Curriculum Vitae

Fabian Dunker

Personal Data

Name Fabian Clemens Dunker

Address School of Mathematics and Statistics

Private Bag 4800 Christchurch 8140 New Zealand

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Citizenship German

Scientific interests

Statistical inverse problems, Nonlinear Inverse Problems, Econometric Applications Nonparametric IV Models, Random Coefficient Models, Qualitative Constraints

Employment

since June 2017 Lecturer at the School of Mathematics and Statistics,

University of Canterbury

October 2015 Research Fellow at the Institute for Mathematical

- May 2017 Stochastics, University of Göttingen,

Member of the Research Center "Poverty, Equity and

Growth in Developing Countries"

October 2014 Research Fellow at the Institute of Statistics,

- September 2015 Ruhr-Universität Bochum,

Member of the Research Center "Statistical modelling of

nonlinear dynamic processes"

June 2014 Research Fellow at the Institute for Applied Mathematics,

- September 2014 University of Göttingen

January 2014 Visiting Assistant Professor at the Department of

- May 2014 Economics, Boston College

April and May 2012 Visiting Researcher at Boston College

September 2008 Research Fellow at the Institute for Applied Mathematics,

- December 2013 University of Göttingen,

Member of the German-Swiss Research Group

"Statistical Regularization and Qualitative Constraints"

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January 2012	Doctor of Sciences in Mathematics, University of Göttingen Thesis title: Nonlinear Inverse Problems with Noisy Operators and Applications in Nonparametric Instrumental Regression 1st Supervisor: Prof. Dr. Thorsten Hohage 2nd Supervisor: Prof. Dr. Enno Mammen
March 2008	Magister Artium in Philosophy, University of Göttingen
November 2006	Diploma in Mathematics, University of Göttingen
Teaching	
Lectures	Time Series Methods, 2017, University of Canterbury
	Optimization, 2016/17, University of Göttingen
	Econometric Methods, 2014, Boston College
	Statisitcal Inverse Problems, 2013/14, University of Göttingen
Tutorials	Calculus Functional Analysis Number Theory Linear Algebra

Publications

Dunker, F., Hohage, T. On Parameter Identification in Stochastic Differential Equations by Penalized Maximum Likelihood. *Inverse Problems*, **30** 095001, 2014.

Dunker, F., Florens, J.-P., Hohage, T., Johannes, J., Mammen, E. **Iterative** Estimation of Solutions to Noisy Nonlinear Operator Equations in Nonparametric Instrumental Regression. *Journal of Econometrics*, 178(3): 444 – 455, 2014.

Dunker, F., Florens, J.-P., Hohage, T., Johannes, J., Mammen, E. **Nonlinear** Inverse Problems with Noisy Operators in Econometrics. *Oberwolfach Report*, **51/2012**, 41–42, 2012.

Dunker F. Nonlinear Inverse Problems with Noisy Operators and Applications in Nonparametric Instrumental Regression. *Dissertation* Der andere Verlag, Uelvesbüll, 2012.

Working Papers and Preprints

Dunker, F., Eckle, K., Proksch, K., Schmidt-Hieber, J. **Tests for Qualitative Features** in the Random Coefficients Model. major revision *JASA*.

Dunker, F. Convergence of the risk for nonparametric IV quantile regression and nonparametric IV regression with full independence. revise and resubmit *Econometric Theory*.

Dunker, F., Hoderlein, S., Kaido, H., Sherman, R. Nonparametric Identification of Random Coefficients in Static Games of Complete Information. revise and resubmit *Journal of Econometrics*.

Dunker, F., Hoderlein, S., Kaido, H. Random Coefficients in Static Games of Complete Information. reject and resubmit *Journal of Econometrics*.

Dunker, F., Hoderlein, S., Kaido, H. Nonparametric Identification of Random Coefficients in Endogenous and Heterogeneous Aggregate Demand Models. submitted.

Talks

17 May 2017	Oberwolfach Workshop: Computational Inverse Problems for Partial Differential Equations $(invited\ talk)$
28 Mar. 2017	Department of Economics, University of Mannheim $(invited\ talk)$
10 Dec. 2016	International Conference of the ERCIM WG on Computational and Methodological Statistics, Seville $(invited\ talk)$
08 Dec. 2016	Department of Economics, University of Rostock $(invited\ talk)$
01 Dec. 2016	School of Mathematics and Statistics, University of Canterbury, Christchurch $(invited\ talk)$
25 May 2016	Inverse Problems: Modeling and Simulation Conference, Fethiye $(invited\ talk)$
29 May 2015	Applied Inverse Problems Conference, Helsinki $(invited\ talk)$
27 Apr. 2015	Department of Economics, Humboldt-Universität Berlin $(invited\ talk)$
16 Mar. 2015	Department of Economics, Ludwig-Maximilian-Universität Munich $(invited\ talk)$
14 Jan. 2015	Institute of Applied Mathematics, University of Münster $(invited\ talk)$
12 Sep. 2014	Department of Economics, University of St. Gallen $(invited\ talk)$

18 July 2014	Department of Economics, University of Mannheim $(invited\ talk)$
27 June 2014	Institute of Statistics, University of Bochum ($invited\ talk$)
25 June 2014	Department of Economics, University of Bonn $(invited\ talk)$
02 June 2014	Cowles Econometrics Conference at Yale ($invited\ talk$)
07 Apr. 2014	Econometrics Seminar Boston College $(invited\ talk)$
25 Oct. 2012	Oberwolfach Workshop: Computational Inverse Problems $(invited\ talk)$
03 June 2012	10th German Probability and Statistics Days in Mainz
22 Nov. 2011	Research Seminar of Mathematical Econometrics, Stochastics and Finance at the CEEE, University of Mannheim (<i>invited talk</i>)
9 June 2011	Workshop: Mathematical Statistics meets Econometrics at ZEW Mannheim
25 May 2011	Applied Inverse Problems Conference at Texas A&M $$
20 Aug. 2010	28th European Meeting of Statisticians ($invited\ talk$)
24 Sep. 2009	Workshop of the DFG-SNF Research Group FOR916 in Bern

Refereeing for Journals

Journal of Nonparametric Statistics Journal of Applied Statistics Inverse Problems Annals of Economics and Statistics Applied Soft Computing Entropy

Mathematics