



FRANK SCHNEIDER

PHD STUDENT

INTERNATIONAL MAX PLANCK RESEARCH SCHOOL FOR INTELLIGENT SYSTEMS

CONTACT



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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

EDUCATION

PhD

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](#).

Supervisor: 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



Probabilistic Inference and Learning - [University of
Tuebingen](#)

Lecture by Prof. Dr. Philipp Hennig on probabilistic
machine learning (e.g. Gaussian Processes, graphical
models,...).

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. Support for the round
table at the Fraunhofer IAO about research in civil pro-
tection.

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PUBLICATIONS

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

Numerical Linear Algebra and its Applications, 2018

INTERESTS

Summer Schools

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

2018 | Microsoft Research AI Summer School, Cambridge, UK

Acting

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

2012 - 2018 | Founder, actor, director of "Volles Rohr Theater", student drama group

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 (university sports)

Various fitness sports, climbing, bouldering, biking, surfing

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

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

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SKILLS

Programming

★ ★ ★

Python (NumPy, TensorFlow,...)

★ ★ ★

C++

Matlab

Office, Text and Visual

Adobe InDesign

Adobe Photoshop

Adobe Lightroom

Gimp

LaTeX

Libre & MS Office