

Uwe Hassler

Curriculum Vitae and Publications (March 2024)

Personal information

Birth 1963 in Waiblingen (Germany)

Affiliation Goethe University Frankfurt

Position Professor of statistics and econometric methods

Education, services and achievements

- 2022 – Faculty Member at the Vietnamese-German University, Ho Chi Minh City
- 2020 Distinguished Author Award (*Journal of Time Series Analysis*)
- 2014 – 15 Opus magnum grant (VolkswagenStiftung)
- 2009 – 21 Associate editor of *Advances in Statistical Analysis (AStA)*
- 2009 – 13 Chairman of the Committee for Econometrics of the “Association of German Speaking Economists” (Verein für Socialpolitik)
- 2007 Offer of full professorship of econometrics at Freie Universität Berlin (declined)
- 2005 – 13 Research professor at the “Centre for European Economic Research”, Mannheim
- 2004 – 08 Chairman of the Committee for Statistical Methods (German Statistical Society)
- 2003 – Full professor of statistics and econometric methods, Goethe-Universität Frankfurt
- 2002 – 03 Associate professor of empirical economics and macroeconometrics, TU Darmstadt
- 2001 Offer of full professorship of econometrics, Universität Münster (declined)
- 1999/00 Visiting professor, Ludwig-Maximilians-Universität München
- 1999 Visiting professor, Universidad Carlos III de Madrid
- 1994 – 01 Assistant professor at Freie Universität (FU) Berlin
- 1993 Doctoral degree at FU Berlin
- 1989 Diploma (about Master degree) in economics, FU Berlin
- 1986 Pre-diploma (about Bachelor degree) in mathematics, FU Berlin

Books

1. *Time Series Analysis with Long Memory in View*, Wiley (Series in Probability and Statistics), 2019.
2. *Stochastic Processes and Calculus: An Elementary Introduction with Applications*, Springer, 2016.
3. *Introduction to Modern Time Series Analysis* (with G. Kirchgässner and J. Wolters), Springer, 2013.

10 selected papers

- 2020 “Harmonically Weighted Processes”, *Journal of Time Series Analysis* 41, 41-66 (with M. Hosseinkouchack).
- 2019 “Ratio Tests under Limiting Normality”, *Econometric Reviews* 38, 793-813 (with M. Hosseinkouchack).
- 2016 “(When) Do Long Autoregressions Account for Neglected Changes in Parameters?”, *Econometric Theory* 32, 1317-1348 (with M. Demetrescu).
- 2011 “Estimation of Fractional Integration under Temporal Aggregation”, *Journal of Econometrics* 162, 240-247.
- 2010 “Impulse Responses of Fractionally Integrated Processes with Long Memory”, *Econometric Theory* 26, 1855-1861 (with P. Kokoszka).
- 2009 “Testing for General Fractional Integration in the Time Domain”, *Econometric Theory* 25, 1793-1828 (with P.M.M. Rodrigues and A. Rubia).
- 2008 “Long Memory Testing in the Time Domain”, *Econometric Theory* 24, 176-215 (with M. Demetrescu and V. Kuzin).
- 2006 “Residual Log-Periodogram Inference for Long-run Relationships”, *Journal of Econometrics* 130, 165 - 207 (with F. Marmol and C. Velasco).
- 2006 “A Residual-Based LM Type Test Against Fractional Cointegration”, *Econometric Theory* 22, 1091-1111 (with J. Breitung).
- 2002 “Inference on the Cointegration Rank in Fractionally Integrated Processes”, *Journal of Econometrics* 110, 167-185 (with J. Breitung).

Further papers in refereed journals

1. “Forecasting under Long Memory”, *Journal of Financial Econometrics* 21 (2023), 742 – 778 (with Marc-Oliver Pohle).
2. “Perfect Numbers”, *Euleriana* 3 (2023), 176 - 185.
3. “From fact to fake: The importance of being significant”, *Research in Statistics* 1 (2023), <https://doi.org/10.1080/27684520.2023.2236995>.
4. “Powerful Self-normalizing Tests for Stationarity against the Alternative of a Unit Root”, *Advances in Econometrics* 45A (2023), 97 - 114 (with Mehdi Hosseinkouchack).
5. “Joint Hypothesis Testing from Heterogeneous Samples under Cross-dependence”, *Econometrics and Statistics* (2022), <https://doi.org/10.1016/j.ecosta.2022.07.004> (with Mehdi Hosseinkouchack).
6. “How Large Should the Sample Size Be?”; *Journal of Econometrics and Statistics* 2 (2022), 219 - 232.
7. “Unlucky Number 13? Manipulating Evidence Subject to Snooping”, *International Statistical Review* 90 (2022), 397 – 410 (with Marc-Oliver Pohle).
8. “Basel Problem: Historical perspective and further proofs from stochastic processes”, *Euleriana* 2 (2022), 120 – 130 (with Mehdi Hosseinkouchack).
9. “Understanding Nonsense Correlation between (Independent) Random Walks in Finite Samples”, *Statistical Papers* 63 (2022), 181 - 195 (with Mehdi Hosseinkouchack).
10. “Estimating the Mean Under Strong Persistence”, *Economics Letters* 188 (2020), doi.org/10.1016/j.econlet.2020.108950 (with Mehdi Hosseinkouchack).
11. “Whittle-type Estimation under Long Memory and Nonstationarity”, *Advances in Statistical Analysis* 104 (2020), 363 - 383 (with Ying Lun Cheung).
12. “Note on Sample Quantiles for Ordinal Data”, *Statistical Papers* 61 (2020), 2383 - 2391.
13. “Testing the Newcomb-Benford Law: experimental evidence”, *Applied Economics Letters* 26 (2019), 1762-1769 (with Mehdi Hosseinkouchack).
14. “Ergodic for the Mean”, *Economics Letters* 151 (2017), 75-78.
15. “Powerful Unit Root Tests Free of Nuisance Parameters”, *Journal of Time Series Analysis* 37 (2016), 533-554 (with Mehdi Hosseinkouchack).

16. "Quantile Regression for Long Memory Testing: A case of Realized Volatility", *Journal of Financial Econometrics* 14 (2016), 693-724 (with Paulo M.M. Rodrigues and Antonio Rubia).
17. "Panel Cointegration Testing in the Presence of Linear Time Trends", *Econometrics* 4 (2016), 1-45 (with M. Hosseinkouchack).
18. "Persistence in the Banking Industry: Fractional Integration and Breaks in Memory", *Journal of Empirical Finance* 29 (2014), 95-112 (with P.M.M. Rodrigues and A. Rubia).
19. "Effect of the Order of Fractional Integration on Impulse Responses", *Economics Letters* 125 (2014), 311-314 (with M. Hosseinkouchack).
20. "Persistence under Temporal Aggregation and Differencing", *Economics Letters* 124 (2014), 318-322.
21. "Multiple Comparisons and Joint Significance in Panel Unit Root Testing with Evidence on International Interest Rate Linkage", *Journal of Economics and Statistics* 234 (2014), 23-43 (with V. Werkmann).
22. "Detecting Multiple Breaks in Long Memory: The case of U.S. inflation", *Empirical Economics* 46 (2014), 653-680 (with B. Meller).
23. "Temporal Aggregation of Multiple Time Series in the Frequency Domain", *Journal of Time Series Analysis* 34 (2013), 562-573.
24. "Asymptotic Behavior of Temporal Aggregates in the Frequency Domain", *Journal of Time Series Econometrics* 5 (2013), 47-60 (with H. Tsai).
25. "Semiparametric Inference and Bandwidth Choice under Long Memory: experimental evidence", *ISTATISTIK* 6 (2013), 27-41 (with M. Olivares).
26. "Impulse Responses of Antipersistent Processes", *Economics Letters* 116 (2012), 454-456.
27. "Pitfalls of Post-Model-Selection Testing: Experimental quantification", *Empirical Economics* 40 (2011), 359-372 (with M. Demetrescu and V. Kuzin).
28. "Asymptotic Normal Tests for Integration in Panels with Cross-Dependent Units", *Advances in Statistical Analysis* 95 (2011), 187-204 (with M. Demetrescu and A. Tarcolea).
29. "Detecting Changes from Short to Long Memory", *Statistical Papers* 52 (2011), 847-870 (with J. Scheithauer).
30. "Testing Regression Coefficients after Model Selection through Sign Restrictions", *Economics Letters* 107 (2010), 220-223.

31. "Testing for Stationarity in Large Panels with Cross-Dependence, and US Evidence on Unit Labor Cost", *Journal of Applied Statistics* 37 (2010), 1381-1397 (with M. Demetrescu and A. Tarcolea).
32. "Hysteresis in Unemployment Rates? A Comparison between Germany and the US", *Journal of Economics and Statistics* 229 (2009), 119-129 (with J. Wolters).
33. "Cointegration Analysis under Measurement Errors" in: *Advances in Econometrics, Vol. 24: Measurement Error - Econometrics and Practice* (2009) edited by Jane Binner, David Edgerton, and Thomas Elger (with V. Kuzin).
34. "On Critical Values of Tests against a Change in Persistence", *Oxford Bulletin of Economics and Statistics* 70 (2008), 705-710 (with J. Scheithauer).
35. "Fractional Cointegration in the Presence of Linear Trends", *Journal of Time Series Analysis* 29 (2008), 1088-1103 (with F. Marmol and C. Velasco).
36. "On the Persistence of the Eonia Spread", *Economics Letters* 101 (2008), 184-187 (with D. Nautz).
37. "Comment on 'Long-Run Relationships Between Labor and Capital: Indirect Evidence on the Elasticity of Substitution' ", *Journal of Macroeconomics* 30 (2008), 757-759.
38. "Multicointegration under Measurement Errors", *Economics Letters* 96 (2007), 38-44.
39. "Effect of Neglected Deterministic Seasonality on Unit Root Tests", *Statistical Papers* 48 (2007), 385-402 (with M. Demetrescu).
40. "Combining Significance of Correlated Statistics with Application to Panel Data", *Oxford Bulletin of Economics and Statistics* 68 (2006), 647-663 (with M. Demetrescu and A. Tarcolea).
41. "A Note on Phillips-Perron-type Statistics for Cointegration Testing", *Economics Bulletin* 3 (2006), 1-7.
42. "Unit Root Testing", *Allgemeines Statistisches Archiv* 90 (2006), 43-58 (with J. Wolters).
43. "Autoregressive Distributed Lag Models and Cointegration", *Allgemeines Statistisches Archiv* 90 (2006), 59-74 (with J. Wolters).
44. "Combining Multi-country Evidence on Unit Roots: The Case of Long-term Interest Rates", *Applied Economics Quarterly* 51 (2005), 181-189 (with A.-I. Tarcolea)
45. "Spurious Persistence and Unit Roots due to Seasonal Differencing: The Case of Inflation Rates" *Journal of Economics and Statistics* 225 (2005), 413-426 (with M. Demetrescu).

46. "Seasonal Unit Root Tests under Structural Breaks", *Journal of Time Series Analysis* 25 (2004), 33-53 (with P.M.M. Rodrigues).
47. "Nonsense Correlation and Biased Correlation due to Heterogeneous Samples", *Journal of the Royal Statistical Society D* 52 (2003), 367-379 (with Th. Thadewald).
48. "Nonsense Regressions due to Neglected Time-varying Means", *Statistical Papers* 44 (2003), 169-182.
49. "Inflation-Unemployment Tradeoff and Regional Labour Market Data", *Empirical Economics* 28 (2003), 321-334 (with M. Neugart).
50. "Dickey-Fuller Cointegration Tests in the Presence of Regime Shifts at Known Time", *Allgemeines Statistisches Archiv*, 86 (2002), 263-276.
51. "Wealth and Consumption: A Multicointegrated Model for the Unified Germany", *Journal of Economics and Statistics* 221 (2001), 32-44.
52. "The Effect of Linear Time Trends on Residual-Based Tests for the Null of Cointegration", *Journal of Time Series Analysis* 22 (2001), 283-292.
53. "Simple Regressions in the Presence of Linear Time Trends", *Journal of Time Series Analysis* 21 (2000), 27-32.
54. "Cointegration Testing in Single Error-Correction Equations in the Presence of Linear Time Trends", *Oxford Bulletin of Economics and Statistics* 62 (2000), 621-632.
55. "The KPSS Test for Cointegration in Case of Bivariate Regressions with Linear Trends", *Econometric Theory, Problems & Solutions* 16 (2000), 451-453.
56. "(When) Should Cointegrating Regressions be Detrended? The Case of a German Money Demand Function", *Empirical Economics* 24 (1999), 155-172.
57. "The Link between German Short- and Long-Term Interest Rates", *Jahrbücher für Nationalökonomie und Statistik* 217 (1998), 214-226 (with D. Nautz).
58. "A Note on Correlation in Regressions Without Cointegration", *Jahrbücher für Nationalökonomie und Statistik* 217 (1998), 518-523.
59. "A Note on Spurious Seasonality when Time Series Have Linear Trends", *ifo Studien* 44 (1998), 15-23 (with D. Nautz).
60. "Limiting Efficiency of OLS vs. GLS when Regressors are Fractionally Integrated", *Economics Letters* 60 (1998), 285-290 (with W. Krämer).

61. "Die Zinsstruktur am deutschen Interbanken-Geldmarkt: Eine empirische Analyse für das vereinigte Deutschland", *ifo studien* 44 (1998), 141-160 (with J. Wolters).
62. "Sample Autocorrelations of Nonstationary Fractionally Integrated Series", *Statistical Papers*, 38 (1997), 43-62
63. "On the Effect of Seasonal Adjustment on the Log-Periodogram Regression", *Economics Letters* 56 (1997), 135-141 (with M. Ooms).
64. "Spurious Regressions when Stationary Regressors are Included", *Economics Letters* 50 (1996), 25-31.
65. "Nonsense Correlation between Time Series with Linear Trends", *Allgemeines Statistisches Archiv* 80 (1996), 227-235.
66. "Long Memory in Inflation Rates: International Evidence", *Journal of Business and Economic Statistics* 13 (1995), 37-45 (with J. Wolters).
67. "The Periodogram Regression: Correction and Comments", *Communication in Statistics - Theory and Methods* 24 (1995), 3137-3146.
68. "The Sample Autocorrelation Function of I(1) Processes", *Statistical Papers* 35 (1994), 1-16.
69. "(Mis)Specification of Long Memory in Seasonal Time Series", *Journal of Time Series Analysis* 15 (1994), 19-30.
70. "On the Power of Unit Root Tests against Fractional Alternatives", *Economics Letters* 45 (1994), 1-5 (with J. Wolters).
71. "Unit Root Tests: The Autoregressive Approach in Comparison with the Periodogram Regression", *Statistical Papers* 34 (1993), 67-82.
72. "Regression of Spectral Estimators with Fractionally Integrated Time Series", *Journal of Time Series Analysis* 14 (1993), 369-380.

Papers without refereeing

1. "Distribution of the Durbin-Watson Statistic in Near-Integrated Processes", in: J. Beran, Y. Feng, and H. Hebbel (eds.): *Empirical Economic and Financial Research*, Springer, 2015 (with Mehdi Hosseinkouchack).
2. "Leitfaden zum Testen und Schätzen von Kointegration", in: W. Gaab, U. Heilemann und J. Wolters (Hrsg.): *Arbeiten mit ökonometrischen Modellen*, Physika-Verlag, 2004, 85-115.

3. “Zeitabhängige Volatilität und instationäre Zeitreihen: Zum Nobelpreis an Robert F. Engle und Clive W.J. Granger”, *Wirtschaftsdienst* 83 (2003), 811-816.
4. “The Effects of Linear Time Trends on Cointegration Testing in Single Equations”, in: A. Tavidze (eds.): *Progress in Economics Research, vol. 5*, Nova Science Publisher, 2003, 165-181.
5. “(Co-)Integration Testing under Structural Breaks: A Survey with Special Emphasis on the German Unification”, in: R. Pohl und P. Galler (eds.): *Implikationen der Währungsunion für makroökonomische Modelle*, Nomos, 2001, 113-126.
6. “Forecasting Money Market Rates in the Unified Germany”, in: R. Friedmann, L. Knüppel und H. Lütkepohl (eds.): *Econometric Studies: A Festschrift in Honour of Joachim Frohn*, LIT-Verlag, 2001, 185-201 (with J. Wolters).

Books in German

1. *Statistik im Bachelor-Studium: Eine Einführung für Wirtschaftswissenschaftler*, Springer, 2018.
2. *Stochastische Integration und Zeitreihenmodellierung: Eine Einführung mit Anwendungen aus Finanzierung und Ökonometrie*, Springer, 2007.
3. *Regressionen trendbehafteter Zeitreihen in der Ökonometrie*, Verlag für Wissenschaft und Forschung, 2000.
4. *Fraktional integrierte Prozesse in der Ökonometrie*, Haag + Herchen Verlag, 1993.