

# Konstantin Görgen

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## Current Position

09/2018- *Graduate Research Assistant and Doctoral Candidate*, ECON - Statistical Methods and Econometrics, Karlsruhe Institute of Technology (KIT), Karlsruhe

## Research Interests

My key interests lie in interpretable machine learning (ML) methods:

- Development of Novel Variable and Model Selection Techniques
- Statistical Inference for Machine Learning Methods
- Regularization Methods (Lasso/Elastic Net)
- Probabilistic Forecasting (ML-based techniques and evaluation)

## Publications, Working Papers and Work in Progress

*A pre-registered short-term forecasting study of COVID-19 in Germany and Poland during the second wave* (with J. Bracher, D. Wolfram, M. Schienle and others), Nature Communications, 2021, Vol. 12, 5173, [DOI: [10.1038/s41467-021-25207-0](https://doi.org/10.1038/s41467-021-25207-0)]

*How have German University Tuition Fees Affected Enrollment Rates: Robust Model Selection and Design-based Inference in High-Dimensions* (with M. Schienle), revise and resubmit, KIT working paper, [arXiv] (updated 01/2021)

*Predicting Value at Risk for Cryptocurrencies With Generalized Random Forests* (with J. Meirer and M. Schienle), submitted, KIT working paper, [arXiv],[SSRN] (updated 06/2022)

*Controlling False Discoveries With Robust Knockoffs: Uncovering Macroeconomic Factors of Bond Recovery Rates* (with A. Nazemi and M. Schienle),submitted, KIT working paper,[arXiv] (updated 06/2022)

*National and subnational short-term forecasting of COVID-19 in Germany and Poland, early 2021* (with J. Bracher, D. Wolfram, M. Schienle and others),revise and resubmit, [medRxiv] (updated 11/2021)

*Predicting Property Prices Using Augmented Crime Data: Extracting Information from Satellite Images with Convolutional Neural Networks* (with J. Deuschel and M. Schienle), KIT working paper

*Identifying Important Factors of Property Prices Using Satellite Images and Crime Data* (with M. Schienle and K. Yu), KIT working paper

*The German and Polish COVID-19 Forecast Hub*. (with J. Bracher, D. Wolfram, J. Deuschel, J. Ketterer, T. Gneiting and M. Schienle), <https://github.com/KITmetricslab/covid19-forecast-hub-de>

*On forecasting with distributional random forests* (with F. Krüger and S. Lerch), work in progress

*Success Factors in Football: An Analysis of the EURO 2020* (with V. Renner, M. Schienle and H. Wäsche), work in progress

## Education

09/2018-	DOCTORAL STUDENT, <i>expected completion: 08/2022</i> , ECON, Karlsruhe Institute of Technology (KIT)
01/2022- 04/2022	VISITING RESEARCHER, Department of Applied Statistics, Konkuk University, Seoul (South Korea)
10/2015- 05/2018	MSc, Industrial Engineering and Management, Karlsruhe Institute of Technology (KIT)
08/2016- 01/2017	EXCHANGE STUDENT, Industrial Engineering, INSA Lyon - Institut National des Sciences Appliquées de Lyon (France)
10/2012- 09/2015	BSc, Industrial Engineering and Management, Karlsruhe Institute of Technology (KIT)
09/2003- 06/2012	ABITUR, Kepler Gymnasium Tübingen

## Conference and Workshop Presentations

07/2020	7th HKMetrics-Workshop (online), Karlsruhe Institute of Technology (KIT), Germany
01/2020	Workshop on Causal Machine Learning, University of St. Gallen, Switzerland
09/2019	Statistische Woche 2019 (Statistical Week 2019), Trier University, Germany
09/2019	6th HKMetrics-Workshop, Mannheim University, Germany
06/2019	6th Annual Conference of the International Association for Applied Econometrics (IAAE), Nicosia, Cyprus
10/2018	5th HKMetrics-Workshop, Heidelberg University, Germany

## Teaching

Summer 2017	Introductory Statistics I (Student Tutorial, undergraduate level)
Winter 2017/18	Computer Lab with R for Introductory Statistics II (undergraduate level)
Summer 2018	Economics III (Student Tutorial, undergraduate Level)

Winter 2018/19	Applied Econometrics (Lecture/Tutorial, graduate level)
Summer 2019	Seminar Advanced Topics in Econometrics (Supervision, graduate level)
Winter 2019/20	Non-and Semiparametrics (Tutorial, graduate level)
Summer 2020	Financial Econometrics I (Tutorial, graduate level)
Winter 2020/21	Financial Econometrics II (Tutorial, graduate level)

## Work Experience

04/2017- 06/2018	<i>Student Research Assistant</i> , Institute of Economics (ECON), Karlsruhe Institute of Technology (KIT), Karlsruhe
04/2017- 06/2017	<i>Student Research Assistant</i> , FZI Research Center for Information Technology, Karlsruhe
08/2014- 07/2016	<i>Student Research Assistant</i> , Institute of Information Systems and Marketing (IISM), Karlsruhe Institute of Technology (KIT), Karlsruhe
08/2015- 10/2015	<i>International Production Intern</i> , Robert Bosch GmbH, Reutlingen
09/2013	<i>Project Management Intern</i> , Robert Bosch France SAS, Caen (France)

## Languages

German (native speaker), English (fluent), French (fluent), Spanish (basics)

## Grants, honors & awards

06/2021	Karlsruhe House of Young Scientists (KHYS) Research Travel Grant for research stay in Seoul, South Korea
04/2021	Winner of the <i>International Virtual Covid-Data Challenge</i> , Helmholtz Information & Data Science Academy, Berlin, Germany
11/2020	Winner of the <i>Helmholtz Datathon for Grand Challenges on Climate Change</i> , Helmholtz Information & Data Science Academy, Berlin, Germany
08/2016	ERASMUS+ Grant for studying at INSA Lyon, France

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Karlsruhe, June 28, 2022, Konstantin G3rger

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[http://statistik.econ.kit.edu/mitarbeiter\\_2716.php](http://statistik.econ.kit.edu/mitarbeiter_2716.php)