Peter Kramlinger

Curriculum Vitae

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Education and Experience

2022–today	Visiting Assistant Professor, University of California Davis.
2020–2022	Postdoctoral researcher, University of Vienna.
2016–2020	**Doctorate (PhD)** in in mathematical statistics, University of Göttingen.
2014–2016	**Master of Science** in mathematical finance, Technical University Munich.
2013–2014	Mathematics, Complutense University of Madrid, semester abroad.
2010–2013	**Bachelor of Science** in mathematics, Technical University Munich.

Research Interests

High dimensional inference, model selection, mixed-effect models, Small Area Estimation

Publications

Published	Kramlinger, Krivobokova and Sperlich (2022): Marginal and conditional multiple inference for linear mixed model predictors, *Journal of the American Statistical Association*, 118:544, 2344-2355, DOI: 10.1080/01621459.2022.2044826.
Published	Kramlinger, Schneider and Krivobokova (2023): Uniformly valid inference based on the Lasso in linear mixed models, *Journal of Multivariate Analysis, 198, 105230*, DOI: 10.1016/j.jmva.2023.105230.
Published	Tiedeck, Heindl, Kramlinger, Naas, Brütting, Kirkwood, Mulvaney, Herink (2022): Single-pixel fluorescence spectroscopy using near-field dispersion for single-photon counting and single-shot acquisition, *ACS Photonics*, 9, 9, 2931-2937, DOI: 10.1021/acsphotonics.2c00710.
Published	Geldsetzer, Chang, Meijer, Sudharsanan, Charu, Kramlinger, Haarburger (2023): Interviewer biases in medical survey data: The example of blood pressure measurements, *PNAS Nexus*, 3, 3, 109, DOI: 10.1093/pnasnexus/pgae109.
Manuscript in preparation	Kramlinger, Roycraft, Rajaratnam (2023): Confidence bands for the number of signals in high-dimensional data.

Grants and Fellowships

2021	**Small Research Grant** University of Vienna, for junior faculty projects.
2018–2020	**Scholarship** by Hanns-Seidel-Foundation, postgraduate studies.
2016–2019	**Member** of RTG 1644 'Scaling Problems in Statistics'.
2010–2016	**Scholarship** by Hanns-Seidel-Foundation, undergraduate studies.

Professional Activities

Jun 2024	**Invited Talk** at Small Area Estimation 2024, Lima, Peru.
Dec 2022	**Invited Talk** at CMStatistics 2022, London, United Kingdom.
May 2022	**Invited Talk** at Small Area Estimation 2022, Baltimore, USA.
Oct 2021	**Invited Talk** at Workshop 'Inference based on complex spectro-temporal information to enable high-speed photonic sensing', University of Bayreuth, Germany.
Dec 2018	**Invited Talk** at 10th International Calcutta Symposium on Probability and Statistics, University of Calcutta and Calcutta Statistical Association, India.
June 2018	**Contributed Talk** at Small Area Estimation 2018, Shanghai, PR China.
Mar 2018	**Poster** at Workshop YES 2018, TU Eindhoven, Netherlands.
June 2017	**Summer School** Advances in Quantile Regression, Minho University, Portugal.

Teaching

2023	**Lecture** 'Introduction to Mathematical Statistics', undergraduate level, English. Estimation theory, statistical inference and hypothesis testing
2022-2024	**Lecture** 'Data & Web Technologies for Data Analysis', graduate level, English. Introduction to Python and data acquisition
2022, 2023	**Lecture** 'Fundamentals of Statistical Data Science', undergraduate level, English. Introduction to statistical computing with R
2022	**Lecture** 'Generalizations of the Linear Model', undergraduate level, German. GLMs, LMMs and nonparametric regression
2020, 2021	**Lecture** 'Selected Topics in Statistics', graduate level, English. Bayesian estimation and MCMC methods; sample at Github
2021	**Lecture** 'Applied Statistics', undergraduate level, German. Application of statistical methods with R
2021	**Lecture** 'Computational Statistics', undergraduate level, English. Statistical programming with R, Julia and Python
2020, 2021	**Exercise** 'Statistics 1', undergraduate level, English. Introduction to statistics for economists
2019	**Assistant** 'Stochastic Modelling and Inference I', graduate level, English. Decision theory, estimation in parametric models
2018	**Assistant** 'Stochatic Lab Course II', undergraduate level, English. Advanced programming in R
2018	**Assistant** 'Stochastic Modelling and Inference III', graduate level, English. Asymptotic statistics and GLMs

Reviews

- ○ Journal of the American Statistical Association
- ○ Journal of Statistical Planning and Inference
- ○ Journal of Computational and Graphical Statistics
- ○ Journal of the Royal Statistical Society, Series A
- ○ Statistica Sinica
- ○ Statistical Analysis and Data Mining
- ○ Statistics, Politics and Policy