RESEARCH STATEMENT

Broadly, I am interested in trustworthy and reliable machine/deep learning and (3D) computer vision. My academic research addresses robustness against adversarial examples [2, 3, 6] and bit errors in quantized models [3, 4]. Previously, I worked on 3D reconstruction [7, 8] and superpixel segmentation [9]. In industry, I worked on uncertainty estimation [1], image segmentation, as well as line segment/keypoint/pedestrian detection and tracking.

RELEVANT WORK EXPERIENCE

MPI for Informatics, Research Assistant
10/2017 – today, Saarbrücken, GER

DeepMind, Research Scientist Intern
Uncertainty estimation for medical diagnosis [1].
04/2021 – 09/2021, London, UK (remote)

MPI for Intelligent Systems, Research Assistant
Deep learning for weakly-supervised 3D reconstruction [7] [8].
01/2017 – 09/2017, Tübingen, GER

Microsoft, Software Engineering Intern
Features for “centralized deployment” of Office add-ins.
07/2016 – 09/2016, San Francisco, USA

Hyundai MOBIS, Research Engineering Intern
Evaluation of deep learning for pedestrian detection/tracking.
04/2016 – 06/2016, Frankfurt am Main, GER

Fyusion, Research Scientist
Prototypes for line segment/keypoint tracking.
05/2015 – 03/2016, San Francisco, USA (remote)

VCI, RWTH Aachen University, Research Assistant
Benchmark for state-of-the-art superpixel algorithms [9].
05/2015 – 03/2016, Aachen, GER

SELECTED AWARDS & HONORS

CVPR AML-CV Workshop Outstanding Paper 2021
ICML/CVPR/NeurIPS Top Reviewer 2020, 2021
Heidelberg Laureate Forum 2019
Qualcomm Innovation Fellowship 2019
STEM Award IT 2018
Springorum-Denkmünze 2018
Hans Hermann-Voss Scholarship 2015
Germany Scholarship 2014 – 2017
RWTH Aachen Dean’s List 2012 – 2017

Last updated: November 4, 2021.