

Daniel M. Tartakovsky

Curriculum Vitae

Research Interests

Applied and computational mathematics: Mathematical modeling of complex systems (electrochemistry for energy storage, design of nano-porous materials), uncertainty quantification, probabilistic risk assessment, stochastic partial differential equations, hybrid numerical algorithms, spatial statistics, data assimilation

Academic Employment

- 11/16–tenure **Professor**, Department of Energy Resources Engineering, Stanford University.
7/08–10/16 **Professor**, Department of Mechanical and Aerospace Engineering, University of California, San Diego.
10/04–6/08 **Associate Professor**, Department of Mechanical and Aerospace Engineering, University of California, San Diego.
10/00–7/07 **Technical Staff Member and Team Leader (Multiscale Analysis Team, since 9/2004)**, Mathematical Modeling and Analysis Group, Theoretical Division, Los Alamos National Laboratory.
9/01–9/04 **Adjunct Associate Professor**, Department of Hydrology and Water Resources, The University of Arizona, Tucson.
6/99–10/00 **Technical Staff Member**, Computer Research and Applications Group, CCS Division, Los Alamos National Laboratory.
9/90–7/93 **Staff Scientist**, Institute of Mathematics and Mechanics, Kazan State University, Kazan, Russia.

Education

- 9/96 – 5/99 **Postdoctoral Research Associate**, Scientific Computing Group (10/98 - 05/99) and Geanalysis Group (10/96 - 10/98), Los Alamos National Laboratory.
8/93 – 8/96 **Ph.D. in Hydrology**, Department of Hydrology and Water Resources, The University of Arizona, Tucson.
9/86 – 5/91 **M.Sc. in Applied Mathematics/Fluid Mechanics**, Department of Mathematics and Mechanics, Kazan State University, Russia (Summa Cum Laude).

Awards & Honors

- 2015 **Foreign Member**, *Accademia delle Scienze*, Istituto di Bologna (Sezione: Scienze Tecniche), Italy.
- 2012 **Chutian Scholar Chair Professor**, *Three Gorges University*, People's Republic of China (PRC).
- 2010 **Travel award**, *State Administration of Foreign Expert Affairs*, PRC.
- 1999 & 2000 **Travel award**, *Italian Centro Nazionale delle Ricerche (CNR)*, The framework of the short-term mobility program, Italy.
- 2000 **The 1999 Editors' Citation for Excellence in Refereeing for *Water Resources Research***, *EOS*, 81(49), p. 598, December 5, 2000.
- 1993 **Award**, *Special Fund for the Award of Personal Scholarships and Grants to Gifted Young Academics*, Novosibirsk, Russia.
- 1991 **Award**, *All-Union Student Research Conference in Mathematics and Mechanics*, Moscow, USSR.

Synergetic Activities

- 2012 – 2018 **Associate Editor**, *SIAM/ASA Journal on Uncertainty Quantification*, two terms.
- 2012 – 2017 **Associate Editor**, *SIAM Journal on Scientific Computing (SISC)*, two terms.
- 2010 – 2017 **Associate Editor**, *Water Resources Research*, three terms.
- since 2010 **Member of Editorial Board**, *International Journal for Uncertainty Quantification*.
- since 2007 **Associate Editor**, *Stochastic Environmental Research and Risk Assessment*.
- 2005 & 2007 **Guest Editor**, *Computing in Science and Engineering*.
- since 2004 **Member of Editorial Board**, *Advances in Water Resources*.
- 2001 – 2010 **Editor**, *Reviews of Geophysics*, two terms.
- Panelist**, Hydrologic Sciences Review Panel of the NSF Division of Earth Sciences; Numerical PDE Review Panel of the NSF Division of Mathematical Sciences; DOE Peer Review Panels: Early Career Principal Investigator Programs in Applied Mathematics and Climate and Environmental Sciences.

Membership in Professional Societies

European Geophysical Society (EGS), since 1995; American Geophysical Union (AGU), since 1996; International Association of Hydrological Sciences (IAHS), since 2002; Society of Industrial and Applied Mathematics (SIAM), since 2001; U.S. Association for Computational Mechanics (USACM), since 2005; International Society for Porous Media, since 2012.

Recent Book

Cushman, J. H. and D. M. Tartakovsky (Eds.), *The Handbook of Groundwater Engineering*, Third Edition, CRC Press, ISBN: 978-1-49-870304-8, 2016.