

Dr. Christian Schröder

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Personal information

born 1978 in Crivitz, Germany
single, no kids

Positions

- 2011 - 2012 Guestprofessor for mathematics at Technische Universität Berlin (18 months)
- 2009 - 2010 Step-in-professor for mathematics at Technische Universität Hamburg (6 months)
- 2009 - now Freelancing work,
consulting and programming regarding problems in applied mathematics
- 2004 - 2017 Research assistant at Technische Universität Berlin,
specialized in numerical mathematics,
member of MATHEON (research center funded by German research foundation)
- 2002 - 2003 Internship at EADS Airbus Deutschland GmbH, Hamburg (4 months)
- 1998 - 2003 Tutor in linear algebra at Technische Universität Hamburg, math department,
student assistant at Technische Universität Hamburg, computer science dept.
- 1997 - 1998 Military service (10 months)

Education

- 2004 - 2008 PhD in numerical mathematics at Technische Universität Berlin
dissertation: Palindromic and Even Eigenvalue Problems
degree: Dr. rer. nat. (Grade: sehr gut)
- 2003 - 2004 Studies in Applied and Computational Mathematics at the University of Oxford
masters thesis: A Generalised Moment Problem and its Application to Classification
made possible by a scholarship of the Rotary Foundation
degree: Master of Science
- 1998 - 2003 Studies in Computer Science and Engineering at Technische Universität Hamburg
specialization: scientific computing
diploma thesis: Analysis and Implementation of the Riccati Algorithm
degree: Diplom-Informatikingenieur (grade 1,1)
(2001: prize for best pre-diploma endowed by PHILIPS)
- 1985 - 1997 Primary & grammar school, in Crivitz, Germany
degree: Abitur (grade: 1,6)

Teaching experience

- **lecturer** of math courses (taught in German or English), 34 hours per week total, since 2011, “Numerical Linear Algebra I and II”, “Model reduction”, “Control Theory”, TU Berlin
- **lecturer** of math courses for engineers (with up to 1000 students), 20 hours per week total, “Linear Algebra f. Eng.”, “Numerics f. Eng.”, TU Berlin, TU Hamburg, since 2009
- **Assistant** for courses “Numerical Mathematics in Eng.”, “Numerical Mathematics in CS”, “Introduction to Numerical Mathematics” (for Math students), at TU Berlin, 2007-09
- **Advisor** of PhD student (Ute Kandler, TU Berlin, since 2011), as well as of several masters theses and student assistants in research and industrial projects, at TU Berlin, 2004, 2007-12

Project experience

- modeling of a material law for brake oils, for Hasse+Wrede GmbH Berlin, 2016/17
- Simulation of disk brake squeal, industry consortium incl Audi, 2015/16
- Passivation of LTI-systems, for CST GmbH, Darmstadt, 2007
- Rational approximation of matrix functions, EADS Airbus Germany GmbH, 2003
- Obtaining optimal transaction strategies, Royal Bank of Scotland, London, 2007
- Solving sequences of large sparse linear systems, SFE GmbH Berlin, 2008-11
- “Numerical solution of large nonlinear eigenvalue problems”, project C4 within MATHEON (research center funded by German research foundation), 2004-08

Organisational experience

- Organisation of a workshops BMW06 “Berlin Manchester Workshop on Nonlinear Eigenvalue Problems2006”, in Berlin, Germany
- Organisation of a Young Researchers Minisymposium “Nonlinear and Structured Eigenvalue Problems” at GAMM annual conference 2011 in Graz, Austria
- Organisation of a minisymposium “Genuine Nonlinear Eigenvalue Problems” at ICIAM Conference 2011 in Vancouver, Canada

Vocational training

- Project management, time management, potential analysis
- Presentation training in English, rhetorics training, negotiation training
- Teaching for University's Best

Languages and programming languages

- English, fluent, spoken and written
- Matlab, Fortran, Java, C, LaTeX

Hobbies

- Sailing, rowing, cycling
- Salsa dancing