

Norbert Stoop

ETH Zurich
HIF E 20
Schafmattstrasse 6
8093 Zurich, Switzerland
stooon@ethz.ch

Born 24.4.1981 in Zurich, Switzerland

Current address:

Im Gispert 2,
CH-8457 Humlikon,

EDUCATION

1988-1994 Primary school in Humlikon
1994-2000 Gymnasium Rychenberg in Winterthur
2001 Gymnasium graduation
2001-2006 Physics studies at ETH Zurich
2006 Diploma in theoretical physics, ETH Zurich
Since 2007 PhD student at ETH Zurich (Group of Prof. Hans Herrmann)

PROFESSIONAL EXPERIENCE

- Linux/Unix system advisor, Gymnasium Bülrain, Winterthur (1999-2001)
- Affiliated partner at Vitus Ltd. (since 2001)

CERTIFICATES, AWARDS AND MEMBERSHIPS

- C++ certificate by ISSC (International School for Scientific Computing)
- Member of the Schweizerische Studienstiftung (national foundation to promote students of outstanding intellectual abilities and personality) (2001-2006)
- Alumni-Member of the Schweizerische Studienstiftung (since 2006)
- IOP poster prize (2nd place) at Nonlinear Dynamics and Chaos: Advances and Perspectives, Aberdeen, UK, 2008

PUBLICATIONS

- Biophysical Parameters Modification Could Overcome Essential Hearing Gaps, A. Kern, C. Heid, W.-H. Steeb, N. Stoop, and R. Stoop, PLoS Computational Biology, 4(8), e1000161 (2008)
- Morphological phases of crumpled wire, N. Stoop, F.K. Wittel, H.J. Herrmann, Phys. Rev. Lett., 101, 094101, featured in *Physics Today*, Aug. 2008 (web and print), as a PRL cover image, and in the German *FAZ* (2008)
- Optimized Broad-Histogram Ensembles for the Simulation of Quantum Systems, S. Wessel, N. Stoop, E. Gull, S. Trebst, M. Troyer, JSTAT, P12005 (2007)
- Managing autonomy and control in social systems, M. Christen, G. Bongard, A. Pausits, N. Stoop, R. Stoop, "Managing Complexity" by D. Helbing (eds.), Springer, Berlin (2007)

- Periodic economic cycles: the effect of evolution and control, M. Christen, T. Ott, A. Kern, N. Stoop, R. Stoop, JSTAT, P 11013 (2005)
- Shiner-Davison-Landsberg complexity revisited, R. Stoop, N. Stoop, A. Kern, W.-H. Steeb, JSTAT, P11009 (2005)
- Complexity of Dynamics as Variability of Predictability, R. Stoop, N. Stoop, L.A. Bunimovich, J. Stat. Phys., 114: (3) 1127-1137 (2004)
- Natural computation measured as reduction of complexity, R. Stoop, N. Stoop, Chaos, 14: (3) 675-679 (2004)
- Towards genuine machine autonomy, J.-J. van der Vyver, M. Christen, N. Stoop, T. Ott, W.-H. Steeb, R. Stoop, Robotics and Autonomous Systems, 46: (3) 151-157 (2004)

ATTENDED CONFERENCES

- **Nonlinear Dynamics in Biophysics**, poster presentation, Max-Planck Institute, Dresden, June 20 - July 15, 2005
- **AIMS 2006**, Session talk, Poitiers, France, June 25 - 27, 2006
- **Statphys 2007**, Poster presentation, Genova, Italy, July 8 - 14, 2007
- **Nonlinear Dynamics and Chaos: Advances and Perspectives**, Poster presentation, Aberdeen, UK, September 17 - 21, 2007
- **Complex Systems 2008**, Session talk, Lavin, Switzerland, January 18 - 22, 2008
- **Dynamics and Statistics of Spatially Extended Systems**, Banff, Canada, January 18 - 23, 2009
- **Journées de Physique Statistique 2009**, Session talk, Paris, France, January 29 - 30, 2009