

## 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

10/2011 – today, Aachen, GER

RWTH Aachen University  
Student Research Assistant

05/2015 – today, Aachen, GER

## CONTACT

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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.

## EDUCATION

RWTH Aachen University

M.Sc. in Computer Science (expected 2016, 4.0 GPA)

B.Sc. in Computer Science (with distinction, 4.0 GPA)

*Minor: Mathematics*

*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, Computer Vision

*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 in 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 content management systems such as CMSimple and Wordpress. Conception, Prototyping and Development 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; plugin development for Piwik; and data visualization using d3.js.*

*Advisor: Dr. Carsten Winkelholz*

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

## AWARDS

Hans Hermann-Voss Scholarship 2015

Germany Scholarship 2014 – today

RWTH Aachen Dean's List 2012, 2013, 2014

careerloft.de Scholarship 2012 – today

e-fellows.net Scholarship 2011 – today

Germany Physical Society Book Price 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 Superpixels Revisited

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

davidstutz.de/projects/superpixelsseeds/

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/

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