

# CURRICULUM VITAE OF MARTIN WAGNER

July 19, 2024

## PERSONAL DATA:

Date and Place of Birth: September 2, 1972 in  
Amstetten, Lower Austria  
Nationality: Austria

## LANGUAGES:

German: Mother tongue  
English: Fluent  
French: Intermediate  
Italian: Beginner  
Slovene: Beginner

## CURRENT POSITIONS:

10/2019 – Full Professor of Economics, University of Klagenfurt  
1/2022 – 12/2025 Vice Dean, Faculty of Management, Economics & Law,  
University of Klagenfurt  
10/2019 – Chief Economic Advisor, Bank of Slovenia (part-time  
position); Member of the ESCB Monetary Policy Committee  
and Heads of Research Forum  
10/2011 – Senior Fellow of the Institute for Advanced Studies Vienna  
(Member of the Macroeconomics and Business Cycles Group)

## CURRENT ADDITIONAL AFFILIATIONS:

2019 – Euro Area Business Cycle Network, Member of Steering  
Committee  
2012 – Visiting Professor and Full Professor of Economics, University  
of Ljubljana

## EARLIER POSITIONS, VISTING POSITIONS, AFFILIATIONS:

2/2024 – 6/2024 Simone Veil Fellow, Robert Schuman Centre for Advanced  
Studies, European University Institute, Firenze, Italy  
10/2012 – 9/2019 Full Professor of Econometrics and Statistics, Technical  
University Dortmund [On leave: 10/2017 – 1/2019]

10/2017 – 12/2018	<p>Chief Economist/Executive Director with Full Managerial Responsibility for the Economics/Analysis Sector of the Bank of Slovenia</p> <ul style="list-style-type: none"> <li>• The sector comprised four departments: Analysis and Research (Economics), Financial Stability and Macprudential Policy, Financial Statistics, and International Relations; about 90-95 FTE</li> <li>• Responsibility for all managerial and development tasks for the sector.</li> <li>• Member of the Monetary Policy, Research and Supervision Committees of the Bank of Slovenia</li> <li>• Member of the Monetary Policy Committee and the Heads of Research Committee at the ECB/ESCB level</li> <li>• Member of the Advisory Board and Governance Steering Group of the Center for Excellence in Finance (from 12/2017)</li> <li>• Consultant from 1/2019-9/2019</li> </ul>
10/2014 – 9/2016	External Researcher, Bank of Slovenia
Fall 2014	Visiting Professor Vienna University of Technology
2013 – 2019	Faculty Member, Ruhr Graduate School in Economics
10/2011 – 9/2012	Full Professor of Empirical Economics and Econometrics, University of Graz; Visiting professor: 10/2012-6/2013
4/2011 – 9/2011	Substitute Professor (1/3 position) for Economics, especially Microeconometrics, University of Hamburg
2009 – 2012	Scientific Advisor, Frisch Centre for Economic Research, Oslo
10/2007 – 12/2007	Economist, Short-term appointment, Directorate General Economics, European Central Bank, Frankfurt
4/2007 – 9/2011	Senior Research Economist in the Department of Economics and Finance, Institute for Advanced Studies, Vienna
9/2005 – 3/2007	Assistant Professor in the Department of Economics and Finance, Institute for Advanced Studies, Vienna
1/2005 – 7/2005	Jean Monnet Fellow, Economics Department, European University Institute, Florence
2/2003 – 1/2004	Visiting Research Fellow, Department of Economics, Woodrow Wilson School and Carbon Mitigation Initiative, Princeton University
1/2000 – 8/2005	Assistant Professor in the Department of Economics, University of Bern
9/1998 – 12/1999	Assistant Professor in the Department of Economics and Finance, Institute for Advanced Studies, Vienna

6/1995 – 8/1998      Assistant at the Institute of Econometrics, Operations Research and Systems Theory, Vienna University of Technology

### **EDUCATION AND DEGREES:**

10/1990 – 4/1995      Technical Mathematics (Mathematics for Economics) at the Vienna University of Technology, degree awarded: Dipl.Ing. (supervisor: Prof. Manfred Deistler)

10/1996 – 9/1998      Postgraduate Program in Economics at the Institute for Advanced Studies, Vienna, awarded: Diploma in Economics

3/2000                      Completed doctoral studies at the Vienna University of Technology, degree awarded: Dr. techn. (supervisor: Prof. Werner Ploberger)

7/2007                      Habilitation in Economics, University of Bern, title: Privatdozent (PD), referees: Prof. Manfred Deistler, Prof. Klaus Neusser and Prof. Werner Ploberger

### **AWARDS, HONORS AND OFFERS:**

- “Leistungsstipendium” (Merit scholarship) from Vienna University of Technology (several times)
- Full Scholarship for the Program in Economics, Institute for Advanced Studies Vienna
- Young Economist Award of the Austrian Economic Association (NOeG), 2006
- Gumbel Lecture at the Annual Meeting of the German Statistical Association (Statistische Woche), October 2009
- Morgenstern Award of the Institute for Advanced Studies: December 2011, December 2012
- Offers for Full Professorships: U Konstanz (2007, W3 Statistics and Econometrics), Helmut Schmidt U Hamburg (2007, W3 Statistics and Econometrics), U Hamburg (2010, W3 Economics, especially Microeconometrics), U Graz (2011, Empirical Economics and Econometrics), U Mainz (2011, W3 Statistics), TU Dortmund (2011, W3 Econometrics and Statistics), Karlsruhe Institute of Technology (2012, W3 Econometrics), Maastricht University (2017, Full Professor Econometrics), University of Klagenfurt (2018, Full Professor of Economics), European Business School Oestrich-Winkel (2021, Full Professor of Econometrics)

- Winner of the “Lehrinnovationspreis” (Prize for Innovation in Teaching) of the Faculty of Business, Economics and Social Sciences, TU Dortmund, Fall Semester 2016/17 (for the First Semester Statistics Course)

## **PUBLICATIONS:**

### **Refereed Journals:**

1. Stypka, O., M. Wagner, P. Grabarczyk and R. Kawka (2024): *Cointegrating Polynomial Regression Models: Robustness of Fully Modified OLS*. Forthcoming in: Econometric Theory.
2. Wagner, M. (2023): *Fully Modified Estimation and Inference for Systems of Cointegrating Polynomial Regressions*. Economics Letters **228**, 111186.
3. Wagner, M. and K. Reichold (2023): *Panel Cointegrating Polynomial Regressions: Group-Mean Fully Modified Estimation and Inference*. Econometric Reviews **42**, 358 – 392.
4. Wagner, M. (2023): *Residual Based Cointegration and Non-Cointegration Tests for Cointegrating Polynomial Regressions*. Empirical Economics **65**, 1 – 31.
5. de Jong, R. and M. Wagner (2022): *Panel Cointegrating Polynomial Regression Analysis and the Environmental Kuznets Curve*. Econometrics and Statistics, in press.
6. Reynolds, J., L. Sögner and M. Wagner (2021): *Deviations from Triangular Arbitrage Parity in Foreign Exchange and Bitcoin Markets*. Central European Journal of Economic Modelling and Econometrics **13**, 105 – 146.
7. Knorre, F., M. Wagner and M. Grupe (2021): *Monitoring Cointegrating Polynomial Regressions: Theory and Application to the Environmental Kuznets Curves for Carbon and Sulfur Dioxide Emissions*. Econometrics **9**, 12 (35 pages).
8. Bauer, D., L. Matuschek, P. de Matos Ribeiro and M. Wagner (2020): *A State Space Parameterization for Unit Root Processes: Structure Theory with a Focus on Hypothesis Testing*. Econometrics **8**, 42 (54 pages).
9. Wagner, M., P. Grabarczyk and S.H. Hong (2020): *Fully Modified OLS Estimation and Inference for Seemingly Unrelated Cointegrating Polynomial Regressions and the Environmental Kuznets Curve for Carbon Dioxide Emissions*. Journal of Econometrics **214**, 216 – 255.
10. Stypka, O. and M. Wagner (2019): *The Phillips Unit Root Tests for Polynomials of Integrated Processes Revisited*. Economics Letters **176**, 109 – 113.
11. Wagner, M. and A. Zeileis (2019): *Heterogeneity and Spatial Dependence of Regional Growth in the European Union: A Recursive Partitioning Approach*. German Economic Review **20**, 67 – 82.

12. Grabarczyk, P., M. Wagner, M. Frondel and S. Sommer (2018): *A Cointegrating Polynomial Regression Analysis of the Material Kuznets Curve Hypothesis*. Resources Policy **57**, 236 – 245.
13. Wagner, M. and D. Wied (2017): *Consistent Monitoring of Cointegrating Relationships: The US Housing Market and the Subprime Crisis*. Journal of Time Series Analysis **38**, 960 – 980.
14. Deistler, M. and M. Wagner (2017): *Cointegration in Singular ARMA Models*. Economics Letters **155**, 39 – 42.
15. Wagner, M. and S.H. Hong (2016): *Cointegrating Polynomial Regressions: Fully Modified OLS Estimation and Inference*. Econometric Theory **32**, 1289 – 1315.
16. Wagner, M. (2015): *The Environmental Kuznets Curve, Cointegration and Nonlinearity*. Journal of Applied Econometrics **30**, 948 – 967.
17. Wagner, M. and J. Hlouskova (2015): *Growth Regressions, Principal Components and Frequentist Model Averaging*. Jahrbücher für Nationalökonomie und Statistik **235**, 642 – 662.
18. Pedroni, P., T.J. Vogelsang, M. Wagner and J. Westerlund (2015): *Nonparametric Rank Tests for Non-Stationary Panels*. Journal of Econometrics **185**, 378 – 391.
19. Vogelsang, T.J. and M. Wagner (2014): *Integrated Modified OLS Estimation and Fixed-b Inference for Cointegrating Regressions*. Journal of Econometrics **178**, 741 – 760.
20. Hlouskova, J. and M. Wagner (2013): *The Determinants of Long-Run Economic Growth: A Conceptually and Computationally Simple Approach*. Swiss Journal of Economics and Statistics **149**, 445 – 492.
21. Vogelsang, T.J. and M. Wagner. (2013): *A Fixed-b Perspective on the Phillips-Perron Tests*. Econometric Theory **29**, 609 – 628.
22. Bauer, D. and M. Wagner. (2012): *A State Space Canonical Form for Unit Root Processes*. Econometric Theory **28**, 1313 – 1349.
23. Schneider, U. and M. Wagner. (2012): *Catching Growth Determinants with the Adaptive LASSO*. German Economic Review **13**, 71 – 85.
24. Wagner, M. (2012): *The Phillips Unit Root Tests for Polynomials of Integrated Processes*. Economics Letters **114**, 299 – 303.
25. Wagner, M. (2010): *Cointegration Analysis with State Space Models*. Advances in Statistical Analysis **94**, 273 – 305.

26. Wagner, M. and J. Hlouskova (2010): *The Performance of Panel Cointegration Methods: Results from a Large Scale Simulation Study*. Econometric Reviews **29**, 182 – 223.
27. Hlouskova, J. and M. Wagner (2009): *Finite Sample Correction Factors for Panel Cointegration Tests*. Oxford Bulletin of Economics and Statistics **71**, 851 – 881.
28. Bauer, D. and M. Wagner (2009): *Using Subspace Algorithm Cointegration Analysis: Simulation Performance and Application to the Term Structure*. Computational Statistics and Data Analysis **53**, 1954 – 1973.
29. Hlouskova, J., K. Schmidheiny and M. Wagner (2009): *Multistep Predictions for Multivariate GARCH Models: Closed Form Solution and the Value for Portfolio Management*. Journal of Empirical Finance **16**, 330 – 336.
30. Wagner, M. (2008): *Economic Valuation of Environmental Problems Using the Contingent Valuation Method*. IB Revija **42**, 104 – 112.
31. Wagner, M. (2008): *On PPP, Unit Roots and Panels*. Empirical Economics **35**, 229 – 249.
32. Wagner, M. (2008): *The Carbon Kuznets Curve: A Cloudy Picture Emitted by Bad Econometrics?* Resource and Energy Economics **30**, 388 – 408.
33. Müller-Fürstenberger, G. and M. Wagner (2007): *Exploring the Environmental Kuznets Hypothesis: Theoretical and Econometric Problems*. Ecological Economics **62**, 648 – 660.
34. Hlouskova, J. and M. Wagner (2006): *The Performance of Panel Unit Root and Stationarity Tests: Results from a Large Scale Simulation Study*. Econometric Reviews **25**, 85 – 116.
35. Wagner, M. (2005): *The Balassa-Samuelson Effect in 'East & West': Differences and Similarities*. Jahrbuch für Wirtschaftswissenschaften/Review of Economics **56**, 230 – 248.
36. Bradford, D., R. Fender, S. Shore and M. Wagner (2005): *The Environmental Kuznets Curve: Exploring a Fresh Specification*. Contributions to Economic Analysis and Policy **4**, No.1, Article 5, Berkeley Electronic Press.
37. Wagner, M. and J. Hlouskova (2005): *CEEC Growth Projections: Certainly Necessary and Necessarily Uncertain*. Economics of Transition **13**, 341 – 372.
38. Wagner, M. (2004): *A Comparison of Johansen's, Bierens' and the Subspace Algorithm Method for Cointegration Analysis*. Oxford Bulletin of Economics and Statistics **66**, 399 – 424.
39. Bauer, D. and M. Wagner (2002): *Estimating Cointegrated Systems Using Subspace Algorithms*. Journal of Econometrics **111**, 47 – 84.

40. Böhm, B., A. Gleiss, M. Wagner and D. Ziegler (2002): *Disaggregated Capital Stock Estimation for Austria – Methods, Concepts and Results*. Applied Economics **34**, 23 – 37.
41. Wagner, M. (1998): *Economic Valuation Methods for Environmental Problems, Part I*. IB Revija **32**, 3 – 13.

#### **Other Publications:**

1. Pötscher, B.M., Sögner, L. and M. Wagner (2024): Editor’s Introduction. Special Issue on High-Dimensional Time Series in Macroeconomics and Finance. Econometrics **12**, 6 (2 pages).
2. Wagner, M., Knorre, F. and C. Kopetzky (2024): *Gross Domestic Product, Greenhouse Gas Emissions and Global Warming*. In: Weihs, C., Buschfeld S. and W. Krämer (Eds.): Statistics Today, Springer, Chapter 16, 133 – 140.
3. Kimmich, C., Laa, E., Lappöhn, S., König, T. and M. Wagner (2022): *Energiewende beschleunigen? Engpässe berücksichtigen*. IHS Policy Brief 7/2022.
4. Osbat, C., Sun, Y., and M. Wagner (2022): *Sectoral Exchange Rate Pass-Through in the Euro Area*. SUERF Policy Brief 347.
5. Kimmich, C., Koch, S., König, T., Lappöhn, S., Schnabl, A., Wagner, M. Weyerstraß, K. and H. Zenz (2022): *Abschätzung der wirtschaftlichen Folgen des Kriegs in der Ukraine und der Sanktionen gegen Russland*. IHS Policy Brief 2/2022.
6. Kunst, R.M. and M. Wagner (2020): Editor’s Introduction. Special Volume on Economic Forecasting. Empirical Economics **58**, 1 – 5.
7. Wagner, M. and F. Knorre (2019): *Bruttoinlandsprodukt, Treibhausgase und globale Erderwärmung*. In Krämer, W. and C. Weihs (Eds.): Faszination Statistik, Springer, Chapter 16, 120 – 127.
8. Wagner, M. (2018): *Estimation and Inference for Cointegrating Regressions*. Oxford Research Encyclopedia in Economics and Finance.
9. De Matos Ribeiro, P., L. Matuschek and M. Wagner (2017): Review of: *State-Space Methods for Time Series Analysis: Theory, Applications and Software* by Casals J. et al, Chapman and Hall/CRC, Statistical Papers **58**, 555 – 556.
10. Wagner, M. (2017). Discussion of: *The Quantity of Corporate Credit Rationing with Matched Bank-Firm Data* by Burlon L. et al. In Banerjee, B. and F. Coricelli (Eds.): Crisis, Credit and Resource Misallocation: Evidence from Europe During the Great Recession, CEPR eBook.
11. Aschersleben, P., M. Wagner and D. Wied (2015): *Monitoring Euro Area Real Exchange Rates*. Springer Proceedings in Mathematics and Statistics **122**, 363 –

370.

12. Banerjee, A. and M. Wagner (2009): *Panel Methods to Test for Unit Roots and Cointegration*. In T.C. Mills and K. Patterson (Eds.): Palgrave Handbook of Econometrics – Vol. II, Chapter 13, 632 – 726.
13. Bauer, D. and M. Wagner (2000): *Using Subspace Algorithms for the Analysis of Cointegrated Systems*. In: Proceedings of the 6<sup>th</sup> CEMAPRE Conference, 137 – 150.
14. Bauer, D. and M. Wagner (2000): *Subspace Algorithm Cointegration Analysis – An Application to Interest Rate Data*. In: Proceedings of the 15<sup>th</sup> International Workshop in Statistical Modelling: New Trends in Statistical Modelling, 146 – 151.
15. Deistler, M. and M. Wagner (2000): *On the Structure of Cointegration*. In Dockner, E. et al (Eds.): Optimization, Dynamics and Economic Analysis, Springer Verlag, 2000, 373 – 379.
16. Wagner, M. and M. Deistler, with Erhan, A. and H. Yildiz (1998): *Ökonomische und massenflussbasierte Verfahren zur Bewertung ökologischer Probleme (Economic and Material Flow Based Methods for the Evaluation of Environmental Problems)* published by SUSTAIN (85 pp).
17. Deistler, M. and M. Wagner (1997): *Comment on Herman Bierens: Nonparametric Cointegration Analysis*. In Heij, Ch. et al. (Eds.): System Dynamics in Economics and Finance, John Wiley and Sons, 241 – 243.

#### **WORKING PAPERS AND WORK IN PROGRESS:**

1. Naevdal, E. and M. Wagner: *A Note on the Optimal Speed of Transition: Aghion and Blanchard Revisited*.
2. Veldhuis, S. and M. Wagner: *Integrated Modified Least Squares Estimation and (Fixed-b) Inference for Systems of Cointegrating Multivariate Polynomial Regressions*.
3. Vogelsang, T.J. and M. Wagner: *Integrated Modified OLS Estimation and Fixed-b Inference for Cointegrating Multivariate Polynomial Regressions*.
4. Veldhuis, S. and M. Wagner: *A Fixed-b Perspective on the Phillips-Ouliaris Non-Cointegration Z-Tests*.
5. Reichold, K., M. Wagner, Damjanovic, M. and M. Drenkovska: *Sources and Channels of Nonlinearities and Instabilities of the Phillips Curve: Results for the Euro Area and Its Member States*.
6. Stypka, O. and M. Wagner: *Cointegrating Multivariate Polynomial Regressions: Fully Modified OLS Estimation and Inference*.

7. Sögner, L., J. Reynolds and M. Wagner: *Residual-Based Consistent Bubble Detection*.
8. Knorre, F. and M. Wagner: *Nonparametric Cointegration Analysis of the Environmental Kuznets Curves for Carbon and Sulfur Dioxide Emissions*.
9. Knorre, F. and M. Wagner: *Fully Modified OLS Estimation and Inference for Seemingly Unrelated Cointegrating Polynomial Regressions with Common Integrated Regressors*.
10. Kawka, R., O. Stypka and M. Wagner: *Integrated Modified OLS Estimation and Inference for Seasonally Cointegrating Regressions*.
11. Li, Y., T.J. Vogelsang and M. Wagner: *Integrated Modified OLS Estimation and Fixed-b Inference for Homogenous Cointegrated Panels*.
12. Sögner, L. and M. Wagner: *Fully Modified OLS Estimation and Inference for a System of Spatially Correlated Homogenous Cointegrating Relationships*.
13. Bauer, D., P. de Matos Ribeiro, L. Matuschek and M. Wagner: *Inference on Cointegrating Ranks and Spaces of Multiple Frequency  $I(1)$  Processes: A State Space Approach*.
14. Bauer, D., P. de Matos Ribeiro, L. Matuschek and M. Wagner: *Pseudo Maximum Likelihood Estimation and Inference for Multiple Frequency  $I(1)$  Processes: A State Space Approach*.
15. Bauer, D., P. de Matos Ribeiro, L. Matuschek and M. Wagner: *Pseudo Maximum Likelihood Estimation and Inference for  $I(2)$  Processes: A State Space Approach*.
16. Bauer, D., P. de Matos Ribeiro, L. Matuschek and M. Wagner: *Stochastic Trends and Economic Fluctuations Reconsidered from the State Space*.
17. Veldhuis, S. and M. Wagner: *A Fixed-b Cointegration Test for Cointegrating Polynomial Regression*.
18. Stypka, O. and M. Wagner: *Testing Linear Against Smooth Transition Cointegration*.
19. Sakarya, N., M. Wagner and D. Wied: *Monitoring a Change From Spurious Regression to Cointegration*.
20. Vetter, M., M. Wagner and R. Kawka: *Robust Inference for the Long Run*.
21. Scholz, M. and M. Wagner: *Large Initial Values and Time Series Tests of the Convergence Hypothesis*.
22. Wagner, M. and S. Zeugner: *Model Averaging of Principal Components Augmented Regressions*.

23. Schneider, U. and M. Wagner: *LASSO-Type Estimators with Protected Variables*.
24. Hong, S.H. and M. Wagner: *Fully Modified Estimation of Seemingly Unrelated Nonlinear Cointegration Models*.
25. Wagner, M. and J. Hlouskova: *The Balassa-Samuelson Effect in Western Europe*.
26. Uhrin, G. and M. Wagner: *Enriching Monetary VARs Using Futures Market Data*.

#### **COMPLETED PAPERS NOT CURRENTLY SUBMITTED:**

1. Osbat, C., Y. Sun and M. Wagner: *Sectoral Exchange Rate Pass-Through in the Euro Area*. ECB Working Paper No. 2634 (22 December 2021).
2. Linnemann, L., G. Uhrin and M. Wagner: *Fiscal Shocks and Labor Productivity*.
3. Grabarczyk, P. and M. Wagner: *Integrated Modified OLS Estimation of Cointegrating Polynomial Regressions with an Application to the Environmental Kuznets Curve*.
4. Wagner, M. and J. Hlouskova: *What's Really the Story with this Balassa-Samuelson Effect in the CEECs?*
5. Bauer, D. and M. Wagner: *Autoregressive Approximations of Multiple Frequency I(1) Processes*.
6. Bauer, D. and M. Wagner: *Polynomial Cointegration*.
7. Wagner, M.: *Capital and Goods Market Integration and the Inequality of Nations*.

#### **BOOKS AND BOOK PROJECTS:**

Neusser, K. and M. Wagner (2022): *Zeitreihenanalyse in den Wirtschaftswissenschaften (4. Auflage)*, Springer, 4<sup>th</sup> revised edition.

Wagner, M. (2024+): *Econometrics: The Linear Regression Model*, contract with CRC Press/Taylor and Francis

Neusser, K. and M. Wagner (2024+): *Time Series Econometrics*, 2<sup>nd</sup> revised edition, contract with Springer.

Banerjee, A. and M. Wagner: *The Theory and Practice of the Econometrics of Nonstationary Panels*, book contract with Springer [project dormant]

## **PROJECT REPORTS:**

1. Katz, N., D. Janisch, C. Kaltenecker, E. Kirschner, M. Wagner and K. Reichold (2024): *Prognosemodell Nachtungsvorschau*. Project report for sterreich Werbung.
2. Kluge, J., S. Lappohn, K. Plank, A. Schnabl, M. Wagner, K. Weyerstra, L. Wimmer and H. Zenz (2021): *Austria’s Competitiveness and its Determinants: Concepts, Developments, Relative Performance and Policy Options*. Project report for Jubilumsfonds of the Oesterreichische Nationalbank.
3. Schmidheiny, K. and M. Wagner (2002): *Evaluation von GARCH Modellen in der Portfoliooptimierung (Evaluation of GARCH Models for Portfolio Optimization)*, Report for OLZ and Partners Asset and Liability Management.
4. Institute for Advanced Studies Vienna, several authors (1998 - 2000): Prognose der sterreichischen Wirtschaft (*Forecast of the Austrian Economy*), Five times per year.
5. Grozea-Helmenstein, D., C. Helmenstein, J. Hlouskova, and M. Wagner (2000): *Die relativen Einkommensaussichten der EU Beitrittswerber (The Relative Income Prospects of EU Accession Countries)*, Project Report for the Austrian Ministry of Economic Affairs.
6. Bohm, B., A. Gleiss, D. Ziegler, and M. Wagner (1998): *Kapitalstocke: Theorie, Konzepte und Schatzung: Der private Sektor in sterreich (Capital Stocks: Theory, Concepts and Estimation: The Private Sector in Austria)*, Project Report for STAT (Austrian Statistical Agency), Institute of Econometrics, Operations Research and Systems Theory, Vienna University of Technology.

## **FUNDED RESEARCH PROJECTS AND CONSULTING:**

1. “GLASS – Global Augmented State Space Error Correction Model”. WEAVE project co-funded by Austrian Science Fund (FWF) and German Science Foundation (DFG), joint with Dietmar Bauer, U Bielefeld, Started 2022H2. [Volume: 227.873 for Klagenfurt, Co-PI]
2. “Instability and Nonlinearity of Long-Run Money Demand: Econometric Theory and Empirical Analysis”. Funded by Austrian National Bank Jubilumsfonds, Started 2022H2. [Volume: 249.000, PI]
3. “The Competitiveness of Austria and its Determinants”. Funded by Austrian National Bank Jubilumsfonds, January 2018 – December 2019. [Volume: 199.000, Collaborator and Advisor]
4. “Analyzing and Testing Arbitrage Parities”. Funded by Austrian National Bank Jubilumsfonds, September 2016 – August 2018. [Volume: 85.000, Collaborator]

5. “*Estimation and Inference Theory for (Co-)Integrated Processes in the State Space Framework*”. Funded by German Science Foundation (DFG), joint with Dietmar Bauer, U Bielefeld, December 2015 – June 2020. [Volume: 188.334€ for TU Dortmund, PI]
6. Project Leader in projects A3 (*Dynamic Modelling of Production Technologies*; Co-PI with Christoph Schmidt and Manuel Frondel) and A4 (*Factor Allocation and Pricing with Aggregate Risks on Financial Markets*; Co-PI with Ludger Linnemann) in the Collaborative Research Center 823 (*Sonderforschungsbereich 823*). Funded by German Science Foundation (DFG). [Volume of subprojects in my research group: approx. 400.000€ for second funding period July 2013 – June 2017; approx. 500.000€ for the third funding period July 2017 – June 2021]
7. “*Erweiterungen des IM-OLS Schätzprinzips (Extensions of the IM-OLS Estimation Principle)*”. Funded by Austrian National Bank Jubiläumsfonds, March 2013 – August 2014. [Volume: 106.210€, PI]
8. “*Development of Dynamic OLS Estimation Theory for Nonlinear Cointegrating Relationships with a Special Focus on Environmental Kuznets Curves*”. Funded by Austrian National Bank Jubiläumsfonds, September 2009 – August 2010. [Volume: 75.000€, PI]
9. “*Managing Risk in Climate Change – A Dynamic Perspective*”. Project based at the Frisch Centre for Economic Analysis, Oslo, 2009 – 2012. [Overall project volume about 1 Mio. €, Scientific Advisor and Collaborator]
10. “*Growth and Convergence: Nonlinear but Smooth*” Funded by Austrian National Bank Jubiläumsfonds, January 2006 – December 2008, [Volume: 65.000€, PI]
11. “*The Balassa-Samuelson Effect in the CEECs and its Impact on Growth and Convergence*”. Funded by Austrian National Bank Jubiläumsfonds, July 2002 – December 2003. [Volume: 58.000€]
12. *The Relative Income Prospects of EU Accession Countries*, Project for the Austrian Ministry of Economic Affairs, Vienna, 2000. [Volume: 40.000€]

#### **Smaller projects and involvements:**

13. Developing models for forecasting tourism demand for Austrian tourism regions; in cooperation with Joanneum Research, 2023 – 2024
14. Occasional consultant for the Bank of Slovenia, 2010 – 2013
15. Consultant for the Vienna Institute for International Economic Studies for the Directorate General Regional Policy Project “*Analysis of the main factors of regional growth: An in-depth study of the best and worst performing European regions*”, 2008.
16. Consultant at the European Central Bank for modeling exchange rate pass-through, September 2005 – December 2005.

17. “*Identifying the Wage Setting Behavior in Austria and Slovenia*”, funded by Austrian-Slovenian Friendship Society, 2002.
18. Consulting (on portfolio prediction) for OLZ and Partners Asset and Liability Management, Murten, Switzerland, 2002 – 2004.
19. “*The Macroeconomic Interdependences between Austria and Slovenia*”, funded by Austrian-Slovenian Friendship Society, 2000.
20. *IDEE – Industrial Dynamics and Employment in Europe*, Vienna University of Technology, EU Research Project (University of Nice, University of Siena, Vienna University of Technology), external collaborator, 1999.
21. Consulting (on modeling futures prices) for Market Research, Vienna, 1998 – 1999.
22. “*Capital Stock Estimation for Austria*”, Vienna University of Technology, Project for ÖSTAT (Statistics Austria), 1997 – 1998.
23. “*Methods for Evaluating Ecological Problems*”, Vienna University of Technology, Project for SUSTAIN, 1996.

## **TEACHING:**

### University of Klagenfurt

- Common Body of Knowledge: Macroeconomics, Course for the MSc program Management, Economics, and Data Science, Fall 2023
- Empirical Finance, Course for BSc and MSc programs in Business and Economics, Fall 2020
- Macroeconomics, Course for BSc programs in Business and Economics, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023 (alternating between German and English)
- Economic Policy, Course for BSc program in Business and Economics, Fall 2019, Fall 2020, Fall 2021
- Case Studies in Economics, Course for the BSc and MSc programs in Business and Economics:
  - Money, Banks, Financial Markets and Economic Crises, Spring 2020
  - The Economic Consequences of COVID-19, Fall 2020
  - Entrepreneurship, Innovation and Economic Development, Spring 2021
  - Regional Economic Development, Fall 2021
  - Climate, Environment and the Economy, Spring 2022
  - Inflation, Fall 2022
  - Labor Markets, Spring 2023
  - Globalization and Labor Markets, Fall 2023
- Introduction to Economics (StEOP), Course for BSc program in Business and Economics, Spring 2020, Spring 2021, Spring 2022, Spring 2023 (in German or English)

- Quantitative Methods for Business, Economics and Finance, PhD Course, Spring 2021, Spring 2022
- Time Series Econometrics, BSc/MSc/PhD Course for Mathematics, Business and Economics programs, Spring 2023

#### University of Rijeka

- Panel Data Econometrics, PhD Workshop, September 2021

#### Technical University Dortmund

- Statistics, Course for BSc program in Economics, Business and Social Sciences, Fall 2012, Fall 2013, Fall 2015, Fall 2016
- Econometrics, Course for BSc and MSc program in Statistics, Fall 2012, Fall 2013, Spring 2015, Spring 2016, Spring 2017
- Panel Data Econometrics, Course for MSc program in Statistics and the RGS-Econ PhD program, Spring 2013
- Advanced Econometrics (Panel Data and Microeconometrics), Course for MSc program in Statistics and the RGS-Economics PhD program, Spring 2014, Fall 2015
- Econometrics, Course for MSc program in Economics and Business, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2019
- Seminar in Econometrics, every semester
- PhD Reading Group: Asymptotic Statistics, Spring 2014, Spring 2015, Fall 2015
- Unit Roots and Cointegration, Course for MSc program in Statistics, Spring 2018
- Sampling Theory, Course for MSc program in Statistics, Spring 2019

#### University of Ljubljana

- Intermediate Time Series Econometrics (MSc Course): 1999
- Advanced Time Series Econometrics (PhD course): 1999
- An Introduction to Panel Data Econometrics (MSc Course): 2000
- Introduction to Unit Roots and Cointegration (MSc Course): 2001
- A Primer on VAR Econometrics (MSc Course): 2002, 2004
- Applied Econometrics (MSc Course): 2004, 2005
- Econometrics II (MSc Course): 2006
- Advanced Econometrics (PhD Course): Spring 2009 – 2013, annually Spring 2015 –
- Empirical Methods for Economic Analysis (PhD Summer Course): 2014 – 2017

#### Bank of Slovenia, Ljubljana (In House Training)

- 2010: VAR Econometrics
- 2012: Panel Data Econometrics
- 2013: Topics in Applied Time Series Econometrics
- 2015: Using VAR Models for Monetary Policy Analysis

### Vienna University of Technology

- Macroeconometrics, MSc Course, Fall 2014 (as visiting professor at TU Wien in Fall 2014)
- Exercises and tutorials for: Introduction to Mathematics of Planning, Econometric Models, Operations Research, 1997 – 1998

### CORE - Université Catholique de Louvain

- Advanced Econometrics II: Time Series Econometrics, 2<sup>nd</sup> year MSc Course, March 2014

### University of Graz

- Econometrics I, Course for BSc program in Economics, Fall 2011
- Econometrics II, Course for BSc program in Economics, Spring 2012, Fall 2012
- Seminar in Econometrics, BSc Seminar, Spring 2012, Spring 2013

### Institute for Advanced Studies, Vienna

- Topics in Econometrics: Unit Roots and Cointegration, Course for the joint IHS – Vienna University of Technology MSc Program in Economics, Spring 2017
- Econometrics I, Course for the joint IHS –Vienna University of Technology MSc Program in Economics, Fall 1999, Spring 2006, Spring 2008, Spring 2009
- Econometrics III (Econometrics of Panel Data), Course for the joint IHS –Vienna University of Technology MSc Program in Economics, Fall 2007, Fall 2009, Fall 2011, Spring 2013
- Econometrics IV (Empirical Project), Course for the joint IHS –Vienna University of Technology MSc Program in Economics, Spring 2010, Spring 2011
- Seminar in Econometrics, Seminar in Applied Econometrics, Econometrics Reading Group: several years
- Econometric Research Seminar (Organizer): several years

### Vienna Graduate School of Economics (Joint PhD Program of Viennese Institutions)

- Research Seminar: Econometrics
- Econometrics of Nonstationary Time Series, Spring 2011

### University of Hamburg

- Panel Data Econometrics, Course for the MSc program in Economics, Spring 2011

### University of Zürich

- Panel Data Econometrics, Course in the PhD program in Finance, January 2009

### Vienna Graduate School of Finance (Joint PhD Program of Viennese Institutions)

- Financial Econometrics II: Panel Data Econometrics, 2<sup>nd</sup> Year PhD course, Spring 2007

### University of Konstanz

- Panel Data Econometrics, Course in the PhD program in Economics, Summer 2007

### University of Bern

- Introduction to Macroeconomics, Macroeconomics I, Time Series Analysis I, Time Series Analysis II, Supervision of Master Theses, 2000 – 2004
- Cooperation in Seminar in Empirical Economics and Workshop in Econometrics, 2000 – 2004
- Introduction to Development and Transition Economics, Course in the BSc program in Economics, Summer term 2001
- Development and Transition Economics, Course in the MSc program in Economics, Winter term 2002

### **THESIS SUPERVISION:**

#### Institute for Advanced Studies, Vienna

##### *Diploma thesis:*

- Susanne Winklehner, 1999: How persistent are shocks on the Austrian unemployment rate? A structural VAR approach  
Bich Ha Nguyen, 2010: Cross sectional dependence and PPP

#### Comenius University, Bratislava

##### *MSc thesis:*

- Maria Machnova, 2008: The Balassa-Samuelson effect in the enlarging EU

#### University of Graz

##### *BSc thesis:*

- Klemens Kurtz, 2012: Preisindexentwicklung in der europäischen Währungsunion. Hält die Kaufkraftparität  
Nina Knittel, 2012: Geschlechterspezifische Lohndifferenzen. Eine nähere Betrachtung am Beispiel Österreich  
Stefan Waldenberger, 2012: Inflationsprognose mittels Finanzmarktdaten  
Gabriel Ziegler, 2012: Is there a consumption puzzle in the Eurozone? An Econometric Approach

- Philipp Danninger, 2013: Purchasing Power Parity: Empirical Issues. Analyse der Kaufkraftparität im Euroraum
- Stefan Holl, 2013: Der strukturelle Zusammenhang zwischen Wechselkursen und den Preisen von Roherzeugnissen
- Nicholas Katz, 2013: Probleme der Umwelt-Kuznets-Hypothese: Theorie und Empirie
- Josef Kulmer, 2013: Prognose der österreichischen Arbeitslosigkeit mithilfe von Google Suchanfragen
- Clemens Possnig, 2013: CEEC10 projections: efficiency assessment and further issues
- Christoph Prokop, 2013: Kurzfristprognose der Strompreise am Beispiel des Spotmarkts der EXAA
- Tanja Roschitz, 2013: Der Beweis der Effizienzmarkthypothese anhand der Daten des Austrian Traded Index
- Patrick Ruppig, 2013: Internationale Kapitalflüsse: Eine ökonometrische Analyse des Lucas Paradoxon
- Corina Schwarzl, 2013: Zwillingstudien zum Bildungsertrag: Methoden, Erkenntnisse, Kritik
- Bernhard Siegl, 2013: Colonial impacts on economic growth: Finding relevant growth determinants for former colonies: Periods of independence and former metropolises
- Kevin Tikvic, 2013: Die Beziehung zwischen Wachstumsraten und Schuldenquoten – eine empirische Analyse für Europa
- Cornelia Woller, 2013: Die Neu-Keynesianische Phillipskurve für Österreich: Eine Erweiterung für die offene Volkswirtschaft

### TU Dortmund University

#### *Diploma thesis:*

- Nadege Niamen, 2013: The relationship between health care expenditure and GDP: A panel perspective
- Michele Bieber, 2016: Misspezifikation in nichtlinearen Kointegrationsmodellen

#### *BSc thesis:*

- Philipp Aschersleben, 2013: Eigenschaften von Monitoringprozeduren für Stationarität und Kointegration
- Birte Lüttringhaus, 2014: Hedonische Regressionsanalyse von Mieten in Halver und Schalksmühle
- Thomas Wanner, 2015: Torwahrscheinlichkeiten im Fussball (Zweitbetreuer)
- Collin Leidgeb, 2015: Untersuchung der Kuznetshypothese mit Kointegrationsverfahren
- Maximilian Grupe, 2016: Stationary regressors in cointegrating polynomial regressions
- Karsten Reichold, 2016: On parameter estimation in cointegrating polynomial regressions: Single equation, seemingly unrelated regressions and panel estimators
- Daniel Cordes, 2017: Optimale Schätzung von Ratingmigrationsmatrizen mit Anwendung auf Ratingdaten einer Automobilbank (Zweitbetreuer)

Marie Punsmann, 2020: Specification testing for smooth transition regressions  
Sebastian Veldhuis, 2020: Investigating the stability of long-run money demand with modern time series econometric techniques

*MSc thesis:*

Ann-Christin Wagner, 2014: FM-OLS Schätzung translogfunktionaler Beziehungen  
Simone Wallbaum, 2014: GMM-Schätzer für die Parameter räumlicher MA-Abhängigkeit in Panelregressionsmodellen (Zweitbetreuer)  
Felix Irresberger, 2015: Schätzrisiko bei Value-at-Risk und Expected Shortfall Backtests (Zweitbetreuer)  
Svitlana Levenzon, 2015: Vergleich von Verteilungsregression und Quantilsregression anhand von Lohnverteilungen in den USA (Zweitbetreuer)  
Benjamin Sischka, 2015: Modifikation eines Detektors zur Überwachung von Stationarität und Kointegration (Zweitbetreuer)  
Fabian Knorre, 2016: Measurement of credit rating stability  
Dmitri Bogonos, 2017: IM- and FM-OLS estimation of Translog production functions  
Marco Giese, 2017: Renditeanomalien am deutschen Aktienmarkt (Zweitbetreuer)  
Etienne Theising, 2018: Monitoring cointegration in a system of homogenous cointegrating regressions  
Karsten Reichold, 2018: Cointegrating polynomial regression with an integrated regressor with drift: (Fully modified) OLS estimation and inference  
Maximilian Grupe, 2018: Monitoring cointegrating polynomial regressions  
Adrian Mazurkiewicz, 2020: Nonlinear least squares estimation and smooth transition regressions

*PhD thesis:*

Gabor Uhrin, 2017: In search of Q: Results on identification in structural vector autoregressive models  
Peter Grabarczyk, 2017: Essays on cointegrating polynomial regressions with applications to the EKC  
Oliver Stypka, 2020: Essays on estimation and inference in nonlinear cointegrating regressions  
Lukas Matuschek, 2020: Essays on cointegration analysis in the state space framework  
Patrick de Matos, 2020: Pseudo maximum likelihood estimation of cointegrated multiple frequency I(1) VARMA processes using the state space framework  
Karsten Reichold, 2023: Essays in time series econometrics: nonlinearity and nonstationarity  
Fabian Knorre, 20224\*: Essays on stability, functional form and poolability of nonlinear cointegrating regressions

## University of Ljubljana

### *MSc thesis:*

Mark Pozlep, 2019: The growth effects of rescue packages: details matter

### *PhD thesis:*

Branko Babic, 2024\*: Climate change (policy) impacts on the Slovene financial sector

## University of Klagenfurt

### *BSc thesis:*

Florian Ponholzer, 2022: A descriptive analysis of the cost to income ratio and the common equity tier 1 ratio of selected Austrian and Slovene banks using selected macroeconomic metrics

Markus Köfler, 2023: Construction of annual data sets for the analysis of long-run money demand

Wesley Baumgart, 2024: Monetary policy responses to COVID19

### *PhD thesis:*

Sebastian Veldhuis, 2024\*: The stability and linearity of long-run money demand: Econometric theory and empirical analysis

Alexandros Konstantopoulos, 2025\*: Essays on macroeconom(etr)ics

## Membership in External Dissertation or Exam Committees

Suphi Sen, 2014: Essays in environmental and political economics, Tilburg University

David Preinerstorfer, 2015: Hypothesis testing in regression models with dependent errors: analytical and finite sample results, University of Vienna

Yi Li, 2017: Estimation and inference in cointegrated panels, Michigan State University

Neslihan Sakarya, 2017: Essays in time series econometrics, Ohio State University, Co-Supervisor with Robert M. de Jong

Robert Zorko, ongoing: Essays on corporate credit allocation, University of Ljubljana

## CONFERENCES, WORKSHOPS AND SUMMER SCHOOLS:<sup>1</sup>

### 1994:

1. Second Summer School on Macro Economics, September (3 weeks), Modra/Harmonia, Slovak Republic. (\*)

### 1995:

2. ERNSI<sup>2</sup> Meeting in Oud Poelgeest, Netherlands. (\*)
3. ERNSI Meeting in Padova, Italy. (\*)

### 1997:

4. ECAS – European Courses in Advanced Statistics: Time Series, September, El Escorial, Spain. (\*)

### 1998:

5. ERNSI Meeting in Vienna, Austria.

### 1999:

6. Project LINK Spring Meeting, May, New York, USA. (\*)
7. BMSS Macroeconomics Summer School, UPF, June, Barcelona, Spain. (\*)
8. ESEM Econometric Society European Meeting, September, Santiago de Compostela, Spain.
9. EEA European Economic Association Meeting, September, Santiago de Compostela, Spain.
10. IAES International Atlantic Economic Society Meeting, October, Montreal, Canada. (Two papers presented)
11. Project LINK Autumn Meeting, November, Athens, Greece. (\*)

### 2000:

12. Austrian Economic Association (NOeG) Meeting, May, Vienna, Austria.
13. 6<sup>th</sup> CEMAPRE Conference, June, Lisbon, Portugal.
14. 15<sup>th</sup> International Workshop on Statistical Modelling, July, Bilbao, Spain.
15. Summer Course Study Center Gerzensee: Microeconomics of Banking, Xavier Freixas. (\*)
16. Econometric Society World Congress, August, Seattle, USA.

### 2001:

17. 39<sup>th</sup> East Jour Fix, Austrian National Bank, February, Vienna, Austria.

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<sup>1</sup> (\*) indicates no conference or workshop presentation, e.g. for the Project LINK conferences only the national forecast has to be provided plus some short statement on Austria upon request. In the listed summer schools I have participated as a student or course participant. The list does not include the central banking related workshops and conferences.

<sup>2</sup> ERNSI – European Research Network on System Identification.

18. Meeting of the Econometrics Working Group of the Swiss Society of Economics and Statistics, May, Bern.
19. CEPR Workshop in Transition Economics, June/July, Portoroz, Slovenia.
20. ESEM Econometric Society European Meeting, August, Lausanne, Switzerland.
21. East West Conference of the Austrian National Bank, Vienna, Austria. (\*)
22. ECAS – European Courses in Advanced Statistics: Bayesian Statistics and Financial Econometrics, October, Lugano, Switzerland. (\*)

2002:

23. CEPEA – Convergence in Europe and the Process of Enlargement and Association, June, Nice, France. (\*)
24. Summer Course Study Center Gerzensee: New Economic Geography, Anthony Venables. (\*)
25. ESEM Econometric Society European Meeting, August, Venice, Italy.
26. 1<sup>st</sup> Annual Conference of EMM Network, September, Arona, Italy, *Invited Speaker*.
27. LACEA 2002, October, Madrid, Spain.
28. East-West Conference of the Austrian National Bank, November, Vienna, Austria. (\*)

2003:

29. Macroeconomic Transmission Mechanisms: Empirical Applications and Econometric Methods, January, Schæffergården, Copenhagen, Denmark.
30. 49<sup>th</sup> East Jour Fix of the Austrian National Bank, June, Vienna, Austria.
31. ESEM Econometric Society European Meeting, August, Stockholm, Sweden.
32. EEA European Economic Association Meeting, August, Stockholm, Sweden.
33. 2<sup>nd</sup> Annual Conference of EMM Network, November, Rome, Italy, *Invited Speaker*.

2004:

34. Economic, Econometric and Cross-Disciplinary Aspects of European Union Enlargement, May, Firenze, Italy.
35. First Vienna-Bratislava Economics Meeting, May, Bratislava, Slovakia.
36. ESEM Econometric Society European Meeting, August, Madrid, Spain.
37. 3<sup>rd</sup> Annual Conference of the EMM Network, September, Alghero, Italy, *Invited Speaker*.

2005:

38. 1<sup>st</sup> Italian Congress of Econometrics and Empirical Economics, January, Venice, Italy.
39. Annual Meeting of the Swiss Society of Economics and Statistics, March, Zurich, Switzerland.
40. Meeting of the Christian-August Society, May, Schloss Sulzbach, Germany, *Invited Speaker*.
41. Frontiers in Time Series Analysis, May, Olbia, Italy.
42. Unit Root and Cointegration Testing, September, Faro, Portugal.

2006:

43. New Regional Economics in Central European Economics, March, Vienna, Austria. (\*)
44. Austrian Economic Association (NOeG) Meeting, May, Vienna, Austria. (Recipient of the *Young Economist Award*)
45. Volkswirtschaftliche Tagung der Österreichischen Nationalbank, May, Vienna, Austria. (\*)
46. The Cointegrated VAR Model: Methods and Applications, June, Copenhagen, Denmark.
47. ESEM Econometric Society European Meeting, August, Vienna, Austria.
48. Conference on European Economic Integration, November, Vienna, Austria. (\*)
49. Enlarging the Euro Area, CESifo Workshop, November, Munich, Germany.

2007:

50. 2<sup>nd</sup> Italian Congress of Econometrics and Empirical Economics, January, Rimini, Italy.
51. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) February, Rauschholzhausen, Germany, *Invited Speaker*.
52. International Workshop on Computational and Financial Econometrics, April, Geneva, Switzerland.
53. Austrian Economic Association (NOeG) Meeting, May, Klagenfurt, Austria.
54. Persistence in Economic and Financial Time Series, June, Frankfurt, Germany.
55. ESEM Econometric Society European Meeting, August, Budapest, Hungary.
56. The Interrelation of Cycles and Growth, WIFO, September, Vienna, Austria. (\*)
57. International Trade and Domestic Growth, Oesterreichische Nationalbank, September, Vienna, Austria. (\*)
58. EC<sup>2</sup> Meeting: Recent Advances in Econometric Time Series Analysis, December, Faro, Portugal.

2008:

59. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Economic Association*) February, Rauschholzhausen, Germany. (\*)
60. ETSErn Meeting, June, Frankfurt, Germany.
61. 2<sup>nd</sup> International Workshop on Computational and Financial Econometrics, June, Neuchatel, Switzerland. (Member of Scientific Programme Committee)
62. NBER-NSF Time Series Conference, September, Aarhus, Denmark.
63. ETSErn Meeting, November, Copenhagen, Denmark.

2009:

64. 3<sup>rd</sup> Italian Congress of Econometrics and Empirical Economics, January, Ancona, Italy.

65. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) March, Rauschholzhausen, Germany.
66. NORKLIMA Kick Off Meeting, June, Oslo, Norway.
67. Econometrics, Time Series and Systems Theory: A Conference in Honor of Manfred Deistler, June, Vienna, Austria. (Organizer) (\*)
68. EAERE European Association of Environmental and Resource Economists Annual Conference, June, Amsterdam, Netherlands.
69. 15<sup>th</sup> International Panel Data Conference, July, Bonn, Germany. (Local Organizer)
70. ESEM Econometric Society European Meeting and EEA European Economic Association Meetings, August, Barcelona, Spain.
71. Meeting of the German Economic Association (Verein für Socialpolitik), September, Magdeburg, Germany.
72. Annual Meeting of the German Statistical Association (Statistische Woche), invited to deliver the *Gumbel Lecture*, October, Wuppertal, Germany.
73. 3<sup>rd</sup> International Conference on Computational and Financial Econometrics, October, Limassol, Cyprus. (Member of Scientific Programme Committee)
74. DIW Berlin Macroeconometric Workshop, December, Berlin, Germany. *Invited Keynote Speaker.*

#### 2010:

75. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) March, Rauschholzhausen, Germany.
76. DAGStat 2010, March, Dortmund, Germany.
77. ETSERN Meeting, June, Pamplona, Spain.
78. Meeting of the Swiss Society of Economics and Statistics, June, Fribourg, Switzerland.
79. Annual Meeting of the German Statistical Association (Statistische Woche), September, Nürnberg, Germany.
80. NORKLIMA Workshop, November, Oslo, Norway
81. 37<sup>th</sup> Macromodels International Conference, December, Pultusk, Poland. *Invited Speaker.*
82. 4<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

#### 2011:

83. 4<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Pisa, Italy.
84. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) February, Rauschholzhausen, Germany.
85. Austrian Economic Association (NOeG) Meeting, June, Graz, Austria.
86. Meeting of the Swiss Society of Economics and Statistics, June, Luzern, Switzerland.
87. Annual Meeting of the German Statistical Association (Statistische Woche), Leipzig, September, Germany. *Invited Speaker.*
88. Workshop on Nonlinear Time Series, November, Hannover, Germany.

89. 5<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

2012:

90. ESEM Econometric Society European Meeting, August, Malaga, Spain.

91. 23<sup>rd</sup> (EC)2-Conference, December, Maastricht, Netherlands.

92. 6<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Oviedo, Spain.

2013:

93. 5<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Genova, Italy.

94. 1<sup>st</sup> Vienna Workshop on High Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.

95. ESEM Econometric Society European Meeting, August, Gothenburg, Sweden.

96. Annual Meeting of the German Statistical Association (Statistische Woche), Berlin, September, Germany.

97. 40<sup>th</sup> Anniversary Macromodels International Conference, October, Warsaw, Poland. *Invited Speaker.*

98. 7<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

2014:

99. Meeting of the Swiss Society of Economics and Statistics, April, Bern, Switzerland.

100. Joint SFB823 & SFB649 Workshop, May, Kloster Dürnau, Germany.

101. ESEM Econometric Society European Meeting, August, Toulouse, France.

102. 8<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Pisa, Italy. *Invited Speaker.*

2015:

103. 6<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Salerno, Italy.

104. Stochastic Models, Statistics and Their Applications, February, Wroclaw, Poland. *Invited Speaker.*

105. 2<sup>nd</sup> Vienna Workshop on High-Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.

106. Work Shop on Long Memory and Nonstationarity, May, Frankfurt, Germany.

107. International Association for Applied Econometrics 2015 Annual Conference, June, Thessaloniki, Greece.

108. World Congress of the Econometric Society, August, Montreal, Canada.

109. Annual Meeting of the German Statistical Association (Statistische Woche), September, Hamburg, Germany. *Invited Speaker.*

110. NBER-NSF Time Series Conference, September, Vienna, Austria.

111. 1<sup>st</sup> Policy Research Conference, European Central Banking Network, October, Ljubljana, Slovenia. (Discussant)

112. 9<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

2016:

113. 7<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Messina, Italy.
114. 12<sup>th</sup> German Probability and Stochastic Days, March, Bochum, Germany.
115. International Association for Applied Econometrics 2016 Annual Conference, June, Milano, Italy.
116. ESEM Econometric Society European Meeting, August, Geneva, Switzerland.
117. 2<sup>nd</sup> Policy Research Conference, European Central Banking Network, October, Ljubljana, Slovenia (Discussant)
118. 1<sup>st</sup> Econometric Models of Climate Change Conference, October, Aarhus, Denmark.
119. 10<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Sevilla, Spain.

2017:

120. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) February, Rauischholzhausen, Germany.
121. Austrian Economic Association (NOeG) Meeting, May, Linz, Austria.
122. International Association for Applied Econometrics 2016 Annual Conference, June, Sapporo, Japan.
123. European Meeting of Statisticians, July, Helsinki, Finland.
124. 2<sup>nd</sup> Econometric Models of Climate Change Conference, September, Oxford, UK.
125. 3<sup>rd</sup> Policy Research Conference, European Central Banking Network, September, Ljubljana, Slovenia. (Session chair)
126. 1<sup>st</sup> Workshop of the European Network on Research in Investment, November, Luxemburg. (Discussant)
127. 11<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

2018:

128. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) February, Rauischholzhausen, Germany.
129. 2<sup>nd</sup> Conference New Trends and Developments in Econometrics, June, Ilhavo, Portugal. *Invited Speaker*.
130. NBER/NSF Time Series Conference, September, San Diego, USA.
131. 2018 Asian Regional Forum on Investment Management of Foreign Exchange Reserves, October, Yerevan, Armenia. (Panelist)
132. Research Conference of the Croatian Central Bank, October, Zagreb, Croatia (Panelist)
133. 2<sup>nd</sup> Workshop of the European Network on Research in Investment, November, Luxembourg. (Discussant)

134. 12<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Pisa, Italy.

2019:

135. 8<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Lecce, Italy.
136. 4<sup>th</sup> Vienna Workshop on High-Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.
137. Symposium in Honor of Klaus Neusser, Bern, May, Switzerland.
138. Future of the Euro Area, Czech National Bank-OMFIF Seminar, May, Prague, Czech Republic. (Panelist)
139. International Association for Applied Econometrics 2019 Annual Conference, June, Nicosia, Cyprus.
140. 46<sup>th</sup> Macromodels International Conference, November, Wroclaw, Poland.
141. 3<sup>rd</sup> Workshop of the European Network on Research in Investment, November, Luxembourg. (Discussant)
142. 13<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

2020:

143. 2<sup>nd</sup> Italian Workshop of Econometrics and Empirical Economics, January, Venice, Italy.
144. Austrian Economic Association (NOeG) Meeting, February, Vienna, Austria.
145. Procurement Conference, October, Portoroz, Slovenia. Opening presentation on the economic situation and outlook and round table discussion. (virtual)
146. 14<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK. (virtual)

2021:

147. 9<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Cagliari, Italy. (virtual)
148. Procurement Conference, June, Portoroz, Slovenia. Presentation on the economic situation and outlook and round table discussion.
149. ITISE Conference, July, Gran Canaria, Spain. *Plenary Speaker*.
150. Meeting of the German Economic Association (Verein für Socialpolitik), September, Regensburg, Germany. (virtual)
151. 15<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK. (virtual)

2022:

152. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) April, Hegne, Germany.
153. ITISE Conference, July, Gran Canaria, Spain. *Plenary Speaker*.
154. Austrian Economic Association (NOeG) Meeting, September, Vienna,

Austria.

155. 16<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

2023:

156. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) March/April, Hasenwinkel, Germany.
157. 10<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, May, Cagliari, Italy.
158. ITISE Conference, July, Gran Canaria, Spain. *Plenary Speaker*.
159. ESEM Econometric Society European Meeting, August, Barcelona, Spain.
160. NBER NSF Time Series Conference, September, Montreal, Canada.
161. 2<sup>nd</sup> Annual Conference of the Research Cluster on Climate Change, November, Frankfurt, Germany. Discussant.
162. Workshop on Forecasting in Uncertain Times, IWH Halle, November, Halle, Germany.
163. 16<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Berlin, Germany.

2024:

164. 4<sup>th</sup> Italian Workshop of Econometrics and Empirical Economics, January, Bolzano, Italy.
165. Meeting of the “Ökonometrischer Ausschuss des Vereins für Socialpolitik”, (*Econometrics Study Group of the German Association of Economists*) March, Berlin, Germany. (\*)
166. 26<sup>th</sup> Dynamic Econometrics Conference, April, Oxford, UK. (\*)
167. 6<sup>th</sup> Vienna Workshop on High-Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.
168. Conference on New Trends and Developments in Econometrics, June, Ponta Delgada, Portugal. *Invited Speaker*.
169. The Eighth Conference on the Econometric Models of Climate Change (EMCC VIII), July, Cambridge, UK.

**SEMINARS AND INVITED TALKS:**

From 1996 to 1999: various seminars at the Vienna University of Technology, the Vienna University of Economics and Business Administration and the Institute for Advanced Studies Vienna.

2000: Institute for Advanced Studies Vienna, Vienna University of Technology

2001: Vienna Institute for Comparative Economic Studies (WIIW)

2002: University of Copenhagen

2003: Princeton University, University of Rochester, University of Ljubljana

2004: Institute for Advanced Studies Vienna (2x), Swiss National Bank, University of Bern

- 2005: University of Kiel, European University Institute, Austrian National Bank, Institute for Advanced Studies Vienna, University of Madeira (2x), European Central Bank
- 2006: Comenius University Bratislava, University of Bern, University of Konstanz, University of Maastricht, Austrian Institute for Economic Research (WIFO), Vienna University of Economics and Business Administration
- 2007: University of Oslo, Concordia University Montreal, Williams College (Williamstown, Mass.), Helmut Schmidt University Hamburg, University of Bielefeld, Free University of Berlin, ifo Institute Munich, University of Dortmund
- 2008: Helmut Schmidt University Hamburg, University of Mainz, University of Innsbruck, University of Linz, Universitat Pompeu Fabra (Barcelona), Universitat Autònoma (Barcelona), University of Tübingen, Free University of Amsterdam
- 2009: Joint Vienna Macroeconomics Seminar, University of Ljubljana (2x), University of Giessen
- 2010: Technical University of Dortmund, University of Hamburg, University of Mainz, Bank of Slovenia, Michigan State University, Institute for Advanced Studies Vienna
- 2011: University of Graz (2x), University of Ljubljana, Karlsruhe Institute of Technology
- 2012: Institute for Advanced Studies Vienna, Wegener Center Graz, University of Basel, CORE Louvain, University of Bielefeld, University of Linz
- 2013: University of Graz (2x), Ohio State University, University of Michigan, University of Duisburg-Essen, RWI Essen
- 2014: CREATES (Aarhus University), University of Leipzig, University of Graz, Ohio State University, Humboldt University Berlin
- 2015: University of Bern, University of Ljubljana, CentER-Tilburg University, University of Graz
- 2016: University of Kiel, University of Nürnberg, Mannheim University, Technical University Graz
- 2017: Vienna University of Technology, University of Mallorca, Maastricht University
- 2018: University of Nürnberg, Essex University Business School, Einaudi Institute for Economics and Finance Rome, The Federal Reserve Board Washington DC, The New School New York, University of Graz, University of Klagenfurt
- 2019: University of Vienna, University of Bern, RWI Essen
- 2020: University of Regensburg, University of Passau
- 2021: ESCB Webinar Series on Climate Research (virtual)
- 2022: University of Graz, University of Vienna, Saint Petersburg State University (virtual)
- 2023: Bank of Slovenia & University of Ljubljana, Oesterreichische Nationalbank

Since I have joined the Bank of Slovenia fulltime in 2017 and again more often since I moved to the University of Klagenfurt, partly in conjunction with the position at the Bank of Slovenia, I give general interest public talks (discussions, interviews etc.) related to the economic situation and/or outlook. The above list of conferences and seminars furthermore does not include numerous central bank related conference participations in different policy and central banking fora.

## MEMBERSHIPS:

- Econometric Society
- Verein für Socialpolitik (German Economic Association)
- International Association for Applied Econometrics
- Member of the *Ausschuss für Ökonometrie* (Econometrics Study Group) of the Verein für Socialpolitik, elected 2008.
- Italian Society of Econometrics
- Network member of the European Science Foundation Network: Econometric Methods for the Modeling of Nonstationary Data, Policy Analysis, and Forecasting (EMM)
- Founding member of ETSERN – European Time Series Econometrics Research Network

## EDITORIAL ACTIVITIES:

2010 –	<u>Central European Journal of Economic Modelling and Econometrics</u> ; Associate Editor
2012 –	<u>Empirical Economics</u> ; Editorial Board Member; Co-Editor of Special Volume on Forecasting in 2020
2013 – 2017	<u>Bank i Kredyt (Bank and Credit)</u> ; Member of Scientific Board
2014 –	<u>Our Economy – Journal of Contemporary Issues in Economics and Business</u> ; Editorial Board Member
2017 – 2020	<u>Econometrics</u> ; Editorial Board Member
2020 – 2023	<u>Econometrics</u> ; Co-Editor-in-Chief; Co-Editor of Special Issues on Forecasting (2020-2022) and High-Dimensional Time Series (2022-2023)
2023 –	<u>Bancni Vestnik – The Journal for Money and Banking</u> ; Editorial Board Member
2023 – 2026	<u>German Economic Review</u> ; Managing Editor

## REFEREE ACTIVITY:

### Scientific Journals:

Annals of Operations Research, Applied Stochastic Models in Business and Industry; ASTA Advances in Statistical Analysis; Automatica; Bank of Slovenia Working Paper Series; Bundesbank Discussion Papers; Business Strategy and the Environment; Canadian Journal of Economics; Climatic Change; Communications in Statistics – Theory and Methods, Computational Economics; Computational Statistics and Data Analysis; Control Engineering Practice; ECB Working Paper Series; Ecological Economics; Econometrica; Econometric Reviews; Econometric Theory; Econometrics; Econometrics and Statistics; Econometrics Journal; Economic and Business Review; Economic Inquiry; Economic Modelling; Economic Systems; Economics; Economics Bulletin; Empirica; Empirical Economics; Energy Economics; Energy Journal; Environment and Development Economics; Environment, Development and Sustainability; Environmental and Resource Economics; Focus on European Economic Integration; German Economic Review; Jahrbücher für

Nationalökonomie und Statistik; Journal of Business and Economic Statistics; Journal of Econometrics; Journal of Environmental Economics and Policy; Journal of Environmental Management; Journal of Environmental Planning and Management; Journal of the European Economic Association; Journal of Financial Econometrics; Journal of International Money and Finance; Journal of International Relations and Development; Journal of Multivariate Analysis; Journal of Public Economics; Journal of Statistical Planning and Inference; JRSS B, Journal of Time Series Analysis; Mathematical Population Studies; Metroeconomica; Natural Resources Research; Oesterreichische Nationalbank Working Paper Series; Oxford Bulletin of Economics and Statistics; PNAS Nexus; Portuguese Economic Review; Quantitative Economics; Resource and Energy Economics; Review of Economics and Statistics; Review of Income and Wealth; Review of International Economics; Scandinavian Journal of Statistics, Statistical Papers; Statistical Science, Structural Change and Economic Dynamics; Studies in Nonlinear Dynamics and Econometrics; Sustainability; Swiss Journal of Economics and Statistics; The World Bank Economic Review; Zeitschrift für Wirtschafts- und Sozialwissenschaften

### **Review of Book Proposals:**

CRC Press, Oxford University Press

### **Review of Research Proposals:**

Anniversary Fund of the Oesterreichische Nationalbank, Belgian Science Foundation, German Science Foundation, Grantova Agentura Ceske Republike, Social Sciences and Humanities Research Council of Canada, Fritz Thyssen Foundation, National Science Center of Poland

### **CONFERENCE ORGANIZATION:**

- 2008: Member of the Scientific Programme Committee: 2<sup>nd</sup> International Workshop on Computational and Financial Econometrics, June, Neuchatel, Switzerland.
- 2009: Organizer: Econometrics, Time Series and Systems Theory: A Conference in Honor of Manfred Deistler, June, Vienna, Austria.  
Local Organizer: 15<sup>th</sup> International Panel Data Conference, July, Bonn, Germany.  
Member of the Scientific Programme Committee: 3<sup>rd</sup> International Conference on Computational and Financial Econometrics, October, Limassol, Cyprus.
- 2010: Member of the Scientific Programme Committee: 4<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2011: Member of the Scientific Programme Committee: 5<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2012: Member of the Scientific Programme Committee: 6<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Oviedo, Spain.
- 2013: Member of the Scientific Programme Committee: 1<sup>st</sup> Vienna Workshop on High Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.  
Member of the Scientific Programme Committee: 7<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.

- 2014: Member of the Scientific Programme Committee: 8<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Pisa, Italy.
- 2015: Member of the Scientific Programme Committee: 2<sup>nd</sup> Vienna Workshop on High Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.  
Member of the Scientific Programme Committee: 9<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2016: Member of the Scientific Programme Committee: 10<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Sevilla, Spain.
- 2017: Member of the Scientific Programme Committee: 3<sup>rd</sup> Vienna Workshop on High Dimensional Time Series in Macroeconomics and Finance, June, Vienna, Austria.  
Member of the Scientific Programme Committee: ITISE, September, Granada, Spain.  
Member of the Scientific Programme Committee: 11<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2018: Organizer: 1<sup>st</sup> Vienna Workshop on Forecasting in Economics, Institute for Advanced Studies, February, Vienna, Austria.  
Member of the Scientific Programme Committee: ITISE, September, Granada, Spain.  
Member of the Scientific Programme Committee: 12<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Pisa, Italy.
- 2019: Member of the Scientific Programme Committee: 4<sup>th</sup> Vienna Workshop on High Dimensional Time Series in Macroeconomics and Finance, Vienna, Austria.  
Member of the Scientific Programme Committee: ITISE, September, Granada, Spain.  
Member of the Scientific Programme Committee: 13<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2020: Member of the Scientific Programme Committee: 2<sup>nd</sup> Italian Workshop of Econometrics and Empirical Economics, January, Venice, Italy.  
Local Organizer: Conference on Mechanism and Institution Design 2020, June, Klagenfurt, Austria.  
Organizer: 2<sup>nd</sup> Vienna Workshop on Forecasting in Economics, Institute for Advanced Studies, October, Vienna, Austria.  
Member of the Scientific Programme Committee: 14<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2021: Member of the Scientific Programme Committee: 9<sup>th</sup> Italian Congress of Econometrics and Empirical Economics, January, Cagliari, Italy.  
Member of the Scientific Programme Committee: ITISE, July, Gran Canaria, Spain.  
Co-Chair: 15<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.  
Member of the Scientific Programme Committee: EC<sup>2</sup> Conference, December Aarhus, Denmark.

- 2022: Organizer: 5<sup>th</sup> Vienna Workshop on High-Dimensional Time Series in Macroeconomics and Finance, June, Vienna, Austria.  
Member of the Scientific Programme Committee: Austrian Economic Association (NOeG) Meeting, September, Vienna, Austria.  
Member of the Scientific Programme Committee: 15<sup>th</sup> International Conference on Computational and Financial Econometrics, December, London, UK.
- 2023: Member of the Scientific Programme Committee: ITISE, July, Gran Canaria, Spain.  
Member of the Scientific Programme Committee: 16<sup>th</sup> International Conference on Computational and Financial Econometrics, December, Berlin, Germany.
- 2024: Organizer: 6<sup>th</sup> Vienna Workshop on High-Dimensional Time Series in Macroeconomics and Finance, May, Vienna, Austria.  
Member of the Scientific Programme Committee: IWH Workshop on Forecasting in Times of Structural Change and Uncertainty, June, Halle, Germany.  
Member of the Scientific Programme Committee: ITISE, July, Gran Canaria, Spain.  
Member of the Scientific Programme Committee: Austrian Economic Association (NOeG) Meeting, September, Vienna, Austria.
- 2025: Organizer: 3<sup>rd</sup> Vienna Workshop on Forecasting in Economics, Institute for Advanced Studies, June, Vienna, Austria.

#### **SUMMER SCHOOL ORGANIZATION:**

- 2017: Organizer and Lecturer: 1<sup>st</sup> Dortmund-Bielefeld Summer School on Modern Topics in Time Series Analysis, September, Dortmund, Germany.
- 2019: Organizer and Lecturer: 2<sup>nd</sup> Dortmund-Bielefeld Summer School on Modern Topics in Time Series Analysis, September, Bielefeld, Germany.
- 2022: Organizer and Lecturer: 3<sup>rd</sup> Klagenfurt-Bielefeld Summer School on Modern Topics in Time Series Analysis, September, Klagenfurt, Austria.
- 2024: Organizer and Lecturer: 4<sup>th</sup> Klagenfurt-Bielefeld Summer School on Modern Topics in Time Series Analysis, September, Klagenfurt, Austria.