Julia Schaumburg

Contact

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Current position and affiliations

9/2013–	**Vrije Universiteit Amsterdam** Associate professor econometrics (since 7/2018) Assistant professor econometrics (9/2014–6/2018; tenured since 8/2017) Postdoctoral researcher (9/2013-8/2014)
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

Research interests

Time series and financial econometrics, financial stability, macro-financial spillovers, econometric analysis of high-dimensional data, quantile regression.

Grants and awards

4/2018–4/2019	**Lamfalussy research fellow (10.000 €)** Grant from the European Central Bank for the project "Networking the Yield Curve".
1/2016–12/2018	**NWO Veni research grant (249.000 €)** Grant from the Netherlands Organization for Scientific Research for the project "The Econometrics of Dynamic Interdependence and the Empirics of Financial Risks, Nonstandard Monetary Policy, and Economic Growth".
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

4–5/2017	**External research consultant** European Central Bank, Financial Research Division, Frankfurt/Main, Germany.
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

Bank business models at zero interest rates with André Lucas and Bernd Schwaab, *Journal of Business & Economic Statistics*, in press.

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.

Accounting for Missing Values in Score-Driven Time-Varying Parameter Models, with André Lucas and Anne Opschoor. *Economics Letters*, 148, (November 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 (2018), with Dieter Wang and Iman van Lelyveld.

Time-Varying Vector Autoregressive Models with Structural Dynamic Factors (2018), with Paolo Gorgi and Siem Jan Koopman.

Work in progress

Networking the Yield Curve, with Tatjana Dahlhaus and Tatevik Sekhposyan. *Winner of the 2018 Lamfalussy Fellowship.*

Financial Integration and Business Cycle Synchronization, with Hannes Boehm and Lena Tonzer.

Dynamic^2 clustering of high-dimensional multivariate panel data, with Andre Lucas and Bernd Schwaab.

Seminar and conference presentations

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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 Verein für Socialpolitik 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.

Teaching

Lectures and seminars

"Econometrics III" (Vrije Universiteit, lecture, spring 2017, 2018)

"Introduction to Econometrics" (Vrije Universiteit, lecture, fall 2016, 2017, 2018)

"Econometrics II" (Vrije Universiteit, lecture, spring 2015, 2016)

"Applied Quantitative Economics" (Vrije Universiteit, lecture, spring 2015, 2016)

"Topics in Microeconometric Theory and Applications" (LU Hannover, seminar, summer 2013)

"Empirische Wirtschaftsforschung" (Empirical Economics) (LU Hannover, lecture and exercise sessions, summer 2013)

"Econometric Methods" (HU Berlin, exercise sessions, winter 2009/10, 2010/11, 2011/12)

"Einführung in die Ökonometrie" (Introduction to Econometrics) (HU Berlin, exercise sessions, summer 2009, 2010, 2011, 2012)

Teaching coordination, faculty service

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

Coordinator of faculty minor "Applied Econometrics: A Big Data Experience for All" (since 2016).

Member of program committee Econometrics and Operations Research (2016–2018)

Students

Ph.D. students

Daily supervisor: Dieter Wang, since September 2016.

Committee member: Jiangyu Ji, graduated 2015; Paolo Gorgi, graduated 2016.

Master students

Rosalie van der Weide (ongoing) "Assessment of systemic risk contributions of insurance firms using a network-augmented expected shortfall approach".

Josca Keijzer (ongoing) "Filtering dynamic network matrices".

Tom Stals (ongoing) "Dynamic cluster analysis of insurance firms".

Sean Bagcig (ongoing) "Natural interest rates in the Eurozone".

Jasper van den Bosch (ongoing) "Multivariate tail dependence by Peaks Over Threshold modelling".

Tim Bosch (2017) "Estimating multivariate Value at Risk and Expected Shortfall".

Sanne Schimmel (2017) "Brexit and the Dutch interbank network: A case study".

Dieter Wang (2016) "Financial Contagion through Portfolio Overlap and Relationship Lending".

Juan Liu (2016) "Predicting the implied volatility surface using state space methods".

Koen Zandvliet (2015) "Studying the Zero Lower Bound".

Roderick Lucas (2015) "Volatility Anticipation Around Earnings Announcements".

Petra Tomanová (2015) "Measuring Comovements by Univariate and Multivariate Regression Quantiles: Evidence from Europe".

Dóra Ibolya Szabó (2015) "Comparison of estimation methods for time-varying probabilities of default".

Julian Dominik Hagen (2012) "Interconnections of U.S. stock and CDS markets".

Gunawan (2012) "An Empirical Comparison of Backtesting Techniques for Value at Risk".

Carsten Bormann (2011) "Measuring Risks with Multivariate EVT".

Bachelor students

Tevhide Dogan, Nathan van der Lei, Robert Smit, Gillis Kruisselbrink, Edzo Hermans, Josca Keijzer, Stefan Bemelmans, Jasper van den Bosch, Coen Ravesloot, Youri Weesie (all Vrije Universiteit Amsterdam), Lisa Denkmann (LU Hannover), Philipp Burckhardt (HU Berlin).

Academic Activities

Organizer of the Tinbergen Institute Econometrics Seminar (joint with Frank Kleibergen, University of Amsterdam).

Program committee member: Society for Financial Econometrics (SoFiE) Annual Conference 2017, 2018.

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