

MANUEL BAUMANN

PhD Candidate & Scientific Programmer

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Delft, NL



EXPERIENCE

PhD researcher

Delft University of Technology

June 2013 - ongoing

Delft, NL

- Fast iterative solution of the time-harmonic elastic wave equation at multiple frequencies

EDUCATION

PhD in Applied Mathematics

Delft University of Technology

June 2013 - ongoing

Delft, NL

MSc in Computational Science

Delft Univ. of Technology & KTH Stockholm

Aug 2011 - June 2013

Delft, NL & Stockholm, SE

BSc in Mathematics

Technical University of Berlin

Oct 2008 - Aug 2011

Berlin, GER

BSc in Scientific Engineering

Technical University of Berlin

Oct 2007 - Mar 2011

Berlin, GER

LANGUAGES

German

Native



English

Proficient



Dutch

Advanced



French

Advanced



TECHNOLOGIES

Programming languages

Python

MATLAB

Fortran 90

Scientific software

git

LaTeX

Linux

LAPACK

CUDA

MPI

PROJECTS

Nested Krylov methods for shifted linear systems

Journal publication

An MSSS-Preconditioned Matrix Equation Approach for the Time-Harmonic Elastic Wave Equation at Multiple Frequencies

Journal publication

Internship at German Aerospace Center

June 2009 - Sep 2009

Braunschweig, GER

Coupled flow-structure simulations with MPI

SIAM Student Chapter

Apr 2014 - Sep 2015

Inaugural president of the SIAM Student Chapter at TU Delft