

# I AM OPENSOURCE FAN

STUDYING COMPUTER SCIENCE AND MATH

## DAVID STUTZ

RWTH STUDENT AND GEORGIA TECH ALUMNI

COMPUTER VISION RESEARCH SCIENTIST

WEB DEVELOPER

## 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

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github.com/davidstutz

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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: Superpixel 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 superpixel 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 2015 – today

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 Price 2011

German Junior Academy 2005

## COURSEWORK\*

Computer Vision 1 & 2, Machine Learning, Data Mining Algorithms 1 & 2, Statistical Techniques in Robotics, Probabilistic Graphical Models, Numerical Analysis 1 & 2, Convex Optimization, Mathematical Image Processing, Complexity Theory

## MOOCS

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

## PROJECTS\*

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

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

CMSimple News, Pictures and YouTube  
*CMSimple plugins for blogging and news articles, image galleries and sliders as well as YouTube video galleries.*

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

## SKILLS

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