

Peter Kramlinger

Curriculum Vitæ

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Research Interests

Mixed-effect models, multiple inference, model selection, post-selection inference, classification

Education and Experience

- 2020–today 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.

Dissertation

- Field Essays in Inference in Linear Mixed Models
- Supervisors Tatyana Krivobokova, Thomas Kneib, Stefan Sperlich
- Description Mixed models enjoy wide application over a whole range of applied fields, from official surveys to genetics. My interest lies in the theory that adequately quantifies uncertainty in order to address problems in understanding the underlying model.

Publications

- Published Kramlinger, Krivobokova and Sperlich (2022): Marginal and Conditional Multiple Inference for Linear Mixed Model Predictors, *Journal of the American Statistical Association*, e-pub ahead of print, DOI: [10.1080/01621459.2022.2044826](https://doi.org/10.1080/01621459.2022.2044826).
- Submitted Kramlinger, Schneider and Krivobokova (2022): Uniformly Valid Inference Based on the Lasso in Linear Mixed Models, [arXiv: 2204.03887](https://arxiv.org/abs/2204.03887).
- Manuscript in Preparation Haarbuerger, Kramlinger, Geldsetzer and Sudharsanan: Interviewer Biases in Medical Survey Data: The Example of Blood Pressure Measurements.
- Manuscript in Preparation Krietenstein, Kramlinger, Herink: Single-Pixel Fluorescence Spectroscopy based on Dispersive Near-Field Reconstruction.

Professional Activities

- May 2022 **Invited Talk** at Small Area Estimation 2022, Baltimore, USA.
- October 2021 **Invited Talk** at Workshop 'Inference based on complex spectro-temporal information to enable high-speed photonic sensing', University of Bayreuth, Germany.
- December 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.
- March 2018 **Poster** at Workshop YES 2018, TU Eindhoven, Netherlands.
- June 2017 **Summer School** Advances in Quantile Regression, Minho University, Portugal.

Teaching

- 2022 **Lecture** 'Generalizations of the Linear Model', undergraduate level, German. GLMs, LMMs and nonparametric regression
- 2021, 2020 **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
- 2021, 2020 **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

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.