

Paul Boeck

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Personal Information

Born on 29.08.1987
Nationality German

Education

09.2010 - 06.2011 **Erasmus**, *University of Edinburgh*.
09.2008 - 06.2014 **Diplom Mathematics**, *Humboldt-Universität zu Berlin*.
comparable to MSc Mathematics
07.2007 - 03.2008 **Military service**, *Münster*.
08.2000 - 07.2007 **Abitur**, *Alexander-von-Humboldt Gymnasium Berlin*, 1.6.
comparable to A-levels

Languages

German, *native speaker*.
English, *business fluent*, 1 year in Edinburgh.
French, *basic*, 5 years of school.

Skills

Programming Languages **Java, C++, Delphi, Matlab, SQL, PHP, LaTeX**.
Software **MS Windows, MS Office, Linux, Git, Mathematica**.
Research Interests **Optimization, Modeling, ODEs, Machine Learning**.

Work experience

10.2012 - 03.2014 **Student Assistant**, *Deutsches Zentrum für Luft- und Raumfahrt, Institute of Transport Research*.
I am assisting the traffic modeling team by building tools (Java, SQL, Gis) to analyze results and by sanitizing and compiling data.

- 05.2013 - 10.2013 **Student Assistant**, *Humboldt-Universität zu Berlin, Department for Mathematics*.
I run the tutorial for the course *Computer Oriented Mathematics* which included preparing and correcting the exercises and exams as well as giving lectures and small group tutorials.
- 09.2011 - 09.2012 **Student Assistant**, *Humboldt-Universität zu Berlin, Department for Computational Mathematics*.
I was assisting Prof. A. Schröder and his research group (FEM, Matlab) in research and teaching.
- 03.2010 - 08.2010 **Student Assistant**, *ZIB - Zuse Institut Berlin, Visualization and Data Analysis Department*.
I independently applied a mathematical algorithm on a problem of this research group. (MDS on the correspondence problem, working with their C++-framework and Matlab).
- 04.2008 - 10.2009 **Software Engineer**, *MES - Medien Elektronik Software*.
I developed an internal license-managing system (small SQL database, Delphi front end).
HTML export for audio and video out of their product.
I analyzed a product of another company for future usage.

Research

- 03.2013 **GAMM**, *Numerical Integration of Lipschitzian ODEs*.
I attended and gave a talk at the GAMM (International Association of Applied Mathematics and Mechanics) with the given title.

Publications

- Paul Boeck. "Implementation and Application of the Generalized Midpoint Rule for Lipschitzian ODEs". Diplomarbeit. Humboldt Universität zu Berlin, 2014.
- Paul Boeck et al. "Experiments with Generalized Midpoint and Trapezoidal Rules on two Nonsmooth ODE's". In: *Mongolian Mathematical Journal* 17 (2013).

Further Interests

Couch Surfing.

I was an active member of the Couch Surfing community in Edinburgh. That means, I worked with natives to help international visitors to find a flat, a university or a touristic program for the weekend.

Tutoring.

To spread my enthusiasm for mathematics, I gave tutoring lessons at Merchiston Castle, a boarding school in Edinburgh.

Throughout my studies I also helped a lot of student fellows with programming, LaTeX, or the access to university infrastructure.

Mountaineering.

As a compensation for my technology focused daily routine, I leave civilization with a tent and a big rucksack at least once a year to go hiking.