Simon Romanski

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- **Research, teaching and work experience in autonomous driving**
- **Good knowledge of Python and C++ and deep learning frameworks (Tensorflow, Keras)**
- **Extensive coursework in systems optimization and computer vision**

Work Experience

Nov 2018 – today	**Stanford University, Autonomous Systems Lab, Stanford – Visiting Student Researcher**
	Infusing safety to human-robot interaction with CVAEs, Hamilton-Jacobi reachability and MPC
Sep 2017 – Feb 2018	**EPFL, Visual Intelligence for Transportation lab (VITA), Lausanne – Graduate Researcher**
	Predicting pedestrian movement using recurrent neural networks and human pose information
Mar 2017 – Aug 2017	**KIT, Institute for Measurement and Control (MRT), Karlsruhe – Research Assistant**
	Work on segmentation of point clouds and dynamic grid maps for autonomous driving
Jun 2015 – Mar 2016	**Mercedes-Benz Research & Development, Sunnyvale – Internship and Bachelor Thesis**
	Realization of an interacting multiple model approach for perception in autonomous driving
Feb 2014 – Jul 2014	**Siemens AG, Karlsruhe – Student Employee**
	Virtualization of industry automation software (subsequently becoming a product)
Sep 2011 – Oct 2011	**IES Bahr, Braunschweig – Student Employee**
	Responsible for software development for testing LED-light-systems for crash-test cameras

Education

Nov 2018 – Apr 2019	**Stanford University**, Visiting Student – Focus: Autonomous Systems / Machine Learning
Sep 2017 – Feb 2018	**Ecole Polytechnique Federale Lausanne**, Exchange – Focus: Machine Learning / Bio-Tech
Mar 2016 – today	**Karlsruhe Institute of Technology, M.Sc.** – Electrical Engineering / Computer Science
Sep 2015 – Dec 2015	**Stanford University,** Continuing Education – Business 131: The Creative Entrepreneur
Oct 2011 – Mar 2016	**Karlsruhe Institute of Technology, B.Sc.** – Electrical Engineering / Computer Science

Scholarships/Awards

Nov 2018 – Apr 2019	**DAAD Promos** – Scholarship for outstanding master thesis abroad
Feb 2012 – Nov 2013	**Studienstiftung des deutschen Volkes** (German National Academic Foundation)
Mar 2005 – Mar 2010	**Multiple awards, e.g., Jugend forscht, Mathematical Olympiad** (3rd prize statewide of 8000)

Publications/Teaching

May 2018	**Forecasting Human Fine-grained Behaviors,** Simon Romanski, George Adaimi, Alexandre Alahi Swiss Transportation Research Conference (STRC)
Apr 2018	**EPFL – Data and AI for Transportation,** Guest lecture on motion control for self-driving cars

Extracurricular Activities

Oct 2014 – May 2015	**KITcar** - Work on self-driving car for the competition "Carolo-Cup" (3rd prize)
Aug 2013	**Volunteer,** teaching and building a school – Singida, Tanzania
Oct 2011 – Jul 2014	**talKIT – das Technologieforum** – Speakers team and sponsoring team
Jan 2010 – Jan 2011	**Schüler-Ingenieur-Akdemie** (Engineering College for High School Students)

Skills

Language	German (native), English (fluent), Spanish (basic), French (basic)
Computer Skills	Python, C++, Matlab, C#, Visual Basic, Delphi / Deep Learning Frameworks: Tensorflow, Keras
Further Interests	Windsurfing, Skiing, Hockey, Photography, Piano