



CONTACT



Hartmeyerstraße 94,
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fsschneider.github.io

LANGUAGES

German

mother
tongue

English

TOEFL-score
117/120

French

5 years
in school

Spanish

3 years in
school

Dutch

language level
A2

REFERENCES



Prof. Dr. Philipp Hennig

MoML - University of Tuebingen
philipp.hennig@uni-tuebingen.de



Michiel Hochstenbach, Ph.D.

Associate professor (TU/e)
m.e.hochstenbach@tue.nl



Maxim Pisarenco, Ph.D.

ASML Research
maxim.pisarenco@asml.com

FRANK SCHNEIDER

PH.D. STUDENT

INTERNATIONAL MAX PLANCK RESEARCH SCHOOL FOR INTELLIGENT SYSTEMS

EDUCATION

Ph.D.
Student
since 2017



Probabilistic Numerics - IMPRS-IS

Working on "Automating Deep Learning Optimization" at the [Max Planck Institute for Intelligent Systems](#) and the [University of Tuebingen](#).

Supervision: Prof. Dr. Philipp Hennig

Double
Master's Degree
2015 - 2016



Simulation Technology - University of Stuttgart Industrial and Applied Mathematics - TU/e, Eindhoven

Focus on numerics and mathematical applications.

Master's thesis at [ASML](#) with the title
"Approximation of Inverses of BTTB Matrices for
Preconditioning Applications".

Supervision: Michiel Hochstenbach, Ph.D., TU/e.

Bachelor's
Degree
2011 - 2015



Simulation Technology - University of Stuttgart

Focus on a broad education in mathematics,
engineering, computer & natural science.

Bachelor's thesis in cooperation with [Fraunhofer
Institute for Industrial Engineering](#) with the title
"Analysis, evaluation and optimization of an agent-based
model simulating warning dissemination".

Supervision: Prof. Dr. Albrecht Schmidt

Abitur
2001 - 2010



Gymnasium - Robert-Bosch-Gymnasium, Gerlingen

Accolades of the parent's council and of the German
Physics Society (DPG).

EXPERIENCE

Teaching Assistant
since 2018



Software Practicals - University of Tuebingen

Creating Bundesliga prediction systems.

Probabilistic Inference and Learning - University of Tuebingen

Tutor for a probabilistic machine learning lecture.

Research Assistant
2017 (1 month)



HONOM 2017 - IAG University of Stuttgart

European Workshop on High Order Nonlinear
Numerical Methods for Evolutionary PDEs.

Research Assistant
2017 (1 month)



Programming Course - IADM University of Stuttgart

Tutor for programming course for MATLAB and C++.

Intern
2016 (6 months)



Master's Project - ASML Netherlands B.V.

Working on preconditioners for large linear systems.

Student Assistant
2014 - 2015
(8 months)



Bachelor's Project - IAT University of Stuttgart

Analysis, evaluation and optimization of an agent-based
warning dissemination model.

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PUBLICATIONS

DeepOBS: A Deep Learning Optimizer Benchmark Suite – [Schneider F., Balles L. & Hennig P.](#)

International Conference on Learning Representations (ICLR), 2019

We provide a software package that drastically simplifies, automates, and improves the evaluation of deep learning optimizers.

Inverse generating function approach for the preconditioning of Toeplitz-block systems – [Schneider F. & Pisarenco M.](#)

Numerical Linear Algebra and its Applications, 2018

We propose a new preconditioner for Toeplitz-block matrices based on the inverse generating function.

INTERESTS

Summer Schools

2018 | Gaussian Process Summer School, University of Sheffield, UK

2018 | Microsoft Research AI Summer School, Cambridge, UK

Online Courses

2017 | CS 20SI: Tensorflow for Deep Learning Research,
Stanford University, self-study

2016 | Machine Learning Stanford University, Coursera

2016 | CS 231n: Convolutional Neural Networks for Visual Recognition,
Stanford University, self-study

OTHER

Acting

since 2012 | Founder, actor, director of "Volles Rohr Theater", student drama group

2015 - 2016 | Member of "Doppio", student acting group in Eindhoven

2011 | Lead actor in "Ein Schritt zu weit"

2005 - 2012 | Member of the drama school group (actor, assistant director)

2014 | Extra in "Die Verantwortlichen"

Attendee of multiple workshops, such as "Impro-Akademie" (Tübingen, 2013, Volker Quandt) or "Touch the silence" (Stuttgart, 2015, Carlos Martinez)

Sports

2004 - 2010 | Member badminton section "KSG-Gerlingen"
Recreational soccer

Miscellaneous

2007 - 2010 | Member and treasurer of a youth group organizing youth camps and other events for younger pupils

Attendee "Model UN BW" and member of a political youth group

Other hobbies include guitar, reading, traveling, photography and design



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SKILLS

Programming

★ ★ ★

Python (NumPy, TensorFlow,...)

★ ★ ★

Matlab

★ ★ ★

C++

Office, Text and Visual

Adobe InDesign

Adobe Photoshop

Adobe Lightroom

Gimp

LaTeX

Microsoft & Libre Office