

Curriculum vitae

Dr. sc. nat. Dipl. math.

MUFF Stefanie

Born November 5, 1978
Married, 2 children, Swiss citizen

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EDUCATION

09.2009–05.2011 **ETH Zurich**

CAS in applied statistics.

05.2004–03.2009 **University of Zurich**

PhD thesis in the Computational Structural Biology group of Prof. A. Caffisch, Institute of Biochemistry.

Thesis title: “New Computational Methods for the Investigation of Thermodynamics and Kinetics of Protein Folding”.

Graduation with highest honours.

10.2003–04.2008 **University of Zurich**

Didactics diploma in mathematics (Höheres Lehramt).

10.1998–10.2003 **University of Zurich**

Diploma in mathematics (equivalent to Master).

Minor subjects: computer science and biology.

Graduation with highest honours.

08.1993–05.1998 **High School (Gymnasium) KKS Schwyz**

Matura with focus on Mathematics and Sciences.

Award for the best student.

ACADEMIC AND WORK EXPERIENCE

Since 02.2012 **50% Postdoc, University of Zurich**

Joint position with Prof. Leonhard Held at the Division of Biostatistics in the Institute of Social and Preventive Medicine, and Prof. Lukas Keller at the Institute of Evolutionary Biology and Environmental Studies.

02.2010–12.2012 **Lecturer, University of Zurich and ETH Zurich**

Teaching assignments for the following courses:

Bioinformatics I
Bioinformatics II
Lineare Algebra für die Biologie

03.2009–01.2012 **Lecturer, Zurich University of Applied Sciences ZHAW**

Institute of Applied Simulations.

Scientific collaborator and lecturer for mathematics and statistics.

05.2004–12.2008 **PhD thesis, University of Zurich**

Molecular dynamics (MD) simulations of protein biomolecules.

Design, implementation and application of methods for the analysis of large-scale data sets from MD simulations and from ecological field experiments.

Scientific reviewer for the journal *Physical Review E*.

11.2003–12.2003 **Student exchange, Technical University of Kyiv**

LANGUAGES

German: Mother tongue
English: Fluent; very good written and oral skills
French: Conversational; good written and oral skills
Spanish: Conversational; good written and oral skills
Italian: Basic knowledge

SELECTED PEER-REVIEWED PAPERS

S. Muff and L. F. Keller. Reverse attenuation in interaction terms due to covariate measurement error. Submitted to the *Biometrical Journal*.

S. Muff[‡], A. Riebler[‡], L. Held, H. Rue, P. Saner (2015). Bayesian analysis of measurement error models using integrated nested Laplace approximations. *Journal of the Royal Statistical Society. Series C (Applied Statistics)* DOI: 10.1111/rssc.12069. ([‡] Equal contribution)

Ch. Kaiser-Bunbury[‡], S. Muff[‡], J. Memmott, Ch. B. Müller, A. Caffisch (2010). The robustness of pollination networks to the loss of species and interactions: A quantitative approach incorporating pollinator behaviour. *Ecology Letters*, 13(4), 442–452. ([‡] Equal contribution)

S. Muff and A. Caffisch (2009). Identification of the protein folding transition state by free-energy profiles. *J. Chem. Phys.*, 130(12), 125104.

S. Muff and A. Caffisch (2008). Kinetic analysis of molecular dynamics simulations reveals changes in the denatured state and switch of folding pathways upon single-point mutation of a β -sheet miniprotein. *Proteins: Structure, Function and Bioinformatics*, 70(4), 1185–1195.

S. Muff, F. Rao, A. Caffisch (2005). Local modularity measure for network clusterizations. *Phys. Rev. E*, 72, 056107.