ETH Zurich
Chair of Systems Design
WEV G 205
Weinbergstrasse 56/58
8092 Zurich

cgote@ethz.ch
+41 44 632 82 46

www.linkedin.com/in/cgote
www.reasearchgate.net/profile/Christoph_Gote

Christoph Gote

*14.08.1992
Curriculum Vitæ

PROFILE

▶ Passion for analysing and controlling complex systems: experience modelling human driver behaviour, economic networks as well as social and socio-technical systems; built cognitive models using network theory, optimisation, neural networks and game theory

▶ Communication and presentation skills: continuously taught groups of students throughout my studies in engineering; led group researching and writing conference paper, presented results on an international level

▶ European language skills: fluent in German and English, attended several American Schools, studied in London; working proficiency in Dutch, lived in Belgium for four and the Netherlands for one year

EDUCATION

since 2017	**ETH Zurich – Swiss Federal Institute of Technology**	**Zurich, Switzerland**
	PhD Candidate, Chair of Systems Design, D-MTEC	Prof. Dr. Dr. Frank Schweitzer
2016–2017	**Imperial College Business School, London**	**London, United Kingdom**
	MSc. Investment & Wealth Management	
	Master Thesis: Credit Card Fraud Detection Using Computational Intelligence: Classification in Highly Unbalanced Datasets	
2013–2016	**Karlsruhe Institute of Technology**	**Karlsruhe, Germany**
	MSc. Electrical Engineering and Information Technology	
	Specialisation: Systems and Control	
	Master Thesis: Development and Comparison of Adaptation Functions for Driver Assistant Systems in Takeover Scenarios using Differential Games	
2014–2015	**TU Delft – Delft University of Technology**	**Delft, the Netherlands**
	Year abroad, Master of Systems and Control	
2010–2013	**Karlsruhe Institute of Technology**	**Karlsruhe, Germany**
	BSc. Electrical Engineering and Information Technology	
	Bachelor Thesis: Development of a Concept for Determining Driver-Specific Reference-Trajectories Based on Road Data	

RESEARCH EXPERIENCE

2015	**TU Delft – Delft University of Technology**	**Delft, the Netherlands**
	Research Intern (4-month internship)	Prof. Dr. David Abbink

▶ Evaluated data from driving study to build individual driver assistant system models for specific drivers; designed Matlab/Simulink model capturing human corner cutting behaviour

▶ Performed 400+ simulations optimising model structure and parameterisation; ensured real-time capability by transferring parts of the code to C++; model capable of reproducing behaviour of 80% of recorded drivers

▶ Established a collaboration between research groups at TU Delft and Karlsruhe Institute of Technology; joint goal of building a driver assistant system combining distinct benefits of human and machine

TEACHING EXPERIENCE

▶ Designed and delivered courses, lectured total of 12 courses with 20+ students each

▶ Recommended changes in course material and course structure; created new and modified existing course materials

▶ Mentored 6 students during preparation for last try to pass exam; successfully achieved a pass rate of 100%

2013–2016	**Optimisation of Dynamic Systems**	Prof. Dr. Sören Hohmann
2014	**Advanced Control Techniques Laboratory**	Prof. Dr. Sören Hohmann
2013–2014	**System Dynamics and Control Engineering**	Prof. Dr. Sören Hohmann
2011–2013	**Digital Technology**	Prof. Dr. Jürgen Becker

PUBLICATIONS

2017	**Cooperative Dynamic Vehicle Control Allocation using Time-Variant Differential Games**
	Julian Ludwig, Christoph Gote and Sören Hohmann
	IEEE International Conference on Systems, Man and Cybernetics 2017, Banff, Canada
2014	**Driver Characterization & Driver Specific Trajectory Planning: an Inverse Optimal Control Approach**
	Christoph Gote, Michael Flad and Sören Hohmann
	IEEE International Conference on Systems, Man and Cybernetics 2014, San Diego, CA, USA

ADDITIONAL SKILLS AND ACHIEVEMENTS

IT Skills

Advanced	Matlab, LaTeX, Microsoft Office, iWork, Microsoft Windows, Mac OS X
Intermediate	C++, C#, Delphi, Python, HTML, Ubuntu
Basic	R, Swift, Java, SQL, VHDL, UML, VBA, Autodesk Inventor

Languages

German (native), English (fluent), Dutch (intermediate), Italian (basic), Latin

Personal Interests

Piano, Drums and Percussion (played 7 years in symphony orchestra and music societies, led percussion group)

Making and Programming (scratch-built an Ubuntu based home server; working on a 3D carving machine)