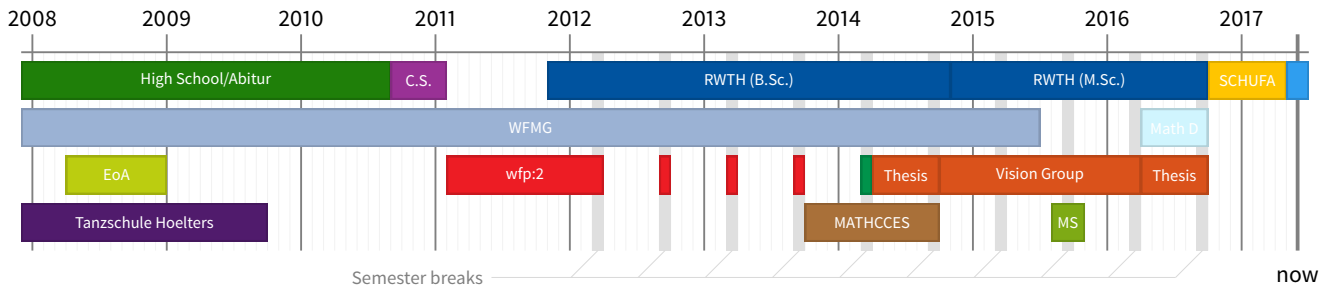


Tobias Pohlen

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I am a **research engineer** and young **scientist** with a distinct focus on **machine learning** and **computer vision**.

I thrive on solving hard problems by developing novel and innovative ideas that challenge the state-of-the-art.



EDUCATION

RWTH Aachen University. Aachen, Germany

Master of Science (M.Sc.) in Computer Science (Minor: Math) 10.2014 – 9.2016

Graduated with distinction / Final grade: 1.0

Focus areas: *Machine Learning and Deep Learning, Computer Vision, Image Processing*

Bachelor of Science (B.Sc.) in Computer Science (Minor: Math) 10.2011 – 09.2014

Graduated with distinction / Final grade: 1.2

Focus areas: *Machine Learning, Computer Vision, Numerical Mathematics*

Gymnasium Rheindahlen (High school). Moenchengladbach, Germany 08.2001 – 07.2010

Grades are given in their original German grading system. Best grade: 1.0; worst grade: 5.0 (failing grade)

WORK

EXPERIENCE

Google DeepMind. London, United Kingdom

Research Engineer 4.2017 – present

Just started. Nothing interesting to report here. Move on.

InnovationLab, SCHUFA Holding AG. Wiesbaden, Germany

Research Engineer 10.2016 – 3.2017

I developed a deep learning based language processing system for parsing unstructured text.

Microsoft. Oslo, Norway

Software-Engineering Intern 08.2015 – 10.2015

I worked on the OfficeGraph and developed a debugging tool that increased the team's productivity.

WFMG - Wirtschaftsfoerderung Moenchengladbach GmbH. Moenchengladbach, Germany

Administrator & Web-Developer 03.2006 – 06.2015

I developed, maintained, and enhanced several websites that we used to automate project specific administration tasks.

Veritendo GmbH & Co. KG. Cologne, Germany

Developer 03.2014

I implemented custom web crawlers that acquire structured data from semi-structured product review sites.

wfp:2 GmbH & Co. KG. Moenchengladbach, Germany

Software-Engineer (web) 02.2011 – 03.2012, 09.2012, 03.2013, 09.2013

I developed and maintained many customer specific TYPO3 extensions.

Elements of Art GmbH. Moenchengladbach, Germany

Software Engineer (web) 03.2008 – 12.2008

I developed front-end and back-end modules for the custom CMS of toggo.de.

PUBLICATIONS	<p>Full-Resolution Residual Networks for Semantic Segmentation in Street Scenes T. Pohlen, A. Hermans, M. Mathias, B. Leibe Conference on Computer Vision and Pattern Recognition 2017 (CVPR'17).</p> <p>Semantic Segmentation of Modular Furniture T. Pohlen, I. Badami, M. Mathias, B. Leibe Winter Conference on Applications of Computer Vision 2016 (WACV'16)</p>
RESEARCH EXPERIENCE	<p>Computer Vision Group. RWTH Aachen University Thesis research 04.2016 – 09.2016 Thesis title: <i>Semi-Supervised Deep Learning for Semantic Image Segmentation.</i></p> <p>Student Research Assistant 10.2014 – 03.2016 Conducting research in the area of semantic segmentation of furniture items.</p> <p>Thesis research 04.2014 – 09.2014 Thesis title: <i>Semantic Segmentation of Cabinets using Attribute Graph Grammars.</i></p>
TEACHING EXPERIENCE	<p>Chair for Mathematics D. RWTH Aachen University Teaching Assistant/Tutor 4.2016 – 09.2016 Lecture: “<i>Linear Algebra</i>“</p> <p>Center for Computational Engineering Science. RWTH Aachen University Teaching Assistant/Tutor 10.2013 – 09.2014 Lectures: “<i>Fundamentals of Mathematics II</i>“, “<i>Analysis for CS students</i>“ Topics: <i>Real Multivariable Calculus, Numerical Linear Algebra, Constrained Optimization, ODEs</i></p>
ACADEMIC HONORS & AWARDS	<p>Deutschlandstipendium (Scholarship) 10.2015 – 09.2016 Awarded to students with excellent grades.</p> <p>Dean’s List (Award) 12.2014, 12.2016 Awarded by the university to the top 5% of graduates.</p> <p>Schoeneborn Preis 2014 (Award) 12.2014 Awarded by the faculty of computer science to outstanding graduates.</p>
SKILLS	<p>Language skills German: Native speaker, English: Fluent (TOEFL 117/120)</p> <p>Programming languages and software C++, Python/Theano, Git, MATLAB, PHP, JavaScript, SQL, JAVA, C#</p>
MISC.	<p>Caritas. Moenchengladbach, Germany Compulsory community service (Zivildienst) 08.2010 – 01.2011</p> <p>Tanzschule Hoelters. Moenchengladbach, Germany Instructor 01.2006 – 06.2009</p>