

# Melanie Schienle

## contact information

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## ■ personal

**citizenship** German  
**languages** German (mother tongue), English (excellent), French (good), Italian, Arabic (very basic), Latin

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## ■ academic positions

04/ 2015 - Full Professor and Chair of Econometrics (W3, tenured), Karlsruhe Institute of Technology (KIT)  
10/ 2012 – 03/ 2015 Associate Professor of Econometrics (W2, tenured), director of the Institute of Empirical Economics, Leibniz University Hannover  
11/ 2008 - 09/ 2012 Assistant Professor Econometrics (W1), Humboldt-Universität zu Berlin  
10/ 2004 - 10/ 2008 Research Fellow, Department of Economics, University of Mannheim, Germany

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## ■ education

06/ 2008 Ph.D in Economics, Mannheim University (“summa cum laude”) advisors: Prof. Dr. Enno Mammen (Mannheim), Prof. Oliver Linton, PhD. (LSE London) thesis: “Nonparametric Nonstationary Regression”  
2003 - 2008 Ph.D. Studies in Economics, Mannheim University, Center of Doctoral Studies in Economics (CDSE)  
2006 Visiting PhD student, London School of Economics (Prof. Oliver Linton)  
09/ 2003 Diploma in Mathematics with minor in Theoretical Physics, Karlsruhe University (GPA 1.0 – with distinction, scale: 1 best - 5 fail)  
1998 - 2003 Studies in Mathematics and Theoretical Physics, Karlsruhe University, Germany  
2001 - 2002 Studies in Mathematics and Financial Mathematics, University of Toronto, Canada  
06/1998 Highschool Diploma, Grimmelshausen-Gymnasium Offenburg (GPA 1.0, scale: 1 best - 5 fail)

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## ■ publications

*Testing for an Omitted Multiplicative Long-Term Component in GARCH Models* (with Christian Conrad), **Journal of Business & Economic Statistics**, 2020, Vol.38, No.2, 229-242; doi:10.1080/07350015.2018.1482759  
*Detecting structural differences in tail dependence of financial time series* (with Carsten Bormann), **Journal of Business & Economic Statistics**, 2020, Vol.38, No.2, 380-392; doi:10.1080/07350015.2018.1506343  
*Determining Vector Error Correction Models in High Dimensions* (with Chong Liang), **Journal of Econometrics** 2019, Vol. 208, No. 2, 418-441; doi:10.1016/j.jeconom.2018.09.018  
*Measuring Connectedness of Euro Area Sovereign Risk* (with Rebekka Buse), **International Journal of Forecasting**, 2019, Vol.35, No.1, 25-44; doi:10.1016/j.ijforecast.2018.07.010  
*Semiparametric Estimation with Generated Covariates* (with Enno Mammen and Christoph Rothe), **Econometric Theory**, 2016, Vol. 32, No.5, 1140-1177 ; doi:10.1017/S0266466615000134  
*Systemic Risk Spillovers in the European Banking and Sovereign Network* (with Frank Betz (EIB, Luxemburg), Nikolaus Hautsch, Tuomas Peltonen (ECB, Frankfurt)), **Journal of Financial Stability**, 2016, Vol.25, 206–224 doi:10.1016/j.jfs.2015.10.006 - [Results reported in the ECB Financial Stability Review in May 2013 (pages 71-73 ,box 6) and Nov.2013 (page 74 ,chart 3.15)]

*Beyond dimension two: A test for higher-order tail risk* (with Carsten Bormann and Julia Schaumburg), **Journal of Financial Econometrics**, 2016, Vol. 14, No 3, 552-580; doi: 10.1093/jfinec/nbv022

*Financial Network Systemic Risk Contributions* (with Nikolaus Hautsch and Julia Schaumburg), **Review of Finance**, 2015, Vol 19, No 2, 685-738; doi:10.1093/rof/rfu010

*Nonparametric Kernel Density Estimation Near the Boundary* (with Peter Malec), **Computational Statistics & Data Analysis**, 2014, Vol. 72, 57-76, doi:10.1016/j.csda.2013.10.023

*Forecasting systemic impact in financial networks* (with Nikolaus Hautsch and Julia Schaumburg, in press **International Journal of Forecasting**, 2014, Vol.30, No.3, 781–794; doi:10.1016/j.ijforecast.2013.09.004

*Capturing the Zero: A New Class of Zero-Augmented Distributions and Multiplicative Error Processes* (with Nikolaus Hautsch and Peter Malec), **Journal of Financial Econometrics**, 2013, Vol.12, No.1, 89-121; doi: 10.1093/jfinec/nbt002

*Nonparametric Regression with Nonparametrically Generated Regressors* (with Enno Mammen and Christoph Rothe), the **Annals of Statistics**, 2012, Vol. 40, No. 2, 1132-1170, doi:10.1214/12-AOS995

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*Additive Models: Extensions and Related Models* (joint with Enno Mammen and Byeong U. Park) the **Handbook of Applied Nonparametric and Semiparametric Econometrics and Statistics** (editors Racine, Ullah), Oxford University Press 2014

*Generated Regressors in Nonparametric Estimation: A Short Review* (joint with Enno Mammen and Christoph Rothe), in **Recent Developments in Modeling and Applications in Statistics** (editors Oliveira, da GraccaTemido, Henriques and Vichi), Springer 2013

*Nonparametric Estimation of the Risk Neutral Density* (with Maria Grith and Wolfgang Härdle) in **Handbook of Computational Finance** (editors Duan, Härdle, Gentle), Springer 2012

*Nonparametric Nonstationary Regression*

In **Oberwolfach Report**, Volume 4, Issue 2, 2007 for the Workshop on Semiparametric and Nonparametric Methods in Econometrics

*A retrospective assessment of different endodontic treatment protocols* (with Andreas Bartols, Carsten Bormann, Luisa Werner, Winfried Walther, Christof E. Dörfer) PeerJ, 2020, 8:e8495 <https://doi.org/10.7717/peerj.8495>

#### **papers under revision/ submitted papers**

**Tailored Lasso for Moderate Dimensional VECM and Exchange Rates** (with Shi Chen) KIT working paper, *submitted* (01/2020)

**Assessing the Impact of Policy and Regulation Interventions in European Sovereign Credit Risk Networks: What worked best?** (with Rebekka Buse und Jörg Urban), *KIT working paper and ERSB working paper* [[link](#)], *submitted* (11/2019)

**Time-varying Limit Order Book Networks** (with Chen, S., Härdle, W.), KIT working paper, *submitted* (04/2020)

**Nonparametric Nonstationary Regression with Many Covariates**, *revise and resubmit*, *Econometric Theory*

#### **working papers and ongoing work**

**Evaluating Effects of Tuitions Fees: Lasso for the Case of Germany** (with K. Görgen) KIT working paper (04/2020)

**Ultra-High Dimensional Cointegration** (with Shi Chen) KIT working paper (04/2020)

**Estimation of Covariance Matrices for High-Dimensional Time Series** (with Taras Bodnar, Ostap Okhrin and Nestor Parolya) working paper, 2018

**Testing in nonstationary component GARCH models** working paper KIT, 2018  
[invited paper: IMS APRM 2016, time-series conference Oxford 2015]

**Nonparametric Additive Regression with Missing Data** (with Oliver Linton, Enno Mammen and Kyusang Yu) working paper KIT, 2018

**Nonparametric Regression with Stationary and Nonstationary Variables** (with Kyusang Yu) working paper Leibniz University

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**■ conference/ workshop presentations**


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IAAE, Cyprus, June 2019  
 INET Conference on Big Data Methods in Econometrics and Finance (invited), Cambridge UK, May 2019  
 CFE-ERCIM (invited), Pisa, December 2018  
 IMS-APRM (invited), Singapore, June 2018  
 Verein für Socialpolitik, Wien, September 2017 (invited Session, Ausschuss für Ökonometrie)  
 CFE-ERCIM, Seville, Spain, December 2016 (invited)  
 IMS Asia-Pacific RIM Meeting, Hong-Kong, June 2016 (invited),  
 HITS Workshop on Forecasting, Heidelberg, June 2016 (invited)  
 Dresden, March 2016 (invited)  
 ERCIM/CFE (invited), London, December 2015  
 Conference on Nonparametric Nonlinear Time Series (invited), Oxford, November 2015  
 World Congress of the Econometric Society, Montreal, August 2015  
 SYRTO Conference on Systemic Risk, Amsterdam (invited), June 2015  
 11th BMRC-DEMS Conference on Macro and Financial Economics/Econometrics (invited), London, May 2015  
 ERCIM/CFE (invited), Pisa, December 2014  
 IMS Asia-Pacific RIM Meeting (invited), Taipei, July 2014  
 Workshop on "Non- and Semiparametric Volatility and Correlation Models ", Paderborn, July 2014  
 Conference on Applicable Semiparametrics (invited), Berlin, October 2013  
 Humboldt-Copenhagen Conference, Berlin, March 2013  
 IMS Asia-Pacific RIM Meeting (invited), Tokyo, July 2012  
 First Meeting of the Society of Nonparametric Statistics (invited), Thessaloniki, June 2012  
 SETA (Symposium of Econometric Theory and Applications), Shanghai, May 2012  
 Conference on Macro and Financial Econometrics, Heidelberg, September 2011  
 Verein für Socialpolitik, Frankfurt, September 2011  
 SETA (Symposium of Econometric Theory and Applications), Melbourne, April 2011  
 ESWC (Econometric Society World Congress), Shanghai, August 2010  
 Humboldt - Princeton Conference, Princeton, October 2009  
 International Symposium on Risk Management and Derivatives, Xiamen, China, July 2009  
 Banff Workshop "Non- and Semiparametric Methods", Banff Canada, April 2009\*  
 Oberwolfach Workshop "Sparse Recovery Problems in High Dimensions: Statistical Inference and Learning Theory", March 2009\*  
 ESEM (Meeting of the European Econometric Society), Milano, August 2008  
 German Open Conference on Probability and Statistics, Aachen, March 2008  
 European Winter Meeting of the Econometric Society, Brussels, November 2007  
 Oberwolfach Workshop "Non- and Semiparametric Methods", March 2007  
 ESEM (Meeting of the European Econometric Society), Vienna, August 2006  
 ENTER conference, Stockholm, January 2006

(\* invited, presentation by coauthor)

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**■ invited seminars**


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|------|--|
| 2020 | Heidelberg Institute for Theoretical Studies (HITS), Magdeburg University  |
| 2019 | "Ausschuss Ökonometrie " of Verein für Socialpolitik Rauschholzhausen, Vienna University, TU Dresden, LMU Munich                   |
| 2018 | European Systemic Risk Board at the European Central Bank, Erasmus University Rotterdam, WIAS Berlin, Weierstrass Institute Berlin |
| 2017 | Cologne University, Konstanz University, Tinbergen Institute Amsterdam, HU Berlin, Toulouse University                             |
| 2016 |  |
| 2015 | Freiburg University, Aarhus University and CREATES (DK), Uppsala University (SE)<br>Essex University (UK)                          |

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| 2014 | ISOR Seminar Vienna University, "Ausschuss Ökonometrie" of Verein für Socialpolitik Rauschholzhausen, Kiel University, University of Duisburg-Essen, Bonn University, Cambridge University (UK), Economic Risk Seminar HU Berlin, Osnabrück University, University of East Anglia (UK) |
| 2013 | Kiel University, European Banking Authority (EBA) in London, Karlsruhe Institute of Technology   |
| 2012 | FU Berlin  |
| 2011 | Hannover University, Brunel University (UK), CORE-Ecares Seminar at Louvain-la-Neuve   |
| 2010 | Heidelberg University, Humboldt University Berlin, Tilburg University and CentER   |
| 2009 | Mathematical Statistics Seminar at Weierstrass Institute Berlin, University of Cyprus at Lefkosia, CRC 649 Seminar in Motzen, Economic Risk Seminar at HU Berlin, Jour fixe CRC 649, Berlin  |
| 2008 | Princeton University, Humboldt University Berlin   |
| 2007 | CDSEM-Seminar Mannheim University, Brown Bag Seminar Mannheim University, GREMAQ statistics and econometrics seminar Toulouse University   |
| 2006 | London School of Economics, University College London  |
| 2005 | Stochastics seminar Marburg University   |

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|-----------|---|
| 2020-2023 | <b>PI Helmholtz Association IPV Pilot-grant</b> for "Scalable and Interpretable Models for Complex And structured Data (SIMCARD) (500,000€) - (joint with Tilmann Gneiting, HITS and Sach Mukherjee, DZNE)  |
| 2017-2020 | <b>PI German Science Foundation (DFG)-grant</b> for "Quantile Methods in complex financial systems" (220,000€)  |
| 2014-2018 | <b>PI German Science Foundation (DFG)-grant</b> for "Non- and Semiparametric Methods for Euler Equations" (175,000€)  |
| 2015-2020 | <b>BMBF-grant</b> supporting <b>the chair of Econometrics and Statistics at KIT</b> (Professorinnen-Programm, 350,000€)   |
| 2010-2012 | <b>Head of Project B11</b> "Non- and Semiparametric Methods for Nonlinear Cointegration Type Models in Euler Equations and Foreign Exchange Rate Markets" <b>within the Collaborative Research Center 649 "Economic Risk"</b> (110,000€)  |
| 2012-2016 | <b>Head of Project B11</b> "Non- and Semiparametric Techniques for Financial Risk Measurement" (joint with Nikolaus Hautsch) <b>within the Collaborative Research Center 649 "Economic Risk"</b> (175,000€) – (due to change of university from 1/10/2012 only associated partner by DFG rules) |
| 2011-2015 | <b>Grant with the German-Franco-University (DFH)</b> (120,000€) for student scholarships and infrastructure in the double degree program HU Berlin – ENSAE Paris/ENSAI Rennes (from 10/2012 project continued by Nikolaus Hautsch at HU Berlin)   |

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## ■ awards

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| 2019 | Certificate of excellence in teaching for the lecture "Statistics I" Department of Economics and Management, KIT  |
| 2018 | Certificate of excellence in teaching for the lecture "Economics III – Introduction to Econometrics" Department of Economics and Management, KIT<br>Certificates of excellence in teaching for the lecture "Statistics II", Department of Economics and Management, KIT   |
| 2017 | <b>Faculty teaching award</b> , Department of Economics and Management, KIT for the restructuring of the Statistics I and II program (10 000€)<br>Certificate of excellence in teaching for the lecture "Economics III – Introduction to Econometrics" Department of Economics and Management, KIT<br>Certificates of excellence in teaching for the lecture "Statistics II", Department of Economics and Management, KIT |

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| 2016      | Certificate of excellence in teaching for the lecture "Economics III – Introduction to Econometrics" Department of Economics and Management, KIT<br>Certificate of excellence in teaching for the seminar "Econometric Study Group: Machine Learning" Department of Economics and Management, KIT |
| 2015      | Certificate of excellence in teaching for the lecture "Statistics I" Department of Economics and Management, KIT<br>Certificate of excellence in teaching for the lecture "Economics III- Introduction to Econometrics", Department of Economics and Management, KIT                              |
| 2009      | Oberwolfach Graduate Leibniz Fellow   |
| 2008      | Invitation to attend the Nobel Laureates Meeting in Lindau  |
| 2007      | Invitation to the Winter Meeting of the Econometric Society in Brussels   |
| 2006      | Scholarship of the German Science Foundation (DFG) for research stay at LSE   |
| 2003-2004 | PhD-Scholarship of the German Science Foundation (DFG)  |
| 2003      | Faculty award for best graduation of the year   |

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### ■ teaching experience

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#### lectures at KIT:

Statistics I and II introductory core courses with accompanying Tutorials and R-Lab sessions for Bachelor students (Summer 2015 + Fall 2015, Summer 2017+ Fall 2017, Summer 2019 + Fall 2019) [750 students]

Economics III - Introduction to Econometrics for Bachelor students (Summer 2015-2020)

Applied Econometrics for Master students (Summer 2015, 2016, Fall 2017, 2019)

Financial Econometrics (Summer 2016,2018, 2020)

Non- and Semiparametric Methods (Fall 2015, 2016, 2017, 2019)

Seminars: Applied Econometrics (Fall 2015,2016), Topics in Econometrics (Fall 2016, Summer 2017, 2018), Econometrics study group on Statistical Learning (Fall 2015, 2016, Summer 2016, 2017)

#### lectures at Leibniz University Hannover:

Empirical Economics, introductory core course with accompanying R-Lab Tutorials for Bachelor students (Summer 2013,Fall 2014) [800 students]

Applied Econometric Methods, core course for Master students (Fall 2012 and 2013) [120 students]

Applied Econometrics for Bachelor students (Fall 2012, 2013, 2014)

Financial Econometrics for Bachelor students (Summer 2014)

Non- and Semiparametric Methods for Bachelor students (Fall 2012 and Summer 2013, 2014)

Seminar in Micro-Econometrics for Bachelor students (Summer 2013, 2014)

#### lectures at HU Berlin and Mannheim University:

Mathematics for PhD and advanced Master Students, course for BDPEMS and DIW graduate school (Humboldt University and DIW, Berlin, Fall 2009, 2010, 2011)

Advanced Econometrics for PhD, Master and Diploma Students (Humboldt University, Berlin, Summer 2009, 2010, 2011 and 2012)

Selected Topics in Econometrics: "Econometric Techniques for Assessing Systemic Risk" for PhD and advanced Master Students (Humboldt University, Berlin, Fall 2011)

Selected Topics in Econometrics: "Semiparametric Estimation Methods" for PhD and advanced Master Students (Humboldt University, Berlin, Fall 2010)

Selected Topics in Econometrics: Bootstrap Techniques for PhD and advanced Master Students (Humboldt University, Berlin, Fall 2009)

Selected Topics in Econometrics: Parametric and Nonparametric Methods in Nonlinear Time Series for Master and Diploma Students (Humboldt University, Berlin, Winter 2008/2009)

Econometrics I for PhD Students (Mannheim University, Fall 2008)

Theoretical Econometrics for Diploma and PhD students (Mannheim University, Spring 2008)

Advanced Mathematics for PhD Students (Mannheim University, Fall 2006/2007/2008)

Seminar Nonlinear and Nonparametric Time Series (Mannheim University, Summer 2006)

Undergraduate Statistics (Mannheim University, Fall 2004, Summer and Fall 2005)

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**■ academic activities**


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associate editor, Journal of Time Series Analysis (since 2016)

chairwoman standing fields committee in econometrics of the German Economic Association/ Vorsitz Ausschuss für Ökonometrie im Verein für Socialpolitik (since 2019)

program committee member:

- Annual meeting of the German Economic Association 2019 –Track chair Econometrics
- Econometric Society European summer Meeting (ESEM) 2018, Cologne
- German Probability and Stochastic Days (GPSD) 2018, Freiburg, section lead chair for Nonparametric and asymptotic statistics, joint with Jan Johannes (Heidelberg University)
- Annual meeting of the German Economic Association 2015

joint organizer and director (together with Christian Conrad, Heidelberg and Carsten Trenkler, Mannheim) of the **HKMetrics network** (<https://hkmetrics.de>) involving:

inaugural conference (09/2017) with Gumbel lecture

regular joint research seminars, joint PhD student workshops (at KIT (07/2015 +01/2018), at Heidelberg University (02/2016+09/2018), at Mannheim University (11/2016 +09/2019)

**memberships:** European Econometric Society, Bernoulli Society, The Institute of Mathematical Statistics, the Society of Financial Econometrics, European Finance Association, CFE-network of Computational Financial Econometrics, Verein für Socialpolitik – elected member of Ausschuss für Ökonometrie, Verein für Socialpolitik

**refereeing service:**

The Annals of Statistics, Journal of Econometrics, Econometric Theory, Bernoulli, Journal of Business and Economic Statistics, JASA, Scandinavian Journal of Statistics, Journal of Applied Econometrics, Journal of Financial Econometrics, electronic Journal of Statistics, The Oxford Bulletin, Journal of Time Series Analysis, Economics Letters, Journal of Nonparametric Statistics, The Economics of Transition, Statistics and Probability Letters, CSDA, SIAM Journal of Financial Mathematics, Journal of Empirical Finance, International Journal of Forecasting, Journal of Banking and Finance, ECB working paper series, Journal of the Korean Statistical Society, Metrika, International Journal of Information Technology & Decision Making, Journal of Mathematical Finance and Economics, Journal of Financial Analysis; DFG

**workshop/session organization:**

“Modern Econometrics faces Machine Learning” (joint with Weining Wang, Wolfgang Härdle and Bernd Fitzenberger) at Humboldt University Berlin (07/06/2017)

“Methods and Challenges in Financial Risk Measurement” at Kloster Drübeck (29/04-01/05/2010)

invited session organizer at the joint Conference on Methodological and Computational Statistics (ERCIM) and Computational Financial Econometrics (CFE): London 2015: session “Recent Advances in Time Series”, Pisa 2014: session “Recent theoretical econometric advances in financial risk measurement”, London 2013: session “Recent Advances in Non- and Semiparametric Regression”

**faculty/university service:**

elected member of CRYM (university research council) at KIT (2017- )

member of the steering committee center of mathematics in science, economics and engineering (MathSEE) at KIT since 2018

member of various hiring committees, KIT (2015-)

member of the committee of Leitprojekt 5 implementing the core strategy (Dachstrategie) of KIT 2025

elected member of the faculty board, LU Hannover (04/2013- 03/2015)

head of the joint hiring committee for the finance cluster at LU Hannover involving three full professorships in international financial markets, financial market theory and finance (2014), head of the hiring committee for a junior professorship in development economics, LU Hannover (2013), member of several other hiring committees at LU Hannover

coordinator double degree cooperation HU Berlin- ENSAE Paris, ENSAI Rennes (2008-2012)

coordinator Erasmus Mundus Proposal Master Statistics: HU Berlin, ENSAE Paris, UCL London, ETH Zurich, UC Berkeley 2010 (invited for resubmission)

faculty member of the Berlin Doctoral Program in Economics and Management Science (BDPEMS) and the DIW graduate program (2008-2012)

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**■ students**


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**PostDocs:**

Shi Chen (2017-)

Rebekka Gätjen (2019- )

**PhD students:**

Julia Schaumburg (2008-2013): Quantile Methods for Financial Risk Management, associate prof VU Amsterdam

Peter Malec (2008-2013): Essays on the Econometric Analysis of High-Frequency Data, post-doc U Cambridge

Carsten Bormann (2012-2017): Multivariate Extremes in Financial Markets, now at SAP AG, Berlin (Faculty award)

Jörg Urban (2015-2017): Credit risk contagion and arbitrage: Evidence from sovereign bond and credit default swap markets , now post-doc U Basel (Faculty award)

Chong Liang (2013-2018): High-Dimensional Time Series – New Techniques and Applications , now at Credit Suisse, London (Faculty award)

Rebekka Gätjen (2013-2019): Measuring Dynamic Spillovers in Networks: Sovereign Contagion, Regulation Effects and Market Sectors, now postdoc at KIT

Konstantin Görden (2018- )

External second supervisor for: Karin Stürmer (Heidelberg University, 2016), Shi Chen (HU Berlin, 2017) , Konstantin Heidenreich (KIT, 2018), Onno Kleen (Heidelberg, 2020)

**master-/diploma students**

at KIT: Fabian Kächele, Jonas Lehmann – now PhD student at MIT (2019), Tobias Rosenberger, Elodie Grenard , Carlo Siebenschuh, Konstantin Görden – now PhD student at KIT (2018), Florian Merkel, Karsten Ruppert, Christian Rörig – now PhD student at Cambridge University, Frieder Conrad, Phoung van Thanh (2017), Marco Hamacher (2016)

older (Mannheim/Berlin /Hannover):

Petyo Bonev (2008), *Generalized Nonparametric Likelihood Testing*, now assistant professor, Paris

Julia Schaumburg (2008), *Nonparametric Quantile Methods*, now associate professor VU Amsterdam

Stephen Thiele (2011) *Bootstrapping Moment Conditional Models with Dependent Data*, now PhD Student Cambridge University, UK

Carsten Bormann (2011) *Measuring Risks with Multivariate EVT*, PhD student LU Hannover/KIT

Gunavan (2012) *An Empirical Comparison of Backtesting Techniques for VaR*. BNP Paribas

Jing Huang (2012) *An Empirical Investigation of LASSO and SCAP Methods*, PhD Student BDPEMS Berlin

Axel Groß-Klußmann (2012) *Modelling Intra-daily Stock Market Volatility*, PhD Student BDPEMS Berlin

Arthur Alik-Lagrange (2012) *Measuring Welfare and Assessing the Performance of India's National Rural Employment Guarantee Scheme*, PhD student Toulouse University

Céline Lecavellier des Étangs-Levallois (2012) *Intergenerational Economic Mobility: The Transmission of Income Level from Fathers to Sons*, PhD student Paris

Camille Dufour (2013) *Evaluation of the impact of the tuition fees policy on enrollment in Germany*, PhD in Paris

Tabea Nitschke (2013) *Estimating and Predicting Systemic Risk Contributions with a GARCH-MIDAS Model*, KPMG

**bachelor students**

Cindy Lamm, Jasmin Fliegner, Gunavan, Rebekka Gätjen, Karl-Friedrich Israel, Philipp Burckhardt (faculty award, now PhD student at CMU), Lucas Tittmann, Malte Lichtenberg (all HU Berlin); Lisa Denkmann, Maximilian Pahl (LU Hannover)

Daniela Ruchser, Matthias Bitzer, Jonas Rotter, Alexander Jaus, Louisa Werner, Lotta Rüter, Dominik Herrmann, Hailong Chen (KIT)

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[04 - 2020]

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