

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](https://doi.org/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](https://doi.org/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/acsp Photonics.2c00710](https://doi.org/10.1021/acsp Photonics.2c00710).
- Published Geldsetzer, Chang, Meijer, Sudharsanan, Charu, Kramlinger, Haarbuerger (2023): Interviewer biases in medical survey data: The example of blood pressure measurements, *PNAS Nexus*, 3, 3, 109, DOI: [10.1093/pnasnexus/pgae109](https://doi.org/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

- Nov 2024 **Seminar Talk** at UC Santa Cruz, Santa Cruz, United States.
Jun 2024 **Invited Talk** at Small Area Estimation 2024, Lima, Peru.
Feb 2023 **Seminar Talk** at UC Davis, Davis, United States.
Dec 2022 **Invited Talk** at CMStatistics 2022, London, United Kingdom.
May 2022 **Invited Talk** at Small Area Estimation 2022, Baltimore, USA.
Oct 2021 **Seminar Talk** at University of Bayreuth, 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
- 2022-2024 **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** 'Stochastic 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