Surname	First name	Date of birth	Nationality
Bethge	**Matthias**	**26.02.1973**	**German**

Title	**Dr. rer. nat.**
Current position	**Professor of Computational Neuroscience**
Address	**Werner Reichardt Centre for Integrative Neuroscience, Max Planck Institute for Biological Cybernetics, Eberhard-Karls University, Tübingen**

Child care period	☒ No ☐ yes; from to

ACADEMIC EDUCATION

Year	Degree	College or University (Country)	Field of study
1998	**Diploma**	Georg-August-University and MPI for Dynamics and Self-organization, Goettingen	Physics (synaptic dynamics)
2003	**Dr.rer.nat.**	University Bremen	Computational Neuroscience (Neural Coding)

PROFESSIONAL EXPERIENCE

Period	Institution	Position	Discipline
Oct 2009-today	Eberhard Karls University, Tübingen	Professor	Computational Neuroscience
2007-2009	Max Planck Institute for Biological Cybernetics, Tübingen	Independent Research Group Leader (funded by the Bernstein Award)	Computational Neuroscience
2003-2006	Redwood Neuroscience Institute, Menlo Park/ Redwood Center for Theoretical Neuroscience, UC Berkeley MPI for Biological Cybernetics, Department for Empirical Inference	PostDoc	Computational Neuroscience

TEN RELEVANT PUBLICATIONS WITHIN THE LAST FIVE YEARS

01. Hosseini, R., F. H. Sinz and M. Bethge (2010) Lower bounds on the redundancy of natural images. Vision Research 50*(22)*, 2213-2222 (2010).

02. Ecker AS, Berens P, Keliris G, Bethge M, Logothetis NK, Tolias AS (2010) Deccorelated Firing in Cortical Microcircuits. Science 327 (5965): 584-7. (2010).

03. Macke, J. H., S. Gerwinn, L. W. White, M. Kaschube and M. Bethge (2010) Gaussian process methods for estimating cortical maps. NeuroImage Epub ahead, 1-12 (2010).

04. Gerwinn, S., J. H. Macke and M. Bethge (2009) Bayesian population decoding of spiking neurons. Frontiers in Computational Neuroscience 3(21), 1-28 (2009).

05. Sinz F. H. Gerwinn S, Bethge M. Characterization of the p-generalized Normal Distribution. Journal of Multivariate Analysis, 100*(5)*: 817-820.

06. Eichhorn, J., F. H. Sinz and M. Bethge (2009) Natural Image Coding in V1: How Much Use is Orientation Selectivity? PLoS Computational Biology 5(4:e1000336), 1-16 (2009).

07. Macke JH, Berens P, Ecker AS, Tolias AS, Bethge M (2009) Generating Spike Trains with Specified Correlation Coefficients. Neural Computation 21(2), 397-423. (2009).

08. Bethge, M. (2006) Factorial coding of natural images: how effective are linear models in removing higher-order dependencies? Journal of the Optical Society of America A 23(6), 1253-1268 (2006).

09. Silberberg, G., M. Bethge, H. Markram, K. Pawelzik and M. Tsodyks Dynamics of Population Rate Codes in Ensembles of Neocortical Neurons. Journal of Neurophysiology 91(2), 704-709 (02 2004).

10. Bethge, M., D. Rotermund and K. Pawelzik Optimal Short-Term Population Coding: When Fisher Information Fails. Neural Computation 14(10), 2317-2351 (10 2002).

HONORS AND AWARDS

2004   Best thesis award "Bremer Studienpreis"

2006   Bernstein prize for Computational Neuroscience

2007   Selected by the Magazine Capital as a member of the "Junge Elite" in the section "Germany's top 40 scientists under 40".

2008   Coordinator of the Bernstein Center for Computational Neuroscience Tübingen.