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

Fyusion Inc.
Research Scientist

RWTH Aachen University
Student Research Assistant

CONTACT

davidstutz@web.de

davidstutz.de
github.com/davidstutz

I am passionate about computer science – its versability, 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 todays world.

EDUCATION

RWTH Aachen University
M.Sc. in Computer Science (expected 03/2017, average grade: 1.0)
B.Sc. in Computer Science (with distinction, overall grade: 1.1)
Thesis: Superpixel Segmentation using Depth Information.[*]
Advisor: Prof. Dr. Bastian Leibe

10/2011 – today, Aachen, GER

Georgia Institute of Technology
Graduate Exchange Student (GPA: 4.0)

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

Fyusion Inc.
Research Scientist, Computer Vision

05/2015 – today, San Francisco, CA

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 based on SQL; 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

[*] Bachelor thesis and additional source code available at github.com/davidstutz.
Grades are given in their original grading system.
Documents proving the above claims are given upon request.
Last updated: November 25, 2015.

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

PUBLICATIONS

Stutz, D.: Superpixel Segmentation: An Evaluation. In: German Conference on Pattern Recognition (GCPR), 2015.

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

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-friendtly 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++ (OpenCV), MatLab, PHP, SQL, JavaScript (jQuery, d3.js), HTML/CSS, (Twitter Bootstrap), LaTeX (PGFPlots, TikZ), Git, Mercurial