

## HOLGER KANTZ

Max Planck Institute for the Physics of Complex Systems  
Nöthnitzer Str.38, D 01187 Dresden, Germany

### EDUCATION:

Ph.D. in Physics (Dr. rer. nat.), Wuppertal University, 1989  
(thesis advisor: P. Grassberger)  
Diplom in Physics, Wuppertal University, 1986

### PROFESSIONAL EXPERIENCE:

2002–present adjunct professor for Theoretical Physics, University of Wuppertal  
1995–present Head of research group “Nonlinear Dynamics and Time Series Analysis”,  
MPI for the Physics of Complex Systems, Dresden.  
1991–1994 Research assistant, University of Wuppertal  
1990–1991 Postdoctoral fellow, Physics Department, University of Florence, Italy

### SCIENTIFIC ADVISORY COMMITTEES:

Representative in the Scientific Council of the Max Planck Society (2000-2004, 2004-2007)  
Panel member of the German Research Foundation (DFG) for “General Physics” (2000-2003)  
Chairman of the panel “Statistical Physics and Nonlinear Dynamics” of the German Research Foundation (DFG) (2004-2007).  
Editorial board member of “International Journal of Ecodynamics”  
Member of the scientific advisory board of several international conferences (Dynamics Days Europe, PSIP, others).

### GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

Ph.D. students: S. Güttler, F. Schmüser, E. Sinde, L. Matassini, M. Ragwitz, E. Ferretti-Manffra, A. Kaiser, N. Baba, M. Jurgk, D. Holstein, M. Pineda, E. Altmann,  
(total: 12 Ph.D. students, 3 M.Sci. students, and 15 postdoctoral fellows)

### SENIOR COLLABORATORS (in past 48 months):

S. Albeverio, C. Grebogi, W. Just, R. Hegger, H. Hinrichsen, J. Kurths, Y.-C. Lai, E. Olbrich, A. Politi, G. Radons, A. Vulpinai

### SELECTED PUBLICATIONS:

“Coping with non-stationarity by overembedding” (with R. Hegger, L. Matassini, T. Schreiber) *Phys. Rev. Lett.* **84**, 4092 (2000).  
“Nonequilibrium physics meets time series analysis: measuring probability currents from data series” (with W. Just, M. Ragwitz, F. Schmüser), *Europhys. Lett.* **62** 28-34 (2003).  
“Elimination of fast chaotic degrees of freedom: On the accuracy of the Born approximation” (with W. Just, K. Gelfert, N. Baba, A. Riegert), *J. Stat. Phys.* **112**, 277-292 (2003).  
“Phase space reconstruction and nonlinear predictions for stationary and nonstationary Markovian processes” (with M. Ragwitz), *Int. J. Bifurcation and Chaos* **14**, 1935 (2004).  
NONLINEAR TIME SERIES ANALYSIS (with T. Schreiber), Cambridge Nonlinear Science Series No. 7, Cambridge University Press, Cambridge UK, 1997, 1999, revised 2004