David Stutz

davidstutz@web.de, davidstutz.de

Education

MPI for Informatics & Saarland University
Ph.D. Computer Science
Advisors: Bernt Schiele, Matthias Hein
10/2017 – 2020 (expected), Saarbrücken, GER

RWTH Aachen
M.Sc. Computer Science, Minor in Mathematics
GPA: 1.0/1.0, Graduated with Distinction
Thesis: "Shape Completion from Bounding Boxes with CAD Shape Priors"
Advisors: Andreas Geiger, Bastian Leibe
10/2014 – 09/2017, Aachen, GER

Georgia Institute of Technology
Graduate Exchange Student
GPA: 4.0/4.0
Advisor: Irfan Essa
01/2015 – 05/2015, Atlanta, USA

RWTH Aachen
B.Sc. Computer Science, Minor in Mathematics
GPA: 1.1/1.0, Graduated with Distinction
Thesis: "Superpixel Segmentation using Depth Information"
Advisors: Alexander Hermans, Bastian Leibe
10/2011 – 09/2014, Aachen, GER

Gymnasium Calvarienberg
Abitur (A-Levels)
GPA: 1.2/1.0
Majors: Physics, English, Geography
08/2002 – 03/2011, Ahrweiler, GER

Summer Schools

Universidad Autónoma de Madrid
Machine Learning Summer School
09/2018, Madrid, ESP

MPI for Intelligent Systems & ETH Zürich
Pre-Doc Summer School on Learning Systems
07/2017, Zürich, CHE

Scholarships & Awards

STEM Award IT 2018
Springorum-Denkmünze 2018
RWTH Aachen Dean's List 2012 – 2017
Germany Scholarship 2014 – 2017
Accenture Future Technology Leaders 2015 – 2017
Hans Hermann-Voss Scholarship 2015
careerloft.de Scholarship 2012 – today
e-fellows.net Scholarship 2011 – today
German Physical Society Book Price 2011

Projects

Blog `davidstutz.de`
More than 750 unique visitors per day.
GitHub `github.com/davidstutz`
More than 90 repositories, 3.5k stars and 1.6k forks.

Publications

[1] D. Stutz, M. Hein, B. Schiele. *Disentangling Adversarial Robustness and Generalization*. arXiv.org, abs/1812.00740, 2018.
[2] D. Stutz, A. Geiger. *Learning 3D Shape Completion under Weak Supervision*. IJCV, 2018.
[3] D. Stutz, A. Geiger. *Learning 3D Shape Completion from Laser Scan Data with Weak Supervision*. CVPR, 2018.
[4] D. Stutz, A. Hermans, B. Leibe. *Superpixels: An Evaluation of the State-of-the-Art*. CVIU, 2018.
[5] D. Stutz. *Superpixel Segmentation: An Evaluation*. GCPR, 2015.

Research Experience

MPI for Informatics, Research Assistant
Research regarding the relationship between adversarial robustness of deep neural networks and their generalization capabilities [1].
10/2017 – today, Saarbrücken, GER

MPI for Intelligent Systems, Student Research Assistant
Research on weakly-supervised shape completion of point clouds [2, 3]; implementation of KITTI's 3D object detection benchmark.
01/2017– 09/2017, Tübingen, GER

VCI, RWTH Aachen, Student Research Assistant
Research resulting in a comprehensive comparison of state-of-the-art superpixel algorithms [4, 5].
05/2015 – 03/2016, Aachen, GER

Teaching Experience

MATHCCES, RWTH Aachen, Tutor
Grading weekly assignments and the final exam as well as giving weekly tutorials for mathematics lectures.
10/2013 – 01/2014, 04/2014 – 09/2014, Aachen, GER

Industry Experience

Microsoft, Software Engineering Intern
Development of features for "Centralized Deployment", allowing to easily distribute Microsoft Office add-ins within organizations.
07/2016 – 09/2016, Dublin, IRL

Hyundai MOBIS, Research Engineering Intern
Development of an experimental prototype to evaluate deep neural networks for pedestrian detection and tracking.
04/2016 – 06/2016, Frankfurt am Main, GER

Fyusion, Research Scientist
Development of experimental prototypes for line segment detection/tracking, keypoint tracking, statistical clustering and pedestrian detection/tracking.
05/2015 – 03/2016, Aachen, GER (office in San Francisco, USA)

RS Computer, Student Employee
Development of web applications.
01/2009 – 03/2014, 10/2014 – 04/2015, 10/2016 – 12/2016, Sinzig, GER

Fraunhofer FKIE, Student Employee
Development of web analytics and data visualization tools.
05/2011 – 07/2011, 03/2012, 08/2012 – 09/2012, Wachtberg, GER

Last updated: February 18, 2019.
Grades given in their original grading system.