

Eivind Fonn

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PERSONALIA

I am a 29 year old Norwegian, born, grown up and with undergraduate studies in Trondheim, Norway. Moved to Zürich, Switzerland for graduate studies. Interested in mathematics, computing, programming, photography, chess and books.



Ph.D., applied mathematics 2009-09 → 2013-11
ETH Zürich, Zürich, Switzerland
Solving high-dimensional kinetic transport equations, bridging the “curse of dimensionality”. Particular focus on Shearlet frames and the Boltzmann equation.

Master of Technology, industrial mathematics 2004-08 → 2009-06
NTNU, Trondheim, Norway
Specialisation in numerical analysis and differential geometry.

PUBLICATIONS

Approximation in space and velocity for kinetic transport equations.
E. Fonn. *Dissertation, ETH Zürich, 2014.*
10.3929/ethz-a-0100602019

Polar spectral scheme for the spatially homogeneous Boltzmann equation.
E. Fonn, P. Grohs and R. Hiptmair. *Technical report, SAM, ETH Zürich, 2014.*

Hyperbolic cross approximation for the spatially homogeneous Boltzmann equation.
E. Fonn, P. Grohs and R. Hiptmair. *IMA Journal of Numerical Analysis, 2014.*
10.1093/imanum/dru042

SKILLS

Programming: Python, Matlab, Haskell, C, C++, C#, Java, PHP, JS
Databases: PostgreSQL, MySQL, MS SQL
Assorted computer: ~~TEX~~, (X)HTML, CSS, XML
Operating Systems: Assorted Linux distributions, Windows
Languages: Fluent Norwegian and English, decent German

EXPERIENCE

Research Scientist 2014-05 → present
SINTEF Applied Mathematics, Trondheim, Norway Large-scale parallel simulations using isogeometric analysis finite element methods.

Ph.D. student 2009-09 → 2013-11
ETH Zürich, Zürich, Switzerland
Solving high-dimensional kinetic transport equations, bridging the “curse of dimensionality”. Implementation in Matlab and Python. Includes a 40% teaching load.

Software engineer Summer 2009
Jeeves, Trondheim, Norway
Implemented a translation tool built on Google Translate, which can read and write a number of different formats (such as Microsoft Word and database tables), with some facilities for correcting erroneous translations and learning.

Software engineer Summer 2008
Yahoo! Technologies, Trondheim, Norway
Implemented an adapter between MySQL and Yahoo’s internal vertical search platform

Vespa, together with several demo cases. Responsibilities included the entire process, from design to completion.

Scientific assistant

Summer 2007

ETH Zürich, Zürich, Switzerland

Implemented a finite volume method for solving the convection/diffusion/reaction equation in Matlab. Also did some post-processing of photonic crystal simulations. This was an IAESTE internship.

AWARDS

- Winnie and Ragnar Mathisen's award for best student of technology or architecture in the 2009 graduating class at NTNU.
- The Norwegian Computing Centre's award for best master thesis in mathematics or ICT at NTNU in 2008/09.
- The Stubban award for the most promising master candidate in mathematics at NTNU among the 2009 graduating class.

ASSORTED

- Founder of the Aligulac project¹, a rating system and historical database for professional Starcraft II, now maintained by a team of about 15 volunteers.
- Part organiser of the inaugural edition of KoMiN—a now annual conference for mathematics students in Norway.
- Designed problems, graded answers and maintained the website for the Abel Competition, the Norwegian mathematical olympiad for high school students.
- Driving force and main organiser of the first two editions of the Norwegian Rubik's Cube Championship.
- Former national record holder in Rubik's Cube speedsolving and speedsolving while blindfolded (single and multiple).

POSITIONS OF TRUST

- Webmaster² and board member for the IAESTE Local Committee Zürich for four years (2010-2013).
- Recognised by the World Cubing Association as a competition delegate.
- Webmaster and board member for the Student association Nabla at NTNU for three years (2005-2007).

REFERENCES

On request.

SOCIAL SITES

- Github: <http://github.com/TheBB>
- LinkedIn: <http://www.linkedin.com/pub/eivind-fonn/5/364/67>

¹<http://aligulac.com/>

²<http://iaeste.ch/>