I AM OPENSOURCE FAN
STUDYING COMPUTER SCIENCE AND MATH
DAVID STUTZ
RWTH STUDENT AND GEORGIA TECH ALUMNI
COMPUTER VISION RESEARCH SCIENTIST

CURRENTLY

RWTH Aachen University
M.Sc. in Computer Science

MOBIS Parts Europe N.V.
Front Camera Intern

CONTACT

davidstutz@web.de

davidstutz.de
github.com/davidstutz
xing.to/DavidStutz
de.linkedin.com/in/davidstutz92

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 2017, GPA: 1.0)
B.Sc. in Computer Science (with distinction, GPA: 1.1)
Coursework: Computer Vision, Machine Learning, Data Mining, Numerical Analysis, Convex Optimization, Mathematical Image processing, Data Science, Complexity Theory
MOOCs: Linear and Integer Programming, Social Network Analysis, Game Theory, Cryptography, Introduction to Finance, Introduction to Operations Management
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)
Coursework: Statistical Techniques in Robotics, Probabilistic Graphical Models, Special Problems in Computer Vision
Advisor: Prof. Irfan Essa, Ph.D.

01/2015 – 05/2015, Atlanta, GA

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

PROJECTS on github.com/davidstutz

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

Efficient Graph-Based Hierarchical Video Segmentation
Implementation of graph-based hierarchical image and video segmentation.

iPiano: Non-Convex and Non-Smooth Optimization
Implementation of iPiano for non-convex and non-smooth optimization by combining forward-backward splitting with an inertial force.

Various Twitter Bootstrap, Wordpress, Kohana and CMSimple Plugins

Grades are given in their original grading system.
Documents proving the above claims are given upon request.
Last updated: April 13, 2016.

PUBLICATIONS

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

EXPERIENCE

MOBIS Parts Europe N.V.
Front Camera Intern
Skills: C++ (Caffe, OpenCV, Boost, CMake), Python (NumPy, Jupyter)

04/2016 – today, Frankfurt (a.M.), GER

Computer Vision Group, RWTH Aachen University
Student Research Assistant, Computer Vision
Evaluation and comparison of state-of-the-art superpixel algorithms.
Skills: C++ (OpenCV, Boost, CMake), MatLab, LaTeX (TikZ, PGFPlots), Mercurial

05/2015 – 03/2016, Aachen, GER

Fyusion Inc.
Research Scientist, Computer Vision
Skills: C++ (OpenCV, Boost, CMake), MatLab, LaTeX, Git 05/2015 – 03/2016, 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.
Skills: C++ (OpenCV, Boost, CMake), MatLab, Mercurial

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.
Skills: PHP (Kohana, Wordpress, xtCommerce, CMSimple), JavaScript (jQuery), SQL (MySQL), HTML/CSS (Twitter Bootstrap), Mercurial

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.
Skills: C++, PHP (Kohana, Piwik), JavaScript (jQuery, d3.js), SQL (MySQL), HTML/CSS

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