

DOUGLAS W. NYCHKA

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Education

Duke University, Mathematics and Physics, *summa cum laude* B.A. 1978
University of Wisconsin - Madison, Statistics Ph. D. 1983

Appointments

7/97- present: Director, Institute for Mathematics Applied to Geosciences (11/2005-present), Project Leader, Geophysical Statistics Project (8/97-6/2006), Senior Scientist (8/99-present)

National Center for Atmospheric Research, Boulder, CO

7/83-6/99: Assistant (7/83-6/89), Associate (7/89-6/94) and Full Professor (7/94-6/99), Department of Statistics North Carolina State University, Raleigh, NC

1/94-7/97 Senior Fellow, National Institute of Statistical Sciences, Research Triangle Park, NC

Awards and fellowships

Fellow, American Statistical Association (2003)

Jerry Sacks Award for Multidisciplinary Research (2004)

Distinguished Achievement Award, American Statistical Association, Section on the Environment (2013)

Achievement Award, International Meeting on Statistical Climatology (2013)

Fellow, Institute of Mathematical Statistics (2015)

Research and Publications

Douglas Nychka's research areas include statistical methods and mathematical theory for curve and surface fitting and a broad interest in data analysis for the geosciences. He is an author on more than 100 peer reviewed articles, H-index 35 (Web of Science) and has edited two books. Some representative publications:

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Synergistic Activities

R contributed packages: See cran.r-project.org

`fields`: Tools for spatial data, Nychka, D., R Furrer, S. Sain, and John Page (2017)
(> 230K downloads since 7/2016)

`LatticeKrig`: Multi-resolution Kriging, Nychka, D., Hammerling, D. and Sain, S. (2017)
(> 3.5K downloads since 7/2016)

Selected Community Service

Surface Temperature Reconstructions for the Last 2,000 Years US, Nat. Academy of Sciences (2006)

Verification & Validation and Uncertainty Quantification, Nat. Res. Council (2010-2012).

Board of Governors, Institute for Mathematical Applications, University of Minnesota (2011- 2015)

Scientific Advisory Board, Pacific Institute of Mathematics (2015 -)