

## Curriculum Vitæ



### Personal information

Surname(s) / First name(s) **Bauer, Benedikt**  
Address(es) Moislinger Allee 57a, 23558 Lübeck, Germany  
Email(s) bauer@evolbio.mpg.de  
Nationality(-ies) German  
Date of birth December 27 1986

### Work experience

Mar 2011 – Aug 2011 Research Scholar: Working on a software for structural Protein-Alignment  
Computational Visualization Center, Institute for Computational Engineering and Sciences, University of Texas, Austin

Oct 2010 – Feb 2011 Student Assistant: Leading the exercise class to „Mathematical Modelling of Biological Systems“ and grading the exercise sheets  
Institute of Mathematics, University of Luebeck

Jun 2010 – Oct 2010 Student Assistant: Developing a software for processing microscopy images and videos  
Institute of Biology, University of Luebeck

May 2009 – Oct 2009 Student Assistant: Co-serving a research website about multiple sclerosis  
Institute of Neuro– and Bioinformatics, University of Luebeck

Oct 2007 – Mar 2009 Student Assistant: Teaching mathematically gifted pupils (grades 7 and 8) and preparing them for mathematics competitions; Serving the website for this program  
Institute of Mathematics, University of Luebeck

### Education and training

Feb 2012 – dato Ph.D. student  
Mathematical Biology: Evolutionary Cancer Modeling  
Max-Planck-Institute for Evolutionary Biology in Ploen

Oct 2009 – Jan 2012 Master of Science: Computational Life Sciences – Grade 1.3 (A)  
Master's Thesis: Structural And Functional Protein Alignment  
University of Luebeck

Oct 2006 – Oct 2009 Bachelor of Science: Computational Life Sciences – Grade 1.6 (A-)  
Bachelor's Thesis: Mathematical Modelling of the Creatine buffer in the High-Energy-Phosphate-Metabolism

	University of Luebeck
1997 – 2006	Allgemeine Hochschulreife (comparatively to an advanced High School Diploma) – Graduation Grade: 2.0 (B) Advanced Courses: Mathematics, English Freiherr-vom-Stein Gymnasium, Luenen
Aug 2003 – May 2004	High School Diploma, GPA: 4.929 AP Course: Calculus Memorial High School, Port Arthur, Texas, USA
<b>Personal skills and competences</b>	
Mother tongue(s)	<b>German</b>
Other language(s)	English: fluent in speaking and writing
Computer skills and competences	Knowledge in Matlab, Mathematica, Java, C++, PHP, Perl, Bash, Linux
Social skills and competences	Board member and finance instructor of the students' union executive committee (Oct 2008 – Sep 2010) Free member of the students' union executive committee (Oct 2007 – Sep 2008) Coach for the young sportsmen of the Table Tennis Club TTC Gahmen (2005 – 2006) Altar server (1997 – 2005)
	<b>Publications</b>
	C. Bajaj, B. Bauer, R. Bettadapura, and A. Vollrath. Nonuniform fourier transforms for rigid-body and multi-dimensional rotational correla- tions. <i>accepted in SIAM Scientific Computing</i> , 2013
	B. Bauer and A. Traulsen. Cancer initiation with epistatic interactions between driver and passenger mutations. <i>submitted</i> , 2013
Personal interests	Actively rockclimbing (mostly indoor) since 2010 Basketball