Dr. Svenia Elena Behm

Contact Information

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Research Interests

Spatio-Temporal Modelling, Environmental Data, Applied Statistics and Econometrics, Data Science

Academic Positions

04/2017 - Present	**Research and Teaching Assistant**, Chair of Statistics and Data Analytics (Prof. Dr. Harry Haupt), University of Passau
10/2016 - 03/2017	**Student Assistant**, Chair of Statistics (Prof. Dr. Harry Haupt), University of Passau

Education

04/2017 - 02/2022	**Ph.D. in Statistics and Econometrics**, University of Passau, Final Grade: 1.0 (Summa cum laude)
	Topic: Four essays on statistical modelling of environmental data
	Supervisor: Prof. Dr. Harry Haupt
10/2014 - 02/2017	**M.A. International Economics and Business**, University of Passau and University of Turin, Final Grade: 1.4
10/2010 - 01/2014	**B.Sc. Mathematics**, Karlsruhe Institute of Technology, Final Grade: 1.8

Publications

Wild, M., S. Behm, C. Beck, J. Cyrys, A. Schneider, K. Wolf and H. Haupt (2022), Mapping the time-varying spatial heterogeneity of temperature processes over the urban landscape of Augsburg, Germany. In Urban Climate 43, 101160.
https://doi.org/10.1016/j.uclim.2022.101160

Fritsch, M. and S. Behm (2021), Data for modeling nitrogen dioxide concentration levels across Germany. In Data in Brief 38, 107324.
https://doi.org/10.1016/j.dib.2021.107324

Fritsch, M. and S. Behm (2021), Agglomeration and infrastructure effects in land use regression models for air pollution - Specification, estimation, and interpretations. In Atmospheric Environment 253, 118337.
https://doi.org/10.1016/j.atmosenv.2021.118337

Behm, S. and H. Haupt (2020), Predictability of hourly nitrogen dioxide concentrations. In Ecological Modelling 428, 109076.
https://doi.org/10.1016/j.ecolmodel.2020.109076

Behm, S., H. Haupt and A. Schmid (2018), Spatial detrending revisited: Modelling local trend patterns in NO_2-concentration in Belgium and Germany. In: Spatial Statistics 28, 331-351.
https://doi.org/10.1016/j.spasta.2018.04.004

Workshops and Conferences

10/2019	**Workshop on Statistical Modelling of Environmental Data** in Passau, Germany
10/2019	**22nd Conference of the International Society for Ecological Modelling** in Salzburg, Austria
12/2018	**11th International Conference of the ERCIM WG on Computational and Methodological Statistics** in Pisa, Italy
05/2018	**12th French-Danish Workshop on Spatial Statistics and Image Analysis in Biology** in Aalborg, Denmark
07/2017	**4th Conference on Spatial Statistics** in Lancaster, United Kingdom

Courses Attended

07/2018	**Advanced Summer School in Economics and Econometrics** by Jeffrey S. Racine (McMaster University) in Rethymnon, Crete
02/2018	**BGPE course Advanced Econometrics** by Jeffrey M. Wooldridge (Michigan State University) in Muggendorf, Germany
09/2017	**R Summer School** by Matthias Templ, Alexander Kowarik, Gerhard Nachtmann, Richard Rentrop, Georg Heiler, Fabian Schröder, Peter Filzmoser (organised by Vienna University of Technology and Zurich University of Applied Sciences) in Vorau, Austria
05/2017	**Applied Bayesian Statistics Summer School** by Bruno Sansó (University of California) in Como, Italy

Teaching

10/2019 - 03/2020	**Methods in Econometrics I**, University of Passau, Tutorial (Graduate)
04/2019 - 09/2019	**Introductory Econometrics**, University of Passau, Tutorial (Undergraduate)
	Computational Statistics - Regression in R, University of Passau, Tutorial (Graduate)
	Applied Statistics - Statistical modelling of environmental space-time data, University of Passau, Seminar (Graduate)
10/2018 - 03/2019	**Methods in Econometrics II**, University of Passau, Tutorial (Graduate)
	Methods in Econometrics I, University of Passau, Tutorial (Graduate)
04/2018 - 09/2018	**Introductory Econometrics**, University of Passau, Tutorial (Undergraduate)
10/2017 - 03/2018	**Introduction to Time Series Analysis**, University of Passau, Tutorial (Undergraduate)
04/2015 - 07/2015	**Statistics I**, University of Passau, Tutorial (Undergraduate)
10/2012 - 03/2013	**Introduction to Stochastics**, Karlsruhe Institute of Technology, Tutorial (Undergraduate)
09/2012	**Preliminary Course on Mathematics**, MINT-Kolleg Karlsruhe Institute of Technology, Tutorial (Undergraduate)

GRANTS AND AWARDS

Dissertation Award of Sparda-Bank Ostbayern e.G.

Traveling Grant of the German Statistical Society (DStatG) for the 4th Conference on Spatial Statistics, Lancaster

MEMBERSHIPS

German Statistical Society (DStatG)

Passau, 14 March 2023