

# Martin Schrimpf

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                     Germany  
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## Academic

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04/2016            **Master's Thesis, Kreiman Lab, Harvard University**  
- 11/2016          Research at the bridge of machine learning, neuroscience and psychology with a focus on the role of recurrent connections. We improved object detection performance on occluded objects from 45% with Alexnet to 74% with our models and offered a first possible application of recurrency in the human brain. A follow-up project focuses on the role of scene context for object detection  
Technologies: Python, Matlab, Linux

10/2014            **Elite Master's Program Software Engineering,**  
- 10/2016          *TU Munich, LMU Munich and University of Augsburg*, Ø1.1  
Elite Graduate Program for a small group of students with a focus on the areas Formal Methods, Project Management, Distributed Systems, Databases, Human Computer Interaction and soft-skills  
Technologies: Java, C++, SQL, QVTO, Maude, CTL, LTL

07/2014            **Study Abroad, Auckland University of Technology**, Ø1.2  
- 11/2014          Courses in Artificial Intelligence, Leadership, Organizational Behavior and Highly Secure Systems. Project on a novel landmark-based approach to perceptual mapping (SLAM) at CAIR  
Technologies: C++, ARIA, Java

11/2013            **Bachelor's Thesis "Scalable Database Concurrency Control using Transactional Memory"**, *University of Sydney and TU Munich*, 1.0  
- 07/2014          Investigation of hardware transactional memory and its effectiveness as a synchronization technique for a database storage component  
Technologies: C++, C, Assembly

10/2011            **Bachelor's Program Information Systems, TU Munich**, Ø1.4  
- 07/2014          Combination of economic fundamentals and computer science with a focus on Information Systems  
Technologies: Java, SQL, C++

2003                **Abitur, Gymnasium Dorfen**, Ø1.5  
- 2011              Focus on Mathematics, Computer Science, Economics, English

10/2008            **USA-exchange, C.D. Hylton High school, Virginia**  
- 12/2008          Experienced the daily American life with a host family and regular school attendance  
  
All grades in the German scale (1.0 excellent - 5.0 fail)

## Professional

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12/2015 - 04/2016	<b>Research Assistant, Oracle Labs</b> Developed an on-demand database module for the computing cluster that is now used by numerous research teams <u>Technologies:</u> Linux, LSF, Virtual Machines
07/2015 - 10/2015	<b>Software Engineering Intern, Siemens AG</b> Architectural concept and implementation of a behavior-driven testing framework that can run a test specification written in natural language and that is now used in three major business areas <u>Technologies:</u> Python
07/2012 - 12/2015	<b>Foundation of Martin Schrimpf Software Solutions</b> Software Development and Services - projects include: <i>Greimel IT-Systemhaus GmbH</i> Led the development of a Document Management System including a financial accounting interface and a dynamic workflow management system <i>R-Backup Datensicherung GmbH</i> Developed a multilingual website's front- and backend to administrate partners and customers and to issue invoices <i>Deutsche Flugsicherung GmbH</i> Developed a tool for exercise preparation, containing best-route-finding in thousands of waypoints and pre-simulation of the entire exercise. The project unfortunately never went live due to contract constraints <i>Promonde JLT</i> Developed an advertisement website for Arabic countries with over 10k users per day <u>Technologies:</u> Java, JavaScript, PHP

## Extracurricular Activities

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02/2016	<b>Artificial Intelligence Workshop</b> Organized a two-day workshop on Neural Networks, Machine Learning and Organic Computing. The speakers were Prof. Günther Palm, PD Rolf Würtz and Dr. Joschka Bödecker
Since 08/2015	<b>Technical Lead, Integreat</b> Platform to deliver information from local authorities and helper organizations to refugees in over 80 German cities. Implementation of the administration backend and a cross-platform app, later coordination of the development community <u>Technologies:</u> Xamarin (C#), Android (Java), WordPress (PHP)
2015	<b>Deutschlandstipendium</b>
201{5,6}	<b>MINGA Mentor for International Students, TU Munich</b>
Since 10/2013	<b>Rotaract Club München Residenz</b> Youth club of Rotary, based on the community, helping and learning. Social initiatives, e.g. with our orphanage sponsorship
201{3,4,5,6}	<b>e-fellows.net scholarship</b>
10/2012	<b>SAP Certified Business Associate with SAP ERP 6.0</b>
10/2012	<b>English Language Certificate C2/UNiCert level IV</b>