

I AM OPENSOURCE FAN

STUDYING COMPUTER SCIENCE AND MATH

DAVID STUTZ

RWTH STUDENT AND GEORGIA TECH ALUMNI

COMPUTER VISION RESEARCH SCIENTIST

WEB DEVELOPER, VIDEOGAME ENTHUSIAST, GUITARIST

## CURRENTLY

RWTH Aachen University  
M.Sc. in Computer Science

10/2014 – today, Aachen, GER

RWTH Aachen University  
Student Research Assistant

05/2015 – today, Aachen, GER

## CONTACT

davidstutz@web.de

davidstutz.de  
github.com/davidstutz  
twitter.com/david\_stutz

I am passionate about computer science – its versatility, its origins in mathematics, its applications. Focusing on computer vision and machine learning, I combine the depth of theory with the most interesting applications of today's world.

Planning a career in academia, I am not only eager to acquire new knowledge, but also motivated to share this knowledge with other professionals as well as future generations.

## EDUCATION

RWTH Aachen University  
M.Sc. in Computer Science (expected 2016, 4.0 GPA)  
B.Sc. in Computer Science (with distinction, 4.0 GPA)  
*Thesis: Supersample Segmentation using Depth Information.\**  
Advisor: Prof. Dr. Bastian Leibe

10/2011 – today, Aachen, GER

Georgia Institute of Technology  
Graduate Exchange Student (4.0 GPA)

01/2015 – 05/2015, Atlanta, GA

## EXPERIENCE

Computer Vision Group, RWTH Aachen University  
Student Research Assistant  
*Evaluation and comparison of state-of-the-art supersample algorithms.*  
Advisor: Prof. Dr. Bastian Leibe

05/2015 – today, Aachen, GER

Computational Perception Laboratory, Georgia Institute of Technology  
Visiting Graduate Student  
*Video segmentation using intrinsic characteristics and semantic segmentation of weakly-labeled video.*  
Advisor: Prof. Irfan Essa, Ph.D.

01/2015 – 05/2015, Atlanta, GA

MATHCCES, RWTH Aachen University  
Tutor, "Fundamentals of Mathematics II", "Calculus for Computer Science"  
*Responsibilities include presenting exercises to a group of 30-50 students and grading weekly homework as well as final exams.*

10/2013 – 01/2014, 04/2014 – 09/2014, Aachen, GER

RS Computer  
Web Developer  
*Development of themes and plugins for CMSimple and Wordpress; and conception, development as well as maintenance of individual web applications for medium-sized companies.*

01/2009 – 03/2014, 10/2014 – 04/2015, Sinzig, GER

Fraunhofer FKIE  
Student Employee  
*Introduction to C++ and 3D modeling using Blender; development of an interactive web application based on PHP and JavaScript for complex database queries using SQL; plugin development for Piwik; and data visualization using d3.js.*  
Advisor: Dr. Carsten Winkelholz, Francois Kruger

10/2009, 05/2011 – 07/2011, 03/2012, 08/2012 – 09/2012, Wachtberg, GER

## AWARDS

Accenture Future Technology Leaders Program 2015  
Hans Hermann-Voss Scholarship 2015  
Germany Scholarship 2014 – today  
RWTH Aachen University Dean's List 2012, 2013, 2014  
careerloft.de Scholarship 2012 – today  
e-fellows.net Scholarship 2011 – today  
German Physical Society Book Prize 2011  
German Junior Academy 2005

## COURSEWORK\*

Computer Vision, Computer Vision 2, Machine Learning, Data Mining Algorithms, Statistical Techniques in Robotics, Probabilistic Graphical Models, Numerical Analysis, Numerical Analysis 2, Complexity Theory

## MOOCS

Linear and Integer Programming, Social Network Analysis, Game Theory, Cryptography, Introduction to Finance, Introduction to Operations Management

## PROJECTS\*

SEEDS Revised and Supersamples Revisited  
*Efficient implementation of SEEDS supersamples bundled together with recent supersample algorithms including an extended version of the Berkeley Segmentation Benchmark for evaluation.*

davidstutz.de/projects/supersamplesseeds/

Bootstrap Multiselect and Strength Meter  
*Twitter Bootstrap plugins for user-friendly select elements and password inputs.*

davidstutz.de/projects/twitter-bootstrap/

CMSimple News, Pictures and YouTube  
*CMSimple plugins for blogging and news articles, image galleries and sliders as well as YouTube video galleries.*  
davidstutz.de/projects/cmsimple/

Kohana Red, Green, Blue, Yellow and Gaps  
*Kohana plugins for authentication, access control and form generation and validation.*

davidstutz.de/projects/kohana/

## SKILLS

C/C++ (Boost, OpenCV, Point Cloud Library), MatLab, PHP, SQL, JavaScript (jQuery, d3.js), HTML, CSS/LESS, LaTeX (TikZ), Maple, Git, Subversion, Mercurial

\* Bachelor thesis and additional source code available at [github.com/davidstutz](https://github.com/davidstutz).  
Documents proving the above claims are given upon request.