

CURRICULUM VITAE

PERSONAL INFORMATION

First Name	Roxana-Mihaela
Surname	HALBLEIB
Maiden Name	CHIRIAC
Visiting Address	Chair of Statistics and Econometrics, Institute of Economics University of Freiburg, Rempartstr. 16, 79098 Freiburg, Germany
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Web	https://www.econometrics.uni-freiburg.de/en/staff-members/prof-dr-roxana-halbleib
Google Scholar Profile	https://scholar.google.de/citations?user=DisG2hwAAAAJ&hl=en&oi=sra
Scopus Profile	https://www.scopus.com/authid/detail.uri?authorId=37115571000
Family Status	Married, two children (born in 2012 and 2015)
Citizenship	German, Romanian

ACADEMIC POSITIONS AND

EDUCATION

2024	Visiting Professor, York University, Toronto, Canada
Since 2020	W3 Professor of Statistics and Econometrics at University of Freiburg, Germany
2019 – 2025	Heisenberg Fellow of the German Research Foundation (DFG)
2019 – 2020	Heisenberg Postdocal Researcher, Department of Economics, University of Konstanz, Germany
2011 – 2019	Zukunftskolleg and Margarete von Wrangell Fellow at Chair of Economics and Econometrics, Department of Economics, University of Konstanz, Germany
2012 – 2013, 2015 – 2016	Parental leave (2 years, in total)
2010 – 2011	Postdoctoral Researcher at the European Center for Advanced Research in Economics and Statistics (ECARES), Université libre de Bruxelles, Belgium
2010	Ph. D. (Dr. rer. pol.) in Economics (Summa cum Laude), University of Konstanz, Germany Topic: Financial Econometrics Supervisor: Winfried Pohlmeier
2008 – 2010	Research Fellow at the Centre of Finance and Econometrics (CoFE) and the Chair of Economics and Econometrics, University of Konstanz, Germany
2006 – 2008	Student Assistant at the Chair of Economics and Econometrics, Department of Economics, University of Konstanz, Germany

2005	Master in International Business Economics (Final Grade: Very Good), University of Konstanz, Germany
2002, 2003	Diploma in Economics, "Alexandru Ioan Cuza" University, Iasi, Romania Major in International Transactions and Major in Company Management (Graduation with Distinction)

RESEARCH INTERESTS

Econometrics / Financial Econometrics
Data Science in Finance
Financial Risk Models
High Frequency Financial Data
Intrinsic Time / Stochastic Subordinated Processes
Simulation-based Estimation Methods
High-Dimensional Data Analysis

PEER-REVIEWED PUBLICATIONS

- 'Exploiting the Gap Between Implied and Realized Volatility',
Journal of Derivatives, forthcoming, DOI 10.3905/jod.2024.1.202
(with Javdat Umarov and Eva Luetkebohmert)
- 'Realized Quantiles', 2022, Journal of Business & Economic
Statistics, Volume 40, Issue 3, pages 1346 – 1361 (with Timo
Dimitriadis)
- 'A Latent Factor Model for Forecasting Realized Variances', 2021,
Journal of Financial Econometrics, Volume 19, Issue 5, pages 860
– 909 (with Giorgio Calzolari and Aygul Zagidullina)
- 'Estimating Stable Latent Factor Models by Indirect Inference',
2018, Journal of Econometrics, Volume 205, Issue 1, pages 280 –
301 (with Giorgio Calzolari)
- 'Forecasting Covariance Matrices: A Mixed Approach', 2016,
Journal of Financial Econometrics, Volume 4, Issue 2, pages 383 –
417 (with Valeri Voev)
- 'Estimating GARCH-type Models with Symmetric Stable
Innovations: Indirect Inference versus Maximum Likelihood', 2014,
Computational Statistics and Data Analysis, Volume 76, pages 158
– 171 (with Giorgio Calzolari and Alessandro Parrini)
- 'Improving the Value at Risk Forecasts: Theory and Evidence from
the Financial Crisis', 2012, Journal of Economic Dynamics and
Control, Volume 36, Issue 8, pages 1212 – 1228 (with Winfried
Pohlmeier)
- 'Modelling and Forecasting Multivariate Realized Volatility', 2011,
Journal of Applied Econometrics, Volume 26, pages 922 – 947
(with Valeri Voev)
- 'Forecasting Multivariate Volatility using the VARFIMA Model on
Realized Covariance Cholesky Factors', 2011, Journal of
Economics and Statistics (Jahrbücher für Nationalökonomie und
Statistik), Volume 231, Issue 1, pages 134 – 152 (with Valeri Voev)

OTHER PUBLICATIONS

Roxana Halbleib (2017): 'Messen und Verstehen von Finanzrisiken – Eine Perspektive der Ökonometrie', in *Messen und Verstehen in der Wissenschaft – Interdisziplinäre Ansätze*, Springer Verlag, pages 135-149 (Eds: M. Schweiker, J. Hass, A. Novokhatko and R. Halbleib).

SELECTED WORKING PAPERS

- 'Efficient Estimation of Realized Variance in Time-Changed Diffusion Process' (with Timo Dimitriadis, Jeannine Polivka, Jasper Rennspies, Sina Streicher and Axel Friedrich Wolter)
- 'Sequential Estimation of Multivariate Factor Stochastic Volatility Models' (with Giorgio Calzolari and Christian Mucher)
- 'Association between Climate Indicators and Hay Fever in Children and Adolescents in Freiburg, Germany' (with Trang Dao-Siebel, Jakop Holstiege, Kathrin Graw, Christoph Müller, Andreas Matzarakis and Evelyn Lamy)
- 'Modelling and Forecasting Covariance Matrices: A Simple Model with Stochastic Volatility Latent Factors' (with Giorgio Calzolari)
- 'Bagged Forecast Combination for Tail Risk Measures' (with Ekaterina Kazak and Winfried Pohlmeier)

MANUSCRIPTS

Financial Econometrics, Lecture Notes, University of Konstanz, 2012, (with Ingmar Nolte, Winfried Pohlmeier and Valeri Voev)

GRANTS/PROJECTS

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| 2023 | German Research Foundation (DFG) Research Grant (3 years, approx. 360.000 Euros) |
| 2022 | Fritz Thyssen Foundation grant for organizing the Conference on Intrinsic Time in Finance (approx. 18.000 Euros) |
| 2019 | - Heisenberg-Programme of the German Research Foundation (approx. 600.000 Euros)
- Franco-German University, grant for co-organizing the International Conference and Spring School Quantitative Finance and Financial Econometrics 2019 (approx. 5.000 Euros) |
| 2018 | - Zukunftskolleg, Excellence Initiative, University of Konstanz (approx. 3.000 Euros)
- Graduate School of Decision Sciences, University of Konstanz, grant for co-organizing the International Conference and Summer School Quantitative Finance and Financial Econometrics 2018 (approx. 6.000 Euros) |
| 2017 | WIN-Kolleg of the Heidelberg Academy of Sciences and Humanities, Germany, research project <i>Analyzing, Measuring and Forecasting Financial Risks</i> (approx. 100.000 Euros) |
| 2016 | Internationalization Fund, Excellence Initiative, University of Konstanz, guest lectureship for Professor Giorgio Calzolari from University of Florence, Italy in Winter Term 2016/2017 (approx. 3.000 Euros) |
| 2014 | WIN-Kolleg of the Heidelberg Academy of Sciences and Humanities, research project <i>Analyzing, Measuring and Forecasting</i> |

- Financial Risks by means of High-Frequency Data* (approx. 170.000 Euros)
- 2013 - Zukunftskolleg, Excellence Initiative, University of Konstanz, research project *Modeling, Estimating and Forecasting Risks* (approx. 135.000 Euros)
- Volkswagen Foundation, grant for organizing the *Conference on Indirect Estimation Methods in Finance and Economics* (approx. 25.000 Euros)
- 2012 - Research Grant, Elite Program for Postdoctoral Researchers, Baden-Württemberg Foundation, Germany, project *Estimation and Inference with Simulation-based Techniques: Theory and Application* (approx. 40.000 Euros)
- Research Grant, Young Scholar Fund, Excellence Initiative, University of Konstanz, project *Measuring High Dimensional Financial Risks by means of High Frequency Data* (approx. 17.000 Euros)
- 2011 Margarete von Wrangell Habilitation Program, Ministry of Science and Arts of Baden-Württemberg, research project *Measuring, Modelling and Forecasting Financial Risks by means of High Frequency Data* (approx. 260.000 Euros)

HONOURS, AWARDS AND SCHOLARSHIPS

- 2021 Teaching Prize, Institute of Economics, University of Freiburg
- Since 2021 Member of Econometrics Committee (Ausschuss für Ökonometrie) of the German Economic Association (VfS)
- 2019 Heisenberg Fellow of the German Research Foundation
- 2017 - Wolfgang-Wetzel-Award 2017 of the German Statistical Society
- Invitation to attend the 6th Lindau Nobel Laureate Meeting on Economic Sciences
- 2016 Teaching Prize for Junior Scientists, Department of Economics, University of Konstanz
- 2015 Baden-Württemberg-Zertifikat für Hochschuldidaktik
- Since 2014 WIN Fellow of the Heidelberg Academy of Sciences and Humanities
- 2013 – 2019 Zukunftskolleg Fellowship, University of Konstanz
- 2011 – 2016 Margarete von Wrangell Fellowship from the Ministry of Science and Arts of Baden-Württemberg
- 2011 EADS Dornier Dissertation Award for Outstanding Doctoral Thesis
- 2005 – 2008 Doctoral Scholarship from the German Federal State of Baden-Württemberg (Promotionsstipendium nach dem Landesgraduiertenförderungsgesetz)
- 2005 VEUK Award for Outstanding Foreign Graduation at University of Konstanz
- 2004 – 2005 DAAD Scholarship for studying at University of Konstanz

TEACHING

- Lectures**
- Winter Term 2020/2021, Ökonometrie, Bachelor level, University of Freiburg

2021/2022, 2022/2023, 2023/2024

Winter Term 2020/2021,
2021/2022, 2022/2023

Winter Term 2020/2021,
2021/2022

Summer Term 2020,
2021, 2022, 2023

Summer Term 2020,
2021, 2022

Winter Term 2023/2024

Financial Econometrics, Master level, University of Freiburg

Advanced Topics in Econometrics, Master level, University of
Freiburg

Intermediate Econometrics, Master level, University of Freiburg

Time Series Analysis, Master level, University of Freiburg

Winter Term 2018/2019,
2017/2018, 2016/2017,
2014/2015, 2013/2014,
2011/2012

Summer Term 2017, 2016

Winter Term 2016/2017

Winter Term 2014/2015,
2013/2014, 2011/2012
August 2012

Summer Term 2012

January 2012

Financial Econometrics, Master level, University of Konstanz

Microeconometrics, Master and Doctoral level, University of
Konstanz

Advanced Econometrics, Master level, University of Konstanz

Applied Econometrics, Bachelor level, University of Konstanz

New Methods in Volatility Measurement and Econometric
Approaches to Multivariate Volatility, Doctoral level, Summer School
on Quantitative Risk Management, University of Konstanz
Econometrics 1, Bachelor level, University of Konstanz

Research Methods in Finance, Master level, "Alexandru Ioan Cuza"
University

Seminars

Advances in Empirical Finance, Master level, University of Freiburg

Big Data in Economics and Finance, Master level, University of
Konstanz

Seminar Advances in Empirical Finance, Master level, University of
Konstanz

Seminar in Empirical Finance, Master level, University of Konstanz

Applied Econometrics Project, Master level, University of Konstanz

Applied Econometrics, Bachelor level, University of Konstanz

Research Methods in Empirical Economics, Master level, University
of Konstanz

INVITED TALKS

2023

IAAE Conference, Oslo, Norway

64th ISI World Statistics Congress, Ottawa, Canada

Faculty's Research Seminar, University of Gießen, Germany

Research Seminar, University College Dublin, Ireland

- Research Seminar, University of Giessen, Germany
- 2022 Faculty's Research Seminar, University of Basel, Switzerland
- 2019 Econometric Seminar, Tinbergen Institute Amsterdam, The Netherlands
- Keynote session, Workshop on Modelling Economic and Financial Time Series, University of Carlos III de Madrid, Spain
- 11th Computational Social Science Workshop, ETH Zürich, Switzerland
- 2nd International Conference on Economics and Social Sciences, Bucharest University of Economic Studies, Romania
- Research Colloquium, Leibniz University Hannover, Germany
- 2018 Special Invited Session at the 12th International Conference on Computational and Financial Econometrics, Pisa, Italy
- Frontiers in High-Frequency Financial Econometrics, Pisa, Italy
- 2017 11th International Conference on Computational and Financial Econometrics, London, United Kingdom
- Workshop on Challenges of Modern Economics and Finance: Taking Theory to Data, University of Konstanz
- 6th Workshop on Computational Social Science Konstanz - St. Gallen, Konstanz
- 10th Annual Society for Financial Econometrics (SoFiE) Conference at NYU Stern School of Business, USA
- 2016 10th International Conference on Computational and Financial Econometrics, Seville, Spain
- Computational Methods in Econometrics: A Workshop in Honour of Giorgio Calzolari, University of Florence, Italy
- Workshop on Applied Statistics, Dresden University of Technology, Germany
- 2015 9th International Conference on Computational and Financial Econometrics, London, United Kingdom (presentation by co-author)
- 2014 8th International Conference on Computational and Financial Econometrics, Pisa, Italy
- 2012 6th International Conference on Computational and Financial Econometrics, Oviendo, Spain (presentation by co-author)
- Econometrics Seminar, University of Augsburg, Germany
- 2011 5th International Conference on Computational and Financial Econometrics, London, United Kingdom
- Macro and Financial Econometrics Conference, Heidelberg University, Germany
- WBS Frontiers of Finance 2011, Warwick Business School, United Kingdom
- International Symposium on Forecasting, Prague, Czech Republic
- Econometrics Seminar, Università degli Studi di Salerno, Italy
- Econometrics Seminar, CORE, Université Catholique de Louvain, Belgium
- 2010 4th International Conference on Computational and Financial Econometrics, London, United Kingdom

- Conference on Quantifying and Understanding Dysfunctions in Financial Markets, Leuven, Belgium
 Research Seminar, Center for Research in Econometric Analysis of Time Series (CREATES), Aarhus University, Denmark
 2009 Research Seminar, University of Navarra, Pamplona, Spain

SELECTED PRESENTATIONS

- 2022 Annual Meeting of the German Economic Association, Basel, Switzerland
 16th International Conference on Computational and Financial Econometrics, London, UK
 2020 Seminar in Econometrics, ETH, Switzerland
 2019 12th Annual Society for Financial Econometrics (SoFiE) Conference at Fudan University, Shanghai, China (Presentation and Poster Session)
 2018 9th CEQURA Conference on Advances in Financial and Insurance Risk Management, Munich, Germany
 Conference on Decision Sciences, Konstanz, Germany
 Financial Econometrics Conference: Market Microstructure, Limit Order Books and Derivative Markets, Lancaster, UK
 German Statistical Week, Linz, Austria
 Annual Meeting of the German Economic Association, University of Freiburg, Germany
 11th Annual Society for Financial Econometrics (SoFiE) Conference at University of Lugano, Switzerland (Presentation and Poster Session)
 Quantitative Finance and Financial Econometrics, Marseille, France
 2017 German Statistical Week, Rostock, Germany
 2016 German Statistical Week, Augsburg, Germany
 2014 Conference on Indirect Estimation Methods in Finance and Economics, Hegne, Lake Constance, Germany
 2012 Rimini Quantitative Finance Workshop, The Rimini Centre for Econometric Analysis, Rimini, Italy
 DFH Workshop Applied Econometrics, Königsfeld, Germany
 2011 Interdisciplinary workshop on "Econometric and statistical modelling of multivariate time series", Center for Operations Research and Econometrics (CORE), Université Catholique de Louvain, Belgium (Poster Session)
 2nd Humboldt-Copenhagen Conference in Financial Econometrics, Copenhagen, Denmark
 7th International Symposium on Econometric Theory and Applications (SETA), Melbourne, Australia
 One day Conference on Latest Developments in Financial Econometrics, Brussels, Belgium
 2010 First DEXIA & SBS-EM Workshop in Quantitative Finance, ECARES, Université libre de Bruxelles, Belgium
 2009 Society of Financial Econometrics (SoFiE) Conference, Geneva, Switzerland (Poster Session)
 Pentecost Meeting of the German Statistical Society, Merseburg, Germany

- Recent Developments in Financial Econometrics, Humboldt-Copenhagen Conference, Berlin (Poster Session)
- 2008 International Conference on Price, Liquidity and Credit Risks, Konstanz, Germany
- European Meeting of the Econometric Society and Annual Congress of the European Economic Association (ESEM-EEA), Milan, Italy
- 2007 Multivariate Volatility Models Conference, Faro, Portugal
- European Meeting of the Econometric Society and Annual Congress of the European Economic Association (ESEM-EEA), Budapest, Hungary
- 2006 Multivariate Modelling in Finance and Risk Management, Sandbjerg, Denmark
- International Conference of High Frequency Finance, Konstanz, Germany (Poster Session)

REFEREEING

Advances in Statistical Analysis (AStA), Bulletin of Economic Research, Computational Statistics and Data Analysis, Econometrics, Econometrics and Statistics, European Journal of Finance, German Research Foundation (DFG), International Journal of Forecasting, Journal of the American Statistical Association, Journal of Applied Econometrics, Journal of Applied Statistics, Journal of Business & Economic Statistics, Journal of Econometrics, Journal of Economic Dynamics and Control, Journal of Empirical Finance, Journal of Financial Econometrics, Journal of Risk, Journal of Statistical Computation and Simulation, Mathematics and Computers in Simulation, Quantitative Finance, Research Foundation Luxembourg, Research Grants Council of Hong Kong, Statistical Papers, Statistics

EDITORIAL ACTIVITIES

- 2024 Guest co-editor of the Themed Issue with the title 'New Perspectives in High-Frequency Financial Econometrics' in the *Journal of Econometrics* (with I. Nolte, C. Gouriéroux, G. Tauchen, T. Andersen, and V. Todorov)
- 2023 – Associate Editor of *Journal of Economics and Statistics (Jahrbücher für Nationalökonomie und Statistik)*
- 2021 – Associate Editor of *AStA Advances in Statistical Analysis*
- 2018 Guest co-editor of the Special Issue with the title 'Indirect Estimation Methods in Finance and Economics' in the *Journal of Econometrics* (with D. Kristensen, E. Renault and D. Veredas)
- 2017 Co-editor of the anthology *Messen und Verstehen in der Wissenschaft – Interdisziplinäre Ansätze* (in English: *Measuring and Understanding in Science – Interdisciplinary Approaches*), Springer Verlag (with M. Schweiker, J. Hass and A. Novokhatko)

ORGANIZATION

- 2024 - Invited session "New developments in financial econometrics" at the 18th International Conference on Computational and Financial Econometrics, London, United Kingdom

- Organised session 'Financial Econometrics' at 26th International Conference on Computational Statistics, Giessen, Germany
- 2022 - Invited session "Latest developments in financial econometrics" at the 16th International Conference on Computational and Financial Econometrics, London, United Kingdom
- Conference Advances in Theoretical and Applied Econometrics, Konstanz, Germany
- Conference on Intrinsic Time in Finance, Allensbach, Germany, <https://www.wiwi.uni-konstanz.de/pohlmeier/conferencesworkshops/conference-on-intrinsic-time-in-finance/> (with W. Pohlmeier)
- Young Researcher Workshop *Big and Smart Data Analysis in Finance*, German Statistical Society, Buchenbach, Germany
- 2021 Invited session "Latest developments in financial econometrics" at the 15th International Conference on Computational and Financial Econometrics, London, United Kingdom
- 2019 - Co-chair of the 13th International Conference on Computational and Financial Econometrics, London, UK
- SINCE 2018 - Yearly International Conference and Spring School: "Quantitative Finance and Financial Econometrics", Marseille, France (with L. Bauwens, E. Girardin, C. Hurlin and S. Laurent)
- 2018 - Invited session "Advances in Time Series and Financial Econometrics" at the 12th International Conference on Computational and Financial Econometrics, Pisa, Italy
- 2017 Invited session "Latest developments in risk modeling and forecasting" at the 11th International Conference on Computational and Financial Econometrics, London, United Kingdom
- 2014 Conference on Indirect Estimation Methods in Finance and Economics, Allensbach, Germany. <https://www.uni-konstanz.de/conference-indirect-methods/> (with D. Veredas)

COMMITTEE MEMBER

University Committee

- 2023 – Deputy of the Equal Opportunities Officer of the University of Freiburg, Germany
- 2022 – Member of the Institutsrat, Department of Economics, University of Freiburg
- 2020 – Member of the Master Examination Board, University of Freiburg, Germany

Referee Committee

- 2023 – Referee for the German Academic Exchange Service (DAAD)

Board Committee

- 2023 – Vice-Chairperson of the Statistics in Finance Committee of the German Statistical Society
- 2020 – 2023 Chairperson of the Statistics in Finance Committee of the German Statistical Society

Program Committee

- 2023 Annual Meeting of the German Economic Association (VfS), Regensburg
- 2019 12th Annual Society for Financial Econometrics (SoFiE) Conference at Fudan University, Shanghai, China
- 2018 11th Annual Society for Financial Econometrics (SoFiE) Conference at University of Lugano, Switzerland
- 2017 10th Annual Society for Financial Econometrics (SoFiE) Conference at NYU Stern School of Business, USA

Selection Committee

- 2023 – German Academic Exchange Service, DAAD
- 2015, 2016 Zukunftskolleg and Marie Curie Fellowship Programms, University of Konstanz

Hiring Committee

- 2024 W3 Professorship for Taxation, Department of Economics, University of Freiburg, Germany
- 2023 W3 Professorship for Microeconomics, Department of Economics, University of Freiburg, Germany
W3 Professorship for Evaluation, Department of Psychology, University of Freiburg, Germany
Alexander-von-Humboldt W3 Professorship for Sustainable Food Economics, University of Freiburg, Germany
Midterm Review of the Tenure Track Assistant Professorship of Finance at the Department of Economics at the University in Copenhagen, Danmark
- 2022 W1 Professorship for Stochastics, Department of Mathematics, University of Freiburg, Germany
- 2021 W1 with Tenure Track Professorship for Financial Accounting and Auditing, Institute of Economics, University of Freiburg, Germany
W1 with Tenure Track Professorship for Public Finance, Institute of Economics, University of Freiburg, Germany
- 2017 W1 Professorship for Labor Economics, Department of Economics, University of Konstanz, Germany
- 2012 W1 Professorship for Political Economy, Department of Economics University of Konstanz, Germany
- 2010 W3 Professorship for International and Monetary Economics, Department of Economics University of Konstanz, Germany

MEMBERSHIP

German Statistical Society, German Economic Association (VfS), WIN-Kolleg of the Heidelberg Academy of Sciences and Humanities, Graduate School of Decision Sciences at University of Konstanz, Centre of Finance and Econometrics (CoFE) at University of Konstanz

DOCTORAL SUPERVISION

Timo Dimitriadis (2019), Christian Mücher (2023)