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 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 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, 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 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. Documents proving the above claims are given upon request.

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
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-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, Point Cloud Library), MatLab, PHP, SQL, JavaScript (jQuery, d3.js), HTML, CSS/LESS, LaTeX, Git, Subversion, Mercurial