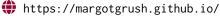
Margarita Grushanina

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burg, Russia).



Employment History

Research Associate for Bayesian Statistics and Causal Inference, Imperial College 2024 – present London, School of Public Health (London, United Kingdom). Economist/Quantitative Analyst, Erste Group Bank AG, Research Department (Vi-2014 - 2024 enna, Austria). Bank Analyst, Erste Group Bank AG, International Business Department (Vienna, 2011 - 2013 Austria). 2007 - 2011 Data Analyst, Erste Group Bank AG, Strategic Risk Management Department (Vienna, Researcher, United Nations Industrial Development Organisation (UNIDO), Strategic 2006 Research and Economics Branch (Vienna, Austria). Intern, United Nations Industrial Development Organisation (UNIDO), Strategic Re-2005 search and Economics Branch (Vienna, Austria).

Education

2004 - 2005

Doctoral programme, Vienna University of Economics and Business. Institute of Quantitative Economics, Institute of Mathematics and Statistics (Vienna, Austria). Advisors: Sylvia Frühwirth-Schnatter and Alfred Stiassny Dissertation: Bayesian Methods for Unsupervised Data Analysis in Application to Data Sets Exhibiting Non-Gaussianity.
 Candidate of Science (equivalent to PhD) in Mathematical Methods in Economics, Saint Petersburg State University (Saint Petersburg, Russia). Advisor: Galina Chernova
 Diploma studies in Mathematical Methods in Economics, Saint Petersburg State University (Saint Petersburg, Russia). Grade: with honors. Advisor: Andrey Kudryavtsev

Schools and Trainings

Jun 2023 Workshop "Causal Inference: Concepts, Tools and Practice", Vienna University of Economics and Business (Vienna, Austria).
 Instructors: Susanne Strohmaier, Michael Kammer (Medical University of Vienna)

 Nov 2021 Tutor-Led Hybrid Training Course "Machine Learning Training for Industry", Mind

Tutor-Led Hybrid Training Course "Machine Learning Training for Industry", Mind Project and Newton Gateway to Mathematics, University of Cambridge (Cambridge, UK). Instructor: Simon Walkowiak (UCL and Mind Project)

Schools and Trainings (continued)

Aug 2018

Summer School "Uncertainty Quantification for PDEs: Numerical Analysis and Scientific Computing", ETH Zürich (Zürich, Switzerland).

Instructors: A. Barth (Uni Stuttgart), A. Cohen, G. Migliorati (Sorbonne), H. Harbrecht (Uni Basel), C. Jerez-Hanckes (PUC Santiago), S. Mishra (ETH Zürich), C. Schwab (ETH Zürich), B. Sudret (ETH Zürich).

Jul 2018

Summer School "Machine Learning Methods and Data Analytics in Risk and Insurance, Vienna University of Technology (Vienna, Austria).

Instructors: Gareth Peters (Heriot-Watt University), Pavel Shevchenko (Macquarie University).

Publications

Preprints

- Grushanina, M. (2023). A Review of Bayesian Methods for Infinite Factorisations. arXiv: 2309.12990
- Grushanina, M., & Frühwirth-Schnatter, S. (2023). Dynamic Mixture of Finite Mixtures of Factor Analysers with Automatic Inference on the Number of Clusters and Factors. Sumbitted to Bayesian Analysis (under review). arXiv: 2307.07045

Conference Proceedings

Grushanina, M., & Frühwirth-Schnatter, S. (2021). Bayesian infinite factor models with non-Gaussian factors. In *JSM Proceedings, International Society for Bayesian Analysis (ISBA) Section* (pp. 396–415). Alexandria, VA: American Statistical Association.

Discussions

Grushanina, M. (2025). Discussion on Sparse Bayesian Factor Analysis When the Number of Factors Is Unknown by S. Frühwirth-Schnatter, D. Hosszejni, and H. F. Lopes., *Bayesian Analysis*, 20(1), pp. 316–318.

Presentations, Conferences and Seminars

Invited Presentations

Dec 2024

Dynamic Mixture of Finite Mixtures of Factor Analysers, 18th International Joint Conference on Computational and Financial Econometrics (CFE) and Computational and Methodological Statistics (CMStatistics) 2024 (London, UK).

Oct 2023

Dynamic Mixture of Finite Mixtures of Factor Analysers with Automatic Inference on the Number of Clusters and Factors, International Day of Women in Statistics and Data Science (IDWSDS) 2023 (virtual).

Dec 2022

Dynamic Mixture of Finite Mixtures of Factor Analysers with Automatic Inference on the Number of Clusters and Factors, 15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics) 2022 (London, UK).

Contributed Presentations

Dec 2023

Dynamic Mixture of Finite Mixtures of Factor Analysers with Automatic Inference on the Number of Clusters and Factors, European Winter Meeting of The Econometric Society (EWMES) 2023 (Manchester, UK).

Presentations, Conferences and Seminars (continued)

Sep 2023 Dynamic Mixture of Finite Mixtures of Factor Analysers with Automatic Inference on the Number of Clusters and Factors, European Seminar on Bayesian Econometrics (ESOBE) 2023 (Glasgow, UK).

Sep 2022 Dynamic Mixture of Finite Mixtures of Factor Analysers with Automatic Inference on the Number of Clusters and Factors, European Seminar on Bayesian Econometrics (ESOBE) 2022, Young Researcher Session (Salzburg, Austria).

Apr 2022 Mixture of Factor Analysers and Adaptive Telescoping Sampler for Automatic Inference on the Number of Clusters and Factors, BNP 2022 Networking Workshop (Nicosia, Cyprus).

Aug 2021 Rayesian Infinite Factor Models with Non-Gaussian Factors, Joint Statistical Meetings 2021 (virtual).

Jul 2021 Rayesian Infinite Factor Models with Non-Gaussian Factors, 2021 ISBA World Meeting (virtual).

Posters

Jul 2024 Dynamic Mixture of Finite Mixtures of Factor Analysers, 2024 ISBA World Meeting (Venice, Italy).

Jun 2022 Mixture of Factor Analysers and Adaptive Telescoping Sampler for Automatic Inference on the Number of Clusters and Factors, 2022 ISBA World Meeting (Montreal, Canada).

Jun 2021 Bayesian Infinite Factor Models with Non-Gaussian Factors, 2021 ISBA World Meeting (virtual).

Seminars

Jan 2025 Dynamic Mixture of Finite Mixtures of Factor Analysers, European University at St. Petersburg (EUSP) Research Seminar (virtual).

Dec 2021 A Bayesian Infinite Factor Models with Non-Gaussian Factors, Center for Econometrics and Business Analytics (CEBA) Research Seminar (virtual).

Teaching

Insurance Mathematics Saint Petersburg State University, WS 2004/2005

Awards and Funding

Jul 2024 **Travel grant**, ISBA 2024 world meeting.

1996-2001 Merit-based scholarship for undergraduate studies awarded by Saint Petersburg State University.

Languages

German | fluent, full proficiency in writing, reading and speaking

French advanced (C1), very confident in reading and writing, slightly less in speaking

Russian native speaker

Computer Skills

R, Python (NumPy, SciPy, sklearn, statsmodels, matplotlib), MATLAB, Stata, Mathematica, Lander R, Python (NumPy, SciPy, sklearn, statsmodels, matplotlib), MATLAB, Stata, Mathematica, Lander R, Python (NumPy, SciPy, sklearn, statsmodels, matplotlib), MATLAB, Stata, Mathematica, Lander R, Python (NumPy, SciPy, sklearn, statsmodels, matplotlib), MATLAB, Stata, Mathematica, Lander R, Python (NumPy, SciPy, sklearn, statsmodels, matplotlib), MATLAB, Stata, Mathematica, Lander R, Lander R

Memberships

Member of the International Society for Bayesian Analysis (ISBA), American Statistical Association (ASA).