

## Curriculum vitae of Roland Netz

Date of birth: November 26, 1966  
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### Academic education

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1985-1991 Studies of Physics, TU Berlin and M.I.T., Cambridge, USA  
1/1991 Master of Science, M.I.T., Cambridge, USA  
10/1991 Diploma in Physics, TU Berlin  
3/1994 Ph D. in Physics, University of Cologne

### Academic career

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1997-2002 Research Associate at MPI for Colloids and Interfaces, Potsdam  
2002-2004 Associate Professor (C3) for Theoretical Physics at LMU, Munich  
Since 2004 Professor (Chair, C4) for Soft Matter (Theoretical Physics), Physics  
Department, Technische Universität München

### Scientific visits

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4-9/1994 Postdoc at School of Physics, Tel Aviv  
10-12/1994 Postdoc at Materials Science Lab, UC Santa Barbara, USA  
1995-1996 Postdoc at University of Washington, Seattle, USA  
10-12/1996 Postdoc at Institut Charles Sadron, Strasbourg, France  
1-3/1997 Postdoc at Centre d'Energie Atomique, Saclay, France

### Scientific interests

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Theory of polymers and colloids in bulk and at interfaces; Modeling water structure at interfaces, electrolytes and ion adsorption; Hydrodynamics and non-equilibrium behavior of driven soft matter

### Scientific awards

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1987-1991 Stipendholder of Evangelische Studienstiftung  
1992 Erwin-Stephan Award of the TU Berlin  
2001 Karl-Scheel Award of the Berlin Physical Society  
2009 Gay-Lussac-Humboldt Award

### Editorial boards

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EPJE and the AIP Journal "BioInterphases"

### Selected publications

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1. Internal friction and non-equilibrium unfolding of polymeric globules, Alfredo Alexander-Katz, Hirofumi Wada and Roland R. Netz, Physical Review Letters 103, 028102 (2009)
2. Peptide adsorption on a hydrophobic surface results from an interplay of solvation, surface and intrapeptide forces, D. Horinek, A. Serr, M. Geisler, T. Pirzer, U. Slotta, S. Lud, J. Garrido, T. Scheibel, T. Hugel, R. R. Netz PNAS, 105, 2842 (2008)
3. Impact of loop statistics on the thermodynamics of RNA folding, Thomas Einert, Paul Naeger, Henri Orland, and Roland R. Netz Physical Review Letters 101, 048103 (2008)
4. Shear-induced unfolding triggers adhesion of von Willebrand factor fibers, S. W. Schneider, S. Nuschele, A. Wixforth, C. Gorzelanny, A. Alexander-Katz, R. R. Netz, and M.F. Schneider PNAS 104, 7899 (2007)
5. Shear-Flow-Induced Unfolding of Polymeric Globules, A. Alexander-Katz, M.F. Schneider, S.W. Schneider, A. Wixforth, and Roland R. Netz Physical Review Letters 97, 138101 (2006)