## **Christoph Gote**

Curriculum Vitæ

EDUCATION	I		
2017–2021	<b>Doctor of Sciences ETH Zurich</b> Chair of Systems Design, Department of Management, Technology, and		<b>Zurich, Switzerland</b> , and Economics, ETH Zurich
	Supervisor: Doctoral Thesis:	Prof. Dr. Dr. Frank Schweitzer Quantifying Individual and Collective Aspects o opment Teams	f Performance in Software Devel-
2016–2017	7 MSc Investment & Wealth Management Imperial College Business School		London, United Kingdom
	Master Thesis:	Credit Card Fraud Detection Using Computation Highly Unbalanced Datasets	nal Intelligence: Classification in
2013–2016	MSc Electrical Engineering and Information Technology Karlsruhe Institute of Technology  Karlsruhe Institute of Technology		
	Specialisation: Master Thesis:	Systems and Control Development and Comparison of Adaptation For tems in Takeover Scenarios using Differential G	
2014–2015	Year abroad, Master of Systems and Control  Delft, the Netherlands  Delft University of Technology		
2010–2013	BSc Electrical Engineering and Information Technology Karlsruhe Institute of Technology Karlsruhe Institute of Technology		
	Bachelor Thesis:	Development of a Concept for Determining Drive Based on Road Data	er-Specific Reference-Trajectories
WORK EXPERIENCE			
since 2022	Postdoctoral Researcher, Data Analytics Group, University of Zurich		
since 2021	Postdoctoral Researcher, Chair of Systems Design, ETH Zurich		
since 2019	OSS Project Developer and Maintainer		
	since 2021 since 2019	<pre>gambit — github.com/gotec/gambit git2net — git2net.readthedocs.io</pre>	
since 2019	Teaching Assistant, ETH Zurich		
	2020–2022 2019–2021	System Dynamics and Complexity, <i>Prof. Dr. Dr. I</i> Complex Networks, <i>Prof. Dr. Dr. Frank Schweitz</i>	
since 2018	System Administrator, Chair of Systems Design, ETH Zurich		
2015	Research Intern, Delft Haptics Lab, Delft University of Technology		
	Supervisor: Project Title:	Prof. Dr. David Abbink Driver Modelling for Adaptive Steering Prediction	on
2011-2016	Teaching Assistant, Karlsruhe Institute of Technology		
	2013–2016 2014 2013–2014 2011–2013	Optimisation of Dynamic Systems, <i>Prof. Dr. Söre</i> Advanced Control Techniques Laboratory, <i>Prof.</i> System Dynamics and Control Engineering, <i>Pro</i> Digital Technology, <i>Prof. Dr. Jürgen Becker</i>	Dr. Sören Hohmann

## **PUBLICATIONS**

- 2022 <u>Gote, C.</u>, V. Perri, and I. Scholtes, Predicting Influential Higher-Order Patterns in Temporal Network Data. 2022 IEEE/ACM 44th International Conference on Advances in Social Networks Analysis and Mining (ASONAM).
- 2022 Russo, G., <u>C. Gote</u>, L. Brandenberger, S. Schlosser, and F. Schweitzer, Disentangling Active and Passive Cosponsorship in the U.S. Congress. *arXiv preprint arXiv:2205.09674*.
- 2022 <u>Gote, C.</u>, P. Mavrodiev, F. Schweitzer, and I. Scholtes, Big Data = Big Insights? Operationalising Brooks' Law in a Massive GitHub Data Set. 2022 IEEE/ACM 44th International Conference on Software Engineering (ICSE).
- 2021 <u>Gote, C.</u> and C. Zingg, gambit An Open Source Name Disambiguation Tool for Version Control Systems. 2021 IEEE/ACM 18th International Conference on Mining Software Repositories (MSR), pp. 80-84.
- 2021 <u>Gote, C.,</u> I. Scholtes, and F. Schweitzer, Analysing Time-Stamped Co-Editing Networks in Software Development Teams using git2net. *Empirical Software Engineering*, 26, 75.
- Hackl, J., I. Scholtes, L. Petrović, V. Perri, L. Verginer, and <u>C. Gote</u>, Analysis and Visualisation of Time Series Data on Networks with Pathpy. *In Companion Proceedings of the Web Conference 2021 (WWW)*, pp. 530-532.
- 2020 <u>Gote, C.,</u> G. Casiraghi, F. Schweitzer, and I. Scholtes, Predicting Sequences of Traversed Nodes in Graphs using Network Models with Multiple Higher Orders. *arXiv preprint arXiv:2007.06662*.
- 2020 Nanumyan, V., <u>C. Gote</u>, and F. Schweitzer, Multilayer Network Approach to Modelling Authorship Influence on Citation Dynamics in Physics Journals. *Physical Review E*, 102(3), 032303.
- 2019 Gote, C., I. Scholtes, and F. Schweitzer, git2net Mining Time-Stamped Co-Editing Networks from Large git Repositories, 2019 IEEE/ACM 16th International Conference on Mining Software Repositories (MSR), pp. 433-444.
- 2017 Ludwig, J., <u>C. Gote</u>, M. Flad, and S. Hohmann, Cooperative Dynamic Vehicle Control Allocation using Time-Variant Differential Games. *2017 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, pp. 117-122.
- 2014 Gote, C., M. Flad, and S. Hohmann, Driver Characterisation & Driver Specific Trajectory Planning: An Inverse Optimal Control Approach. 2014 IEEE International Conference on Systems, Man, and Cybernetics (SMC), pp. 3014-3021.

## TALKS AND POSTERS

- Talk, Quantifying the Tradeoff Between Team Productivity and Resilience. *Conference on Complex Systems* (CCS) 2022, October 17-21, Palma de Mallorca, Spain.
- Talk, The Changing Nature of Social Hierarchies. *Conference on Complex Systems (CCS) 2022*, October 17-21, Palma de Mallorca, Spain.
- Talk, The Challenges and Opportunities of Using Big Data to Study Team Productivity. *Conference on Complex Systems (CCS) 2022*, October 17–21, Palma de Mallorca, Spain.
- Talk, Big Data = Big Insights? Operationalising Brooks' Law in a Massive GitHub Data Set. *International Conference on Software Engineering (ICSE) 2022*, May 10-13, hybrid (online and Pittsburgh, PA, USA).
- 2021 **Invited Talk**, MOGen A Multi-Order Model of Paths in Networks, *Genua RES Conference 2021*, July 14, online (originally Kirchheim bei München, Germany).
- **Talk**, gambit An Open Source Name Disambiguation Tool for Version Control Systems, *Mining Software Repositories (MSR) 2021*, May 17-19, online (originally Madrid, Spain).
- 2020 **Poster**, Analysing Time-Stamped Co-Editing Networks in Software Development Teams using git2net, *Network Science Society Conference (NetSci) 2020*, September 17-25, online (originally Rome, Italy).
- 2020 **Poster**, A Generative Multi-Order Model to Predict Variable-Length Paths in Networks, *Network Science Society Conference (NetSci) 2020*, September 17-25, online (originally Rome, Italy).

- 2020 **Poster**, AIC Based Model Selection for Generative Multi-Order Models of Paths in Networks, *Network Science Society Conference (NetSci) 2020*, September 17-25, online (originally Rome, Italy).
- 2020 **Talk**, A Generative Multi-Order Model to Predict Variable-Length Paths in Networks, *Network Science Society Conference (NetSci) 2020 Machine Learning In Network Science Satellite*, September 17-25, online (originally Rome, Italy).
- 2019 **Talk**, git2net An Open Source Package to Mine Time-Stamped Collaboration Networks from Large git Repositories, *INFORMATIK 2019 Best of Data Science made in D/A/CH*, September 23-26, Kassel, Germany.
- 2019 **Talk**, Model selection for coupled growth of multi-layer networks, *Network Science Society Conference* (*NetSci*) 2019, May 27-31, Burlington, VT, USA.
- 2019 **Poster**, git2net An Open Source Package to Mine Time-Stamped Collaboration Networks from Large git Repositories, *Network Science Society Conference (NetSci) 2019*, May 27-31, Burlington, Vermont, USA.
- 2019 **Invited Talk**, Variable-order network models based on path data, *Network Science Society Conference* (*NetSci*) 2019 *Higher-Order Models in Network Science*, May 27-31, Burlington, Vermont, USA.
- **Talk**, git2net An Open Source Package to Mine Time-Stamped Collaboration Networks from Large git Repositories, *Mining Software Repositories (MSR) 2019*, May 26-27, Montreal, QC, Canada.
- Talk, Driver Characterisation & Driver Specific Trajectory Planning: An Inverse Optimal Control Approach. Systems, Man, and Cybernetics (SMC) 2014, October 5-8, San Diego, CA, USA.

## **AWARDS**

- 2019 German Informatics Society (GI) selects "git2net: Mining Time-Stamped Co-Editing Networks from Large git Repositories" for **Best of Data Science made in D/A/CH** track at INFORMATIK 2019.
- 2019 **Special MSR Mention** for our paper "git2net: Mining Time-Stamped Co-Editing Networks from Large git Repositories" at MSR 2019.
- 2017 MSc Investment & Wealth Management Best Applied Financial Report Prize.
- 2017 **Dean's List** for MSc Investment & Wealth Management (top 10% of class).