

# Prof. Dr. Daniel Durstewitz

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## Education and Positions

- 2011 - Present Full Professor (W3) for Theoretical Neuroscience at Heidelberg University/CIMH, part-time Professor for Computational Neuroscience, School for Computing and Mathematics, University of Plymouth, UK (since 2013).
- 2010 - Present Coordinator of the Bernstein-Center for Computational Neuroscience Heidelberg-Mannheim.
- 2008 - Present Head of Computational Neuroscience Group at Central Institute of Mental Health, Mannheim.
- 2005 - 2008 Reader (Associate Professor) for Computational Neuroscience, Centre for Theoretical and Computational Neuroscience, University of Plymouth, UK.
- 2000 - 2005 Research Group Leader, Lab for Computational Neuroscience, Institute for Cognitive Neuroscience, Ruhr-University of Bochum, Germany.
- 1998 - 2000 Research Associate at Computational Neurobiology Lab, Salk Institute for Biological Studies, La Jolla, USA.
- 1998 Dr. rer. nat. (Ph.D.) received from Ruhr-University of Bochum (Germany).
- 1994 Diploma: Major in Psychology, Minor in Mathematics.
- 1994 - 1998 Ph.D. scholarship in Cognition, Brain, & Neural Networks graduate program, Ruhr-University Bochum.
- 1992 - 1994 Student of Informatics at Technical University of Berlin, Germany.
- 1989 - 1994 Student of Psychology at Technical University of Berlin, Germany.

## Awards

- 2008 Heisenberg-Award of Deutsche Forschungsgemeinschaft (DFG).
- 2002 - 2007 Membership in the 'Junge Akademie', a young scientists branch at the Berlin-Brandenburgische Akad. der Wiss. (since 2008 National Academy of Science).
- 2000 Emmy-Noether-Award (Young Scientist Excellence Program) of the DFG.
- 1998 Award of the Ruhr-University Bochum for outstanding Ph.D. thesis.

## Key publications

- 2010 Abrupt transitions between prefrontal neural ensemble states accompany behavioral transitions during rule learning.  
Durstewitz D, Vittoz NM, Floresco SB, Seamans JK  
Neuron  
66: 438-448
- 2008 Successful choice behavior is associated with distinct and coherent network states in anterior cingulate cortex.  
Lapish CC, Durstewitz D, Chandler LJ, Seamans JK  
Proc. Natl. Acad. Sci. USA  
105: 11963-8.
- 2007 Dynamical basis of irregular spiking in NMDA-driven prefrontal cortex neurons.  
Durstewitz D, Gabriel T  
Cerebral Cortex  
17, 894-908.
- 2003 Self-organizing neural integrator predicts interval times through climbing activity.  
Durstewitz D  
Journal of Neuroscience  
23, 5342-5353.
- 2000 Dopamine-mediated stabilization of delay-period activity in a network model of prefrontal cortex.  
Durstewitz D, Seamans JK, Sejnowski TJ

Journal of Neurophysiology  
83, 1733-1750.