Auckland, University of California San Diego, 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.

Conferences organized

- AIM, 2011 **Workshop**, *Stability, hyperbolicity, and zero localization of functions.*
- 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, new methods.*

Editorial services

- 2014–now **Editor-in-Chief**, *Research in Mathematical Sciences.*
- 2007–2012 **Associate editor**, *IMA Journal on Numerical Analysis.*
- 2005–2008 **Associate editor**, *Linear Algebra and its Applications.*

Students

- current **Jacob Scott, Shuchao Bi**, *University of California Berkeley*, Ph.D.
- current **Sarah Brodsky**, *Berlin Mathematical School*, Ph.D.
- current **Alex Dyachenko**, *Technische Universität Berlin*, Ph.D.
- 2012 **Matthias Lenz**, *Berlin Mathematical School & Technische Universität Berlin*, Ph.D.
- 2012 **Felipe Rincón**, *University of California Berkeley*, Ph.D.
- 2009 **Mikhail Tyaglov**, *Technische Universität Berlin*, Ph.D.
- 2009 **Nenad Moraca**, *Technische Universität Berlin*, M.S.

Postdocs

- current **Olga Kushel, Galina Yuferova**, *Technische Universität Berlin.*
- 2009–2013 **Maxim Derevyagin**, *Technische Universität Berlin.*
- 2009–2012 **Mikhail Tyaglov**, *Technische Universität Berlin.*
- 2010–2011 **Luca Moci**, *Technische Universität Berlin.*
- 2008–2011 **Sadegh Jokar**, *Technische Universität Berlin.*
- 2008–2010 **Oded Schwartz**, *Technische Universität Berlin.*
- 2007–2008 **Anders Jensen, Zhiqiang Xu**, *Technische Universität Berlin.*

Humboldt Fellows

- 2012–2014 **Michał Wojtylak**, *Technische Universität Berlin.*
- 2008–2011 **Diego Dominici**, *Technische Universität Berlin.*