

SHERWIN BAHMANI

sherwinbahmani@gmail.com ♦ Research Interests: Computer Vision, Machine Learning

EDUCATION

- M.Sc. Computational Engineering**, Technical University of Darmstadt Apr 2018 - Sep 2021
- Graduated with honors
 - Focus: Computer Vision and Machine Learning
- B.Sc. Mechanical and Process Engineering**, Technical University of Darmstadt Oct 2014 - Apr 2018
- Focus: Mechatronics

WORK EXPERIENCE

- Research Intern: ETH Zurich** Jan 2022 - Jun 2022
- Computer Vision Lab: Research in the field of video generation
 - Advisors: Ph.D. Hao Tang, Ph.D. Radu Timofte, Prof. Luc Van Gool
- Research Intern: École Polytechnique Fédérale de Lausanne (EPFL)** Oct 2021 - Nov 2021
- Visual Intelligence for Transportation Lab: Causal motion forecasting for out-of-distribution robustness
 - Advisors: M.Sc. Yuejiang Liu, Prof. Alexandre Alahi
- Student Research Assistant: Technical University of Darmstadt** Apr 2021 - Oct 2021
- Visual Inference Lab: Research in the field of video frame interpolation and motion estimation
 - Advisors: Ph.D. Simone Schaub-Meyer, Prof. Stefan Roth
- Master Thesis: Mercedes-Benz AG / Technical University of Darmstadt** Sep 2020 - Mar 2021
- Image Understanding Group: Multi-scale value iteration networks for panoptic segmentation
 - Advisors: M.Sc. Jonas Uhrig, Ph.D. Marius Cordts, Prof. Stefan Roth
- Working Student: Mercedes-Benz AG** Mar 2020 - Sep 2020
- Image Understanding Group: Research in the field of instance and panoptic segmentation
 - Advisors: M.Sc. Jonas Uhrig, Ph.D. Uwe Franke
- Internship: Daimler AG** Aug 2019 - Feb 2020
- Electric Powertrain Development: Software engineering for automated hybrid powertrain designs
- Bachelor Thesis: Fraunhofer LBF** Nov 2017 - Apr 2018
- Reliability of Electric Vehicles: Research in battery aging forecasting using nonlinear regression
- Internship: Dr. Ing. h.c. F. Porsche AG** Apr 2017 - Sep 2017
- Digital Powertrain Development: Software engineering for damage calculation in electric powertrains

UNIVERSITY PROJECTS

- Project Deep Learning for Computer Vision: Visual Inference Lab**
Research in the field of domain generalization for semantic segmentation (Advisors: M.Sc. Nikita Araslanov, Prof. Stefan Roth)
- Deep Learning for Medical Imaging: Interactive Graphics Systems Group**
Development of a tool for semantic segmentation of skin cancer (Advisor: Ph.D. Anirban Mukhopadhyay)
- Deep Learning Architectures and Methods: Artificial Intelligence and Machine Learning Lab**
Deep Learning for super-resolution of audio data (Advisors: M.Sc. Patrick Schramowski, Prof. Kristian Kersting)
- Deep Learning for Natural Language Processing: Ubiquitous Knowledge Processing Lab**
Ranking of clarifying questions for conversational agents using BERT (Advisors: Ph.D. Ivan Habernal, Ph.D. Mohsen Mesgar)
- Deep Generative Models: Interactive Graphics Systems Group**
Learning a generative model from a single natural image using SinGAN (Advisor: Ph.D. Anirban Mukhopadhyay)
- Machine Learning for Automated Driving: Institute for Automotive Engineering**
Automated scenario generation from environment perception sensors (Advisors: Ph.D. Martin Holder, Prof. Hermann Winner)