I AM
RWTH STUDENT AND
GEORGIA TECH ALUMNI
STUDYING COMPUTER SCIENCE AND MATH

DAVID STUTZ
COMPUTER VISION RESEARCH SCIENTIST

CURRENTLY

RWTH Aachen University
M.Sc. in Computer Science

MOBIS Parts Europe N.V.
Front Camera Intern

CONTACT

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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)
Specialization: Computer Vision, Machine Learning, Image Processing, Data Mining
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)
Specialization: Computer Vision, Machine Learning, Robotics
Advisor: Prof. Irfan Essa, Ph.D.
01/2015 – 05/2015, Atlanta, GA

PUBLICATIONS

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

AWARDS

Accenture Future Technology Leaders 2015 – today
Development program including workshops, networking events and individual mentoring awarded to excellent STEM students.
Hans Hermann-Voss Scholarship 2015
Study abroad scholarship worth €1800 awarded for excellent grades.
Germany Scholarship 2014 – today
Scholarship worth €3600/year awarded for excellent grades.
RWTH Aachen University Dean's List 2012, 2013, 2014
Awarded to the top 5% in each discipline.
careerloft.de Online Scholarship 2012 – today
e-fellows.net Online Scholarship 2011 – today
German Physical Society Book Price 2011
Awarded for outstanding merits in school physics.
German Junior Academy 2005
Program to support young talents.

PROJECTS

SEEDS Revised and Superpixels Revisited
Efficient implementation of SEEDS superpixels bundled with recent superpixel algorithms including an extended benchmark.

Graph-Based Hierarchical Video Segmentation
Efficient 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

EXPERIENCE

Microsoft Corporation
Software Engineering Intern
07/2016 – 09/2016, Dublin, IRL

MOBIS Parts Europe N.V.
Front Camera Intern
04/2016 – 06/2016, 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.
05/2015 – 03/2016, Aachen, GER

Fyusion Inc.
Research Scientist, Computer Vision
05/2015 – 03/2016, San Francisco, CA

Computational Perception Lab, Georgia Institute of Technology
Visiting Graduate Student
Video segmentation using intrinsic characteristics and semantic segmentation of weakly-labeled video.
01/2015 – 05/2015, Atlanta, GA

MATHCCES, RWTH Aachen University
Tutor, *"Fundamentals of Mathematics II", "Calculus for Computer Science"*
Presentation of exercises to a group of 30 to 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, Wordpress and xtCommerce; and design, implementation 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.
10/2009, 05/2011 – 07/2011, 03/2012, 08/2012 – 09/2012, Wachtberg, GER

MOOCS

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

SKILLS

C/C++ (OpenCV), Python (OpenCV, Caffe, Numpy), MatLab, PHP, JavaScript (jQuery, d3.js), HTML/CSS (Twitter Bootstrap), SQL, LaTeX (PGFPlots, TikZ), Git, Mercurial

Grades are given in their original grading system.
Documents proving the above claims are given upon request.
Work-related specifics may have been omitted depending on contract details.
Last updated: June 16, 2016.