

Curriculum Vitae – Tobias Gebäck

Personal data

Name: Johan Tobias Gebäck
Date of birth: Nov 7, 1977 in Partille, Sweden
Home address: Fallströmsgatan 13,
SE-431 41 Mölndal, Sweden
Telephone: +46 31 772 3547 (work)
+46 31 122062 (home)
E-mail: tobias.geback@chalmers.se
Family: Married since July 7, 2007 with 1 child (born 2009)

Academic degrees

Feb 2, 2007 *Doctor of Technology* in Applied Mathematics
(Title of the thesis: *Boundary value problems for intracellular subdiffusion and signaling pathways, and for geometric flows*)
Apr 2005 *Licentiate of Technology* in Applied Mathematics
(Title of the thesis: *On some problems in systems biology and geometric flows*)
Feb 2002 *Civil engineer and Master of Science* in Engineering Physics, specialized in Engineering Mathematics
(Title of the Master's thesis: *Semigroups, viscosity solutions and convergence of an algorithm for generalized curvature flow*)

Current position

Postdoctoral position, Dept. of Mathematical Sciences, Chalmers University of Technology, Göteborg, (research only), 50% from Feb 2010, 100% from Sep 2010,
Research in Lattice Boltzmann simulations and particle transport equations.

Previous academic positions

Sep 2007—Aug 2008 *Postdoctoral position*, Institut für Computational Science, ETH Zürich, (research only), Research in applied computational mathematics and image analysis.
Sep 2009—Aug 2010 *Postdoctoral position*, Dept. of Engineering, University of Borås, Borås (research only), Research in Gibbs' ensemble Monte Carlo simulations. 50% from Feb 2010

Interruptions in research

Mar—Jul 2007 *Consultant for G-Coder Systems AB.*
and Sep 2008—Aug 2009 Hardware/software development for keyhole surgery training and virtual rehabilitation.
June—July 2011 *Parental leave.*
and 60% from Feb 2012

Awards

May 2003 The *John Ericsson medal* for outstanding scholarship for the degree of Master of Science in engineering

Other working merits

Aug 2004—Dec 2006 *Mathematics consultant* at the Department of Mathematical Sciences,
Chalmers University of Technology
2005 *Assistant supervisor* for Master's thesis
2002—2007 *Teaching assistant and lecturer*, courses in mathematics, Chalmers

Non-profit work

2004—2007 *Treasurer* in Haga Motet-choir, Göteborg
1995—2000 *Treasurer* in Floorball club Mission, Partille

Computer abilities

Experienced programmer in C and C++ (in Mac and Linux environments, and in Windows environment using Microsoft Visual Studio .NET)
Experience with parallel programming in MPI and OpenMP
Experienced user and programmer in Matlab
Good knowledge of: Mathematica, Latex, MS Office, ParaView, Python, HTML, etc.

Other merits

Driver's licence, type B (passenger car), 1996
Diploma, Associated Board of the Royal Schools of Music, Classical Guitar, Grade 8, 2002
Diploma, Associated Board of the Royal Schools of Music, Music Theory, Grade 8, 2002

Languages

Swedish (native language)
English (fluent in speech and writing)
German (almost fluent in speech and writing)