

I AM RWTH AND GEORGIA TECH ALUMNI
PHD STUDENT AT MPI INFORMATICS
DAVID STUTZ
COMPUTER VISION AND DEEP LEARNING

EDUCATION

MPI for Informatics & Saarland University

Ph.D. Computer Science (expected 2020)

Advisor: Prof. Bernt Schiele

Extracurricular: *Interreligious Dialogue, Intercultural Competence, Good Scientific Practice and Communication*

10/2017 – today, Saarbrücken, GER

Universidad Autónoma de Madrid

Machine Learning Summer School

08/2018, Madrid, ESP

RWTH Aachen University

M.Sc. Computer Science (Minor in Mathematics)

Graduated with Distinction (GPA 1.0 / 1.0)

Thesis: *"Shape Completion from Bounding Boxes with CAD Shape Priors"*

Advisors: Prof. Andreas Geiger, Prof. Bastian Leibe

B.Sc. Computer Science (Minor in Mathematics)

Graduated with Distinction (GPA 1.1 / 1.0)

Thesis: *"Superpixel Segmentation using Depth Information"*

Advisors: Alexander Hermans, Prof. Bastian Leibe

Extracurricular: *Teaching Practices, Personality and Motivation, Time Management, Effective Reading*

10/2011 – 09/2017, Aachen, GER

MPI for Intelligent Systems & ETH Zürich

Pre-Doc Summer School on Learning Systems

07/2017, Zürich, CHE

Georgia Institute of Technology

Graduate Exchange Student (GPA 4.0 / 4.0)

Advisor: Prof. Irfan Essa

01/2015 – 05/2015, Atlanta, USA

Coursera, edX, Kadenze

11 courses in computer science and economics.

AWARDS

STEM Award IT 2018

Springorum-Denk Münze 2018

RWTH Aachen University Dean's List 2012 – 2017

Germany Scholarship 2014 – 2017

Accenture Future Technology Leaders 2015 – 2017

Hans Hermann-Voss Scholarship 2015

careerloft.de Online Scholarship 2012 – today

e-fellows.net Online Scholarship 2011 – today

German Physical Society Book Price 2011

PUBLICATIONS

[1] D. Stutz, A. Geiger. *Learning 3D Shape Completion under Weak Supervision*. ArXiv, 2018 (accepted at IJCV).

[2] D. Stutz, A. Geiger. *Learning 3D Shape Completion from Laser Scan Data with Weak Supervision*. CVPR, 2018.

[3] D. Stutz, A. Hermans, B. Leibe. *Superpixels: An Evaluation of the State-of-the-Art*. CVIU, 2018.

[4] D. Stutz. *Superpixel Segmentation: An Evaluation*. GCPR, 2015.

Google Scholar: 116 citations, h-index 5

Can we make deep learning reliable? By understanding when and why deep learning fails as well as making it more robust and safe, I want to make trustworthy deep learning possible.

Saarbrücken, GER

davidstutz@web.de – davidstutz.de

EXPERIENCE

MPI for Informatics, Research Assistant

Research regarding the robustness of deep neural networks in adversarial settings; IT administrator.

10/2017 – today, Saarbrücken, GER

Freelancer

Web development and data science consulting.

10/2016 – today, Saarbrücken, GER

MPI for Intelligent Systems, Student Research Assistant

Research on weakly-supervised shape completion of point clouds [1, 2]; implementation of KITTI's 3D object detection benchmark.

01/2017 – 09/2017, Tübingen, GER

Microsoft Ireland, Software Engineering Intern

Design and implementation of "Centralized Deployment" features allowing to easily distribute Office add-ins within organizations.

07/2016 – 09/2016, Dublin, IRL

Hyundai MOBIS, Front Camera Intern

Development of an experimental prototype to evaluate deep learning techniques for pedestrian detection.

04/2016 – 06/2016, Frankfurt am Main, GER

VCI, RWTH Aachen University, Student Research Assistant

Research resulting in a comprehensive comparison of state-of-the-art superpixel algorithms [3, 4].

05/2015 – 03/2016, Aachen, GER

Fusion, Research Scientist

Development of experimental prototypes tackling various computer vision problems including line segment and keypoint tracking, statistical clustering and pedestrian detection and tracking.

05/2015 – 03/2016, Aachen, GER (office in San Francisco, USA)

MATHCCES, RWTH Aachen University, Tutor

Grading weekly assignments and the final exam as well as giving weekly tutorials for "Calculus" and "Mathematical Foundations II".

10/2013 – 01/2014, 04/2014 – 09/2014, Aachen, GER

RS Computer, Web Developer

Plugin/theme development for content management and e-commerce systems; design and implementation of custom web applications.

01/2009 – 03/2014, 10/2014 – 04/2015, 10/2016 – 12/2016, Sinzig, GER

Fraunhofer FKIE, Student Employee

Implementation of web analytics and data visualization tools.

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

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.

SKILLS

Python (PyTorch, TensorFlow, Caffe), C/C++ (CUDA, OpenCV, Boost), Lua (Torch), MatLab, \LaTeX (PGFPlots, TikZ), PHP (Kohana, Wordpress), JavaScript (jQuery), SQL, HTML/CSS/LESS

Last updated: October 13, 2018.

Grades given in their original grading system.

References upon request.