Julia Schaumburg

Contact

Department of Econometrics and Data Science
School of Business and Economics, Vrije Universiteit Amsterdam
De Boelelaan 1105, 1081 HV Amsterdam, The Netherlands
+31 (0)20 59 82653

j.schaumburg@vu.nl
http://juliaschaumburg.com

Current position and affiliations

9/2013–	**Vrije Universiteit Amsterdam** Associate professor of econometrics (since 7/2018) Assistant professor of econometrics (9/2014–6/2018; tenured since 8/2017) Postdoctoral researcher (9/2013-8/2014)
2/2019–	**Halle Institute for Economic Research** Research professor
9/2016–	**Tinbergen Institute** Research fellow
10/2017–	**De Nederlandsche Bank** Visiting researcher

Education

10/2008–2/2013	**Dr. rer. pol. (Ph.D.) in Economics** Chair of Econometrics, Humboldt-Universität zu Berlin
10/2003–9/2008	**Diplom (M.Sc. equivalent) in Economics** Universität Mannheim
8/2007–12/2007	**Visiting Student** National University of Singapore

Research interests

Time series and financial econometrics, statistical learning, econometric analysis of high-dimensional data, financial stability, macro-financial spillovers, climate econometrics.

Grants and honors

2021–2026	**NWO Vidi research grant (800.000 €)** Title: “Statistical learning over time: closing the gap between time-series econometrics and the statistical learning literature”.
9/2019	**Engle Prize (1.500 US-$)** Prize from Journal of Financial Econometrics for the paper “Beyond dimension two: A test for higher-order tail risk”.
2018–2019	**ECB Lamfalussy research fellow (10.000 €)** Title: “Networking the Yield Curve”.
2016–2018	**NWO Veni research grant (249.000 €)** Title: “The Econometrics of Dynamic Interdependence and the Empirics of Financial Risks, Nonstandard Monetary Policy, and Economic Growth”.

4–5/2017	**External research consultant** European Central Bank, Financial Research, Frankfurt/Main, Germany.
8/2011	**Travel grant awarded by Deutsche Bundesbank (500 €)** Grant to present the paper "Financial Network Systemic Risk Contributions" at the European Meeting of the Econometric Society in Oslo, 2011.

Past employment and appointments

10/2012–8/2013	**Research and teaching assistant** Institute for Empirical Economics, Leibniz University Hannover.
11/2008–9/2012	**Research and teaching assistant** Chair of Econometrics, Humboldt-Universität zu Berlin.

Research output

Publications

Dynamic clustering of multivariate panel data, with Igor Custodio João, André Lucas and Bernd Schwaab. *Journal of Econometrics*, in press.

Dynamic nonparametric clustering of multivariate panel data, with Igor Custodio João (VU), Andre Lucas (VU), and Bernd Schwaab (ECB). TI Discussion Paper No. 21-040/III. *Journal of Financial Econometrics*, in press.

Financial Linkages and Sectoral Business Cycle Synchronization: Evidence from Europe, with Hannes Boehm and Lena Tonzer. *IMF Economic Review*, 70, (2022), pp. 698–734.

Bank business models at zero interest rates with André Lucas and Bernd Schwaab, *Journal of Business & Economic Statistics*, 37(3) (2019), pp. 542-555.

Do negative interest rates make banks less safe? with André Lucas, Federico Nucera, and Bernd Schwaab, *Economics Letters*, 159 (2017), pp. 112-115.

Spillover Dynamics for Systemic Risk Measurement Using Spatial Financial Time Series Models, with Francisco Blasques, Siem Jan Koopman, and André Lucas, *Journal of Econometrics*, 195 (2016), pp. 211–223.

Beyond dimension two: A test for higher-order tail risk, with Carsten Bormann and Melanie Schienle. *Journal of Financial Econometrics*, 14 (2016), pp. 552-580.
Winner of 2019 Engle Prize from the Journal of Financial Econometrics for the best paper by a young author in 2016, 2017 and 2018.

Accounting for Missing Values in Score-Driven Time-Varying Parameter Models, with André Lucas and Anne Opschoor. *Economics Letters*, 148, (2016), pp. 96–98.

Financial Network Systemic Risk Contributions, with Nikolaus Hautsch and Melanie Schienle. *Review of Finance* 19 (2015), pp. 685–738.

Forecasting systemic impact in financial networks, with Nikolaus Hautsch and Melanie Schienle. *International Journal of Forecasting* 30 (2014), pp. 781–794.

Predicting extreme Value at Risk: Nonparametric quantile regression with refinements from extreme value theory. *Computational Statistics & Data Analysis* 56 (2012), pp. 4081-4096.

Working papers

Fire-sale channels, portfolio overlap networks and the credit spread puzzle, with Dieter Wang (World Bank) and Iman van Lelyveld (VU and DNB). DNB Working Paper No. 619. TI Discussion Paper No. 18-100/IV.

Vector autoregressions with dynamic factor coefficients and conditionally heteroskedastic errors, with Paolo Gorgi and Siem Jan Koopman (both VU). TI Discussion Paper No. 21-056/III.

Networking the Yield Curve: Implications for monetary policy, with Tatjana Dahlhaus (Bank of Canada) and Tatevik Sekhposyan (Texas A&M University). ECB Working paper No. 2532.
Winner of a 2018 ECB Lamfalussy Fellowship.

Joint modelling and estimation of global and local cross-sectional dependence in large panels, with Quint Wiersma and Siem Jan Koopman (both VU). TI Discussion Paper No. 21-008/III.

Asset pricing with dynamic peer networks, with Dieter Wang (World Bank). TI Discussion Paper No. 20-023/III.

Ongoing work

Self-driving neural networks for yield curve modelling, with Marcin Zamojski (University of Gothenburg).

A Recursive-Design Residual Block Bootstrap for Semi-Strong GARCH processes, with Eric Beutner and Barend Spanjers.

Growth-at-Risk forecasting using sequence-to-sequence neural networks, with Lukas Hoesch and Sicco Kooiker.

Predicting volatility using optimal combinations of realized measures, with Paolo Gorgi and Rolf Steenmetser.

Popular

Opinie: Samenwerken met Shell past universiteiten nu echt niet meer, joint with Petra Verdonk, Hans Ossebaard and Remco Kort, published in *Trouw* on October 1, 2022.

Ph.D. students

Co-promotor

Dieter Wang (graduation: 2021), joint supervision with I. van Lelyveld.
Dissertation title: Empirical Studies on Financial Stability and Natural Capital.
First placement: World Bank.

Quint Wiersma (since 2019), joint supervision with S.J. Koopman.

Igor Custodio João (since 2020), joint supervision with A. Lucas.

Barend Spanjers (since 2022), joint supervision with E. Beutner.

Committee member

Paolo Gorgi (graduation: 2016)

Jiangyu Ji (graduation: 2015)

Teaching

Lectures and seminars

"Data Science for Executives" (Vrije Universiteit, lecturer, 2022)

"Data Science" MBA in International Business (Vrije Universiteit, lecturer, 2022)

"Econometrics III" (Vrije Universiteit, course coordinator, since 2017)

"Introductory Econometrics for Business and Economics" (Vrije Universiteit, course coordinator, 2019–2020)

”Introduction to Econometrics” (Vrije Universiteit, course coordinator, 2016–2018)

”Econometrics II” (Vrije Universiteit, lecturer, 2015–2016)

”Applied Quantitative Economics” (Vrije Universiteit, course coordinator, 2015–2016)

”Topics in Microeconometric Theory and Applications” (LU Hannover, seminar instructor, 2013)

“Empirische Wirtschaftsforschung” (Empirical Economics) (LU Hannover, lecturer, 2013)

“Econometric Methods” (HU Berlin, exercise sessions, 2009–2012)

“Einführung in die Ökonometrie” (Introduction to Econometrics) (HU Berlin, exercise sessions, 2009–2012)

Theses

Supervision of numerous BSc and MSc theses in Econometrics & Operations Research, as well as MPhil theses at Tinbergen Institute (since 2013).

Teaching qualifications

Seniorkwalificatie onderwijs (Senior teaching qualification), 2022.

Basiskwalificatie onderwijs (Basic teaching qualification), 2017.

Organization, faculty service

Member of program committee Econometrics and Operations Research (2016–2018; since 2021).

Program coordinator B.Sc. and M.Sc. Econometrics and Operations Research (2018–2021).

Coordinator of faculty minor “Applied Econometrics: A Big Data Experience for All” (2016–2021).

Acting program director B.Sc. and M.Sc. Econometrics and Operations Research (12/2018–9/2019).

Academic Activities

Associate editor: International Journal of Forecasting (since 2023), Oxford Open Economics (since 2021).

Memberships: Standing fields committee of econometrics (“Ausschuss für Ökonometrie”) in the German Economic Association (elected member), Society for Financial Econometrics, Econometric Society, German Economic Association, International Association for Applied Econometrics.

Program committee: Econometric Society Winter Meeting 2021, 2022; Society for Financial Econometrics (SoFiE) Annual Conference 2017, 2018, 2019, 2020, 2021, 2022.

Session organizer: Computational and Financial Econometrics conference 2020.

Referee service for Advances in Statistical Analysis, Computational Statistics & Data Analysis, Economics Letters, Empirical Economics, European Journal of Finance, Extremes, International Journal of Forecasting, International Journal of Information Technology & Decision Making, Journal of the American Statistical Association, Journal of Applied Econometrics, Journal of Banking & Finance, Journal of Business & Economic Statistics, Journal of Econometrics, Journal of Economic Dynamics and Control, Journal of Financial Econometrics, Journal of Financial Stability, Journal of International Money and Finance, Journal of Multivariate Analysis, Management Science, Quantitative Finance, Regional Science and Urban Economics, Review of Financial Studies, Risk Journals, Scandinavian Journal of Economics, Statistical Papers.

Seminar and conference presentations

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2023	DSSV-ECDA 2023, Antwerp* (invited); Workshop on Financial Econometrics, Machine Learning, and Big Data, Universitat Pompeu Fabra Barcelona* (invited); Tilburg University*; Econometrics committee annual meeting, Schloss Hasenwinkel* (invited); CREST, Paris.
2022	Virtual Israel Macro Meeting; Tinbergen Econometrics Workshop, Rotterdam (invited); Universität Duisburg-Essen; NBER-NSF Time Series Conference, Boston; Statistische Woche, Münster (invited), ESEM Milano.
2021	Conference in Honor of Fabio Canova, Hydra, Greece; Armenian Economics Association Annual Meeting; IBRN Meeting: Low Interest Rates and International Banking (invited discussion); 13th Annual SoFiE Conference, San Diego; Konstanz University.
2020	Technical University Dortmund, Mathematical Statistics Seminar, Weierstrass Institute Berlin; Standing fields committee of econometrics in the German Economic Association, Schloss Rauischholzhausen (invited).
2019	CFE London (invited); Heidelberg University; George Washington University, D.C.; Bayreuth University; German Economic Association Annual Conference, Leipzig (invited); ESEM Manchester; IAAE Annual Conference, Nicosia; Workshop on Bank Business Models, Cass Business School London (invited discussion).
2018	University of Gothenburg; Conference on "Financial Cycles and Regulation", Deutsche Bundesbank, Frankfurt (invited discussion); TI Dutch Network Economics Day, Amsterdam; Workshop Applied Time Series Econometrics, Federal Reserve St. Louis (invited); IAAE Annual Conference, Montreal; 11th Annual SoFiE Conference, Lugano.
2017	University of Rotterdam; University of Exeter; ECB Workshop Money markets, monetary policy implementation and central bank balance sheets, Frankfurt (invited discussion), HeiKaMEtrics Conference on Financial Econometrics, Heidelberg; ESEM Lisbon; IAAE Annual Conference, Sapporo; EABCN-PWC-EUI Conference: Time-varying models for monetary policy and financial stability, Florence; Society for Nonlinear Dynamics and Econometrics Annual Symposium, Paris; RMSE Meeting, Rotterdam; Risk and Macro Finance Research Seminar, University of Amsterdam.
2016	13th Christmas Meeting of German Economists Abroad, DIW Berlin; De Nederlandsche Bank, Amsterdam; 7th Bundesbank-CFS-ECB Workshop on Macro and Finance, Frankfurt; RiskLab/BoF/ESRB Conference on Systemic Risk Analytics, Helsinki; Karlsruhe Institute of Technology; Workshop Forecasting and Financial Markets, Rotterdam (invited discussion); University of Groningen; Tinbergen Institute, Amsterdam.
2015	RMSE Meeting, Cologne; Banque de France Conference on Endogenous Financial Networks and Equilibrium Dynamics, Paris (invited discussion); SYRTO Conference on Systemic Risk, Amsterdam (invited discussion); Halle Institute for Economic Research; ETH Zurich Risk Center.
2014	German Economic Association Annual Conference, Hamburg; ESEM, Toulouse; IAAE Annual Conference, London; 7th Annual SoFiE Conference, Toronto; Workshop on Dynamic Models driven by the Score of Predictive Likelihoods, La Laguna.
2013	Computational and Financial Econometrics Conference (CFE), London; 2nd Workshop in Applied Economics, NIW Hannover; Vrije Universiteit Amsterdam; Leibniz Universität Hannover.
2012	Computational and Financial Econometrics Conference (CFE), Oviedo; Workshop "Methods and Challenges in Financial Risk Measurement", Kloster Drübeck; Deutsche Bundesbank, Frankfurt/Main; Campus for Finance Research Conference, Vallendar.
2011	Econometric Society European Meeting (ESEM), Oslo; CRC 649 Conference, Motzen; 2nd Humboldt-Copenhagen Conference in Financial Econometrics, Copenhagen.

2010 International Symposion on Econometric Theory and Applications (SETA), Singapore; Netherlands Econometric Study Group Conference, Leuven.

2009 Spring Meeting of Young Economists, Istanbul.