Jan-Ole Koslik

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EDUCATION

PhD in Statistics Bielefeld University, Germany	2023 - today
MSc Statistical Science Bielefeld University, Germany Grade: 1.0; graduated first of my class	2021 - 2023
BSc Economics (intermediate studies) Bielefeld University, Germany	2020 - 2021
Study Abroad Budapest Business School, Hungary	2019
BA Business Administration Bielefeld University of Applied Sciences, Germany Grade: 1.4	2017 - 2020
EMPLOYMENT	
Research Associate Statistics and Data Analysis Group Bielefeld University, Germany	2023 – today
Research Assistant Statistics and Data Analysis Group Bielefeld University, Germany	2022 - 2023
Working Student Pricing Intelligence CLAAS KGaA mbH, Germany	2021 - 2022
Intern Market Intelligence CLAAS KGaA mbH, Germany	2020

1. Michels, R., **Koslik, J.-O.** (2024). On the combination of data smoothing and Markov-switching models. Journal of the Royal Statistical Society – Series C: Applied Statistics, glad110.

PREPRINTS

PUBLICATIONS

Koslik, J.-O. (2024). Hidden semi-Markov models with inhomogeneous state dwell-time distributions. Preprint, arXiv:2405.13553.

Koslik, J.-O., Feldmann, C.C., Mews, S., Michels, R., Langrock, R. (2023). Inference on the state process of periodically inhomogeneous hidden Markov models for animal behaviour. Preprint, arXiv:2312.14583.

Dyck, J., Koslik, J.-O., Sauzet, O. (2023). EgoCor: an R package to fit exponential semi-variograms to model the local spatial correlation structure of health outcomes. Preprint, arXiv:2309.12979.

SOFTWARE

I have developed and participated in developing software packages for the R programming language:

- LaMa: Fast and convenient likelihood evaluation for latent Markov models like HMMs, HSMMs, SSMs and point processes. https://cran.r-project.org/web/packages/LaMa
- EgoCor: Simple Presentation of Estimated Exponential Semi-Variograms. https://cran.r-project.org/web/packages/EgoCor

TEACHING

Workshops

Using hidden Markov models to uncover ecological state dynamics from biologging data One-day workshop in Tokyo, Japan.

March 2024

Tutorials

Bielefeld University

2023 - today

- Mathematics (Bachelor level)
- Hidden Markov Models (Master level)
- Statistical Consulting (Master level)
- Generalised Linear Models (Master level)

Bielefeld University of Applied Sciences

2018 - 2020

- Statistics for Economists (Bachelor level)
- Mathematics for Economists (Bachelor level)

GRANTS AND AWARDS

German public-private scholarship (Deutschlandstipendium)

2019 - 2020 and 2022 - 2023

Mobility grant of the Bielefeld Graduate School in Theoretical Sciences (BGTS)

PRESENTATIONS

Inference on the state process of periodically inhomogeneous hidden Markov models

Talk at the Young Researchers Workshop of the Center for Statistics, Bielefeld University, Germany, February 2024

Mitigating consequences of the Markov assumption

Poster at the 18. doctoral workshop of the Bielefeld Graduate School of Economics and Management (BiGSEM), Bielefeld University, Germany, December 2023

Mitigating consequences of the Markov assumption

Talk at the Center for Statistics, Bielefeld University, Germany, October 2023

COMMUNITY INVOLVEMENT

Reviewer

- Journal of Computational and Graphical Statistics
- Journal of the Royal Statistical Society Series C

SKILLS

- **Programming:** R (including Rcpp), C++, Python
- Tools: LaTeX, git, SQL
- Languages: German, English

VOLUNTEERING

Member of the student council (Data Science & Statistical Science) Bielefeld University, Germany

2021-2023

Representing the interests of student assistants (SHK-Rat)

2022

Bielefeld University, Germany

Voluntary service 2016-2017

AWO nursery school Werther, Germany