Jonas Striaukas

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Research interests

(Robust) statistical learning methods for dependent data, mixed frequency data econometric methods with applications in finance & macroeconomics

Current positions

Marie Skłodowska-Curie Action fellow, April 2023 - April 2025
Assistant professor of statistics, Department of Finance, Copenhagen Business School, October 2022 - present

Education

European Doctoral Program, Université catholique de Louvain, May 2019 - April 2022
Exchange at Universitat Pompeu Fabra, January - April 2022
Visit supervisors: Christian Brownlees & Gábor Lugosi

Ph.D. Economics, Université catholique de Louvain, February 2022
Thesis title: "Estimation and inference for high dimensional mixed frequency data models"
Advisors: Andrii Babii, Eric Ghysels. Committee: Rudy De Winne, Geert Dhaene, Christian M. Hafner

M.A. Quantitative Economics and Finance, University of St. Gallen, 2014

B.Sc. Mathematics, Queen Mary University of London, 2013

Publications

"Machine learning panel data regressions with heavy-tailed dependent data: Theory and application",
with A. Babii, R. T. Ball and E. Ghysels, (2022), *Journal of Econometrics.*
pdf journal

"Machine learning time series regressions with an application to nowcasting",
with A. Babii and E. Ghysels (2022), *Journal of Business & Economic Statistics*, 40, 1094–1106.
pdf journal

"High-dimensional Granger causality tests with an application to VIX and news",
with A. Babii and E. Ghysels, (2022), *Journal of Financial Econometrics.*
pdf journal

"Regularized regression when covariates are linked on a network: The 3CoSE algorithm",
with M. Weber, M. Schumacher and H. Binder, (2022), *Journal of Applied Statistics*, 50(3), 535-554.
pdf journal

Working papers

"Tuning-free testing of factor regression against factor-augmented sparse alternatives"
with J. Beyhum, pdf

"Factor-augmented sparse MIDAS regression for nowcasting" (updated version soon available)
with J. Beyhum, pdf

"Panel data nowcasting: The case of price-earnings ratios"
with A. Babii, R. Ball and E. Ghysels, pdf

Handbook of research methods and applications in macroeconomic forecasting
Chapter: "Econometrics of machine learning methods in economic forecasting"
with A. Babii and E. Ghysels

Work in progress

"Nowcasting and aggregation: The case of EU"
with A. Babii, L. Barbaglia and E. Ghysels

"Tuning parameters for robust learning"

"On high-dimensional inference"
with J. Beyhum

Presentations

- 2023: Bank of Lithuania, Baltic Economic Conference 2023, EcoSta 2023, Compstat 2023, BI Norwegian Business School
- 2022: Aarhus University★; Copenhagen Business School, Netherlands Econometric Study Group Meeting (invited talk), Vienna–Copenhagen Conference on Financial Econometrics, International Association for Applied Econometrics, Sveriges Riskbank "Non-traditional Data, Machine Learning, and Natural Language Processing in Macroeconomics".
- 2021: UNC PhD students econometrics workshop★; 3rd Baltic Economics Conference★; North American Summer Meeting of the Econometric Society★; SoFiE ★; ECB workshop★; European Summer Meeting of the Econometric Society★; CFE (invited talk)★.
- 2020: UC Louvain CORE Brown Bag ×2★; UNC PhD students econometrics workshop★
- 2019: UC Louvain Finance PhD students workshop; Institute of Statistics, Biostatistics and Actuarial Sciences Young Researchers Day; The Winter Meeting of the Annual Lithuanian Conference on Economic Research.
- 2018: 1st QMUL Economics and Finance Workshop for PhD & Post-doctoral Students; UNC Kenan-Flagler Business School; SoFiE summer school Brussels.

Supervisions

PhD co-advisor:

Jan Gabriel Roth (in progress), Wei Miao (in progress)

Master theses:

- 2023: Rasmus Ahlberg, Oliver Bondrop & Nicolai Reimer (ML methods, in progress), Abdullah Ahmed & Minghao Wang (ML/finance, in progress), Jonas Ahooei (ML methods, in progress), Andreas Kjeldsen (ML forecasting, in progress), Caroline Hoff-Jessen (ML forecasting, in progress), Henrik Decker & Adam Ferla (finmetrics, in progress), Kristian Ernst (ML forecasting, in progress)

Awards & Honors

- 2023-25: Marie Skłodowska-Curie grant for ≈230.000 Eur, supervisor Rasmus Tangsgaard Varneskov; website
  Evaluation: top 2 in Denmark/cohort, 100% score.
- 2023: Best PhD thesis award, Bank of Lithuania
- 2022: Member of Danish Statistical Society
- 2022: Euro Area Business Cycle Network lectures, joint with Eric Ghysels and Massimiliano Marcellino★
- 2022-24: F.R.S.-FNRS PDR grant for ≈160.000 Eur, joint with Eric Ghysels and Rudy De Winne
- 2020: SoFiE summer school, NYU/Shanghai, joint with Andrii Babii and Eric Ghysels★
- 2020: SoFiE summer school, University of Chicago, joint with Andrii Babii and Eric Ghysels★
- 2019: CORE lectures series, joint with Anessa Custovic and Eric Ghysels
- 2018-22: F.R.S.-FNRS Aspirant fellowship grant

★ Online conference/seminar/lectures.

Professional service

Reviewer

Journal of Applied Econometrics, Journal of Econometrics, Journal of Financial Econometrics, Journal of Forecasting, Oxford Bulletin of Economics and Statistics, PLoS ONE, Review of Economics and Statistics

Statistical software

R: midasml (CRAN link), LassoNet (CRAN link)

Development code: GitHub

Skills

Fortran, R (and Rcpp), C++, Matlab (and mex), Python, Stata, GitHub, LaTeX

Professional experience

Trainee, National Bank of Belgium, June 2022 - September 2022

Analyst, economist and research assistant, Bank of Lithuania, October 2014 - March 2017