

CV of PD Dr. Joachim Schnurbus

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1 Personal and contact

- Born on July 30, 1979 in Selb, Germany
- Email: joachim.schnurbus@uni-passau.de
- Tel.: +49 851 509 2563
- Fax: +49 851 509 2562



2 Education

- May 2014 - Nov. 2017:
Postdoctoral studies (Habilitation) in Statistics at the University of Passau
 - Postdoctoral thesis: Essays on Computational Statistics and Data Science
 - Mentors: Prof. Dr. Harry Haupt (University of Passau), Prof. Dr. Oliver Entrop (University of Passau), Prof. Dr. Göran Kauermann (Ludwig-Maximilians-Universität Munich)
- Aug. 2006 - Jul. 2011:
Doctoral Studies in Econometrics at the University of Regensburg
 - Degree: Dr. rer. pol. (Ph.D. in economics) awarded (summa cum laude) by University of Regensburg
 - Ph.D. thesis: Multiple nonparametric regression and model validation for mixed regressors
 - Supervisors: Prof. Dr. Rolf Tschernig (University of Regensburg), Prof. Dr. Harry Haupt (Bielefeld University)
- Aug. 2010:
Advanced Summer School in Economics and Econometrics, University of Crete
 - *Semiparametric and Nonparametric Econometrics*, by Jeffrey S. Racine

- 2006 - 2007:
Bavarian Graduate Program in Economics (BGPE)
 - *Frontiers in Microeconomics*
 - *International Trade Theory and Policy*
 - *Industrial Organization*
- Oct. 2000 - Mar. 2006:
Study of Business Administration at the University of Regensburg
 - Degree: Dipl.-Kfm. (German Diploma)
 - Diploma Thesis: The Application of Loan Portfolio Models for Risk Structure Analysis
 - Majors: Economics of the Public Sector, Finance, Marketing, Statistics

3 Academic positions and activities

- Sep. 2018 - present:
Senior Lecturer in Computational Statistics and Mathematics, University of Passau
- Apr. 2018 - Aug. 2018:
(Interim) Professor of Statistics, Ludwig-Maximilians-Universität Munich
- Sep. 2012 - present:
Assistant Professor of Statistics (since Dec. 2017 Akad. Oberrat a.Z.), University of Passau
- Aug. 2014 - Jul. 2016:
Vice equal opportunity commissioner, Faculty of Business Administration and Economics, University of Passau
- Nov. 2011 - Sep. 2012:
Assistant Professor of Econometrics and Statistics, Bielefeld University
- Oct. 2010 - Nov. 2011:
Research Assistant at the Centre of Statistics (Prof. Dr. Harry Haupt), Bielefeld University
- Aug. 2006 - Sep. 2010:
Research and Teaching Assistant at the Chair of Econometrics (Prof. Dr. Rolf Tschernig), University of Regensburg
- Mar. 2003 - Jul. 2006:
Work and Internship at the Risk Research GmbH & Co. KG
- Oct. 2002 - Mar. 2004:
Student Assistant for Statistics at the Chair of Statistics (Prof. Dr. Alfred Hamerle), University of Regensburg

4 Publications

- Müller, E.F., Schnurbus, J. (2023). Heeding the Call of Science: What Leads PhD Graduates to Pursue an Academic Career? *Academy of Management Learning & Education*, amle.2021.0216.
- Thurner, P., Küchenhoff, H., Walter-Rogg, M., Heinrich, T., Klima, A., Knieper, T., Haupt, H., Mauerer, I., Mang, S., and J. Schnurbus (2023). Die Universitätsstudie Bayernwahl 2018 (USBW18): Design und ermittelte Wählerwanderungen. In: Walter-Rogg, M., Heinrich, T. (eds) *Die Landtagswahl 2018 in Bayern*. Springer VS, Wiesbaden.
- Dietlmeier, J., Dietrich, P., Knieper, T., Mang, S., Schnurbus, J., and M. Walter-Rogg (2023). Auffälligkeiten zwischen Mediennutzung und Wahlentscheidungen bei der Landtagswahl in Bayern 2018. In: Walter-Rogg, M., Heinrich, T. (eds) *Die Landtagswahl 2018 in Bayern*. Springer VS, Wiesbaden.
- Thurner, P., Klima, A., Küchenhoff, H., Mauerer, I., Mang, S., Walter-Rogg, M., Heinrich, T., Knieper, T., and J. Schnurbus (2022), Micromotives of Vote Switchers and Macrotransitions: The Case of the Immigration Issue in a Regional Earthquake Election in Germany 2018. *Politische Vierteljahresschrift*, 63, 663-684.
- Fritsch, M., Pua, A., and J. Schnurbus (2021). pdynmc: A Package for Estimating Linear Dynamic Panel Data Models Based on Nonlinear Moment Conditions. *The R Journal*, 13 (1), p. 218-231.
- Scholz, M., Schnurbus, J., Haupt, H., Dorner, V., Landherr, A., and F. Probst (2018). Dynamic Effects of User- and Marketer-Generated Content on Consumer Purchase Behavior: Modeling the Hierarchical Structure of Social Media Websites. *Decision Support Systems*, 113, 43 - 55.
- Haupt, H., Schnurbus, J., and W. Semmler (2018). Estimation of grouped, time-varying convergence in economic growth. *Econometrics and Statistics*, 8, 141-158.
- Grottko, M., Schnurbus, J., and G. Herde (2017). Teaching how to visualize Big Data from an Audience's point of view – an interdisciplinary approach to adaptive learning and teaching systems. *CORE meets eLAW 2017. Innovation in Higher Education Learning Spaces (Formal, Informal, Virtual, Real)*, 37-43.
- J. Schnurbus (2017). Essays on Computational Statistics and Data Science, *Postdoctoral thesis (Habilitationsschrift)*, University of Passau.
- Schnurbus, J., Haupt, H. and V. Meier (2017). Economic transition and growth – A replication, *Journal of Applied Econometrics*, 32, 1039-1042.
- Haupt, H. and J. Schnurbus (2015).
A Nonparametric Approach to Modeling Cross-Section Dependence in Panel Data: Smart Regions in Germany. In: Stemmler, M., von Eye, A., and W. Wiedermann (eds) *Dependent Data in Social Sciences Research: Forms, Issues, and Methods of Analysis, Springer Proceedings in Mathematics & Statistics* 145, 345-367, Springer.
- Haupt, H. and J. Schnurbus (2014). Glättung diskreter Kovariablen bei multipler Regression. *WISU*, 8-9/14, 1067 - 1073.

- J. Schnurbus (2011). Multiple nonparametric regression and model validation for mixed regressors. *Dissertation*, University of Regensburg.
- Haupt, H., Kagerer, K., and J. Schnurbus (2011). Cross-validating fit and predictive accuracy of nonlinear quantile regressions. *Journal of Applied Statistics*, 38, 2939-2954.
- Haupt, H., Schnurbus, J., and R. Tschernig (2010). On Nonparametric Estimation of a Hedonic Price Function. *Journal of Applied Econometrics*, 5, 894 - 901.
- Haupt, H., Schnurbus, J., and R. Tschernig (2010). Statistical validation of functional form in multiple regression using R. In: Vinod, H.D. (ed) *Advances in Social Science Research Using R, Lecture Notes in Statistics* 196, 155-166, Springer.

5 Software

- R-Package `pdynmc`: Moment Condition Based Estimation of Linear Dynamic Panel Data Models
Fritsch, M. Pua, A.A.Y. and J. Schnurbus
→ CRAN: <https://cran.r-project.org/web/packages/pdynmc/index.html>

6 Conference participation

- 2022: Session Organizer and presentation at International Conference of the ERCIM WG on Computing & Statistics, London
- 2022: DStatG Statistische Woche, Münster
- 2022: Invited at International Conference on Econometrics & Statistics (ECOSTA), Kyoto
- 2021: Session Organizer and presentation at International Conference of the ERCIM WG on Computing & Statistics, Virtual
- 2020: Session Organizer and presentation at International Conference of the ERCIM WG on Computing & Statistics, Virtual
- 2019: Session Organizer and presentation at International Conference of the ERCIM WG on Computing & Statistics, London
- 2019: ISEM Global conference on Ecological Modelling, Salzburg
- 2019: DStatG Statistische Woche, Trier
- 2018: Session Organizer and presentation at International Conference of the ERCIM WG on Computing & Statistics, Pisa
- 2018: DStatG Statistische Woche, Linz
- 2017: Session Organizer and presentation at International Conference of the ERCIM WG on Computing & Statistics, London
- 2017: Invited at International Conference on Econometrics & Statistics (ECOSTA), Hongkong

- 2016: Invited at International Conference of the ERCIM WG on Computing & Statistics, Seville
- 2016: Poster presentation at Conference of the International Association for Applied Econometrics, Milano
- 2016: Conference of the International Society for Non-Parametric Statistics, Avignon
- 2015: International Conference of the ERCIM WG on Computing & Statistics, London
- 2015: Session organizer and presentation at DStatG Statistische Woche, Hamburg
- 2014: International Conference of the ERCIM WG on Computing & Statistics, Pisa
- 2014: Annual Conference of European Network for Business and Industrial Statistics, Linz
- 2014: DStatG Statistische Woche, Hannover
- 2014: Session organizer and presentation at COMPSTAT, Geneva
- 2013: International Conference of the ERCIM WG on Computing & Statistics, London
- 2013: DAGStat Conference, Statistics under one Umbrella, Freiburg
- 2012: International Conference of the ERCIM WG on Computing & Statistics, Oviedo
- 2012: DStatG Statistische Woche, Wien
- 2012: Econometric Society European Meeting (EEA-ESEM), Malaga
- 2012: International Symposium on Forecasting, Boston
- 2011: DStatG Statistische Woche, Leipzig
- 2011: EEA-ESEM, Stockholm
- 2010: DAGStat Conference, Statistics under one Umbrella, Dortmund
- 2009: Conference on Quantitative Social Science Research Using R, New York
- 2009: DStatG Pfingsttagung, Merseburg
- 2008: DStatG Nachwuchsworkshop, Berlin

7 Editorial, referee, and review activities

- Jul. 2023 - present: Associate Editor of Advances in Statistical Analysis
- Applied Sciences
- Empirical Economics
- European Conference on Information Systems
- Heliyon
- Industrial Marketing Management
- International Journal of Environmental Research and Public Health
- Journal of Applied Statistics
- Methodology
- Oxford Bulletin of Economics and Statistics
- Schmalenbach Business Review
- Statistical Papers
- Structural Change and Economic Dynamics
- Symmetry
- The R Journal
- WI 2017: Wirtschaftsinformatik
- World Development

8 Research interests

- Estimation and forecasting for time series and panel data models
- Cross-section dependence in panel data models
- Semi- and nonparametric estimation methods
- Model validation
- Growth regressions
- Simulation-based statistical methods
- Statistical programming in R

9 Funded projects

- 2022 - 2023: Passau International Center for Advanced Interdisciplinary Studies funding for research visit of Daniel Henderson in December 2022 and June/July 2023.
- 2020 - 2022: University of Passau Teaching Innovation Pool for course: “Fundamentals of Business Analytics”, jointly with Harry Haupt, Alena Otto, and Dirk Totzek (≈ 20.000 €).
- 2019 - 2022: European Union - European Regional Development Fund for research project DIGITOUR (Digitale Dienstleistungstechnologien im Tourismus – Steigerung der Digital- und Servicekompetenz bei KMU der Tourismusbranche durch Technologieinnovationen), which is a joint project of/with CenTouris, Chairs of Marketing, Statistics & Data Science ($\approx 1.600.000$ €).
- 2018 - 2021 (Participation in 2018 February/March): European Union - European Structural- and Investmentfunds for research project DIGIONAL (Digitale Innovationen für den niederbayerischen Einzelhandel), which is a joint project of CenTouris, Chairs of Marketing, Chair of Statistics, University of Passau ($\approx 2,000,000$ €).
- 2018 - 2019: University of Passau Teaching Innovation Pool for course: “Empirisches Arbeiten in der Praxis” (Empirical work in practice), jointly with Stefan Mang and Thomas Knieper (≈ 20.000 €).
- 2018: Fritz Thyssen Stiftung for “Die Analyse von Wählerwanderungen: Anwendung eines innovativen methodischen Ansatzes am Beispiel der Landtagswahl 2018 in Bayern”, jointly with Ludwig-Maximilians-Universität Munich and University of Regensburg (54.000 €).
- 2016 - 2019: “Programm Digitaler Campus Bayern 2016” for Big Data Analytics Accounting Education project EEBDA (Evidenzbasierte Entscheidungen auf Grundlage von Big Data Analytics) which is a joint project of the Technical University of Munich, the University of Passau, the Polytechnic Landshut, the Polytechnic Schweinfurt-Würzburg and the Deggendorf Institute of Technology, a joint Bavarian cooperation dedicated to develop blended learning mechanisms for the area of Big Data Analytics ($\approx 350,000$ €).

10 Teaching

- Teaching Excellence Award (Preis für gute Lehre) 2019 — Federal State of Bavaria
- Teaching Excellence Award (Preis für gute Lehre) 2015 — University of Passau
- Teaching portfolio — Undergraduate level:
 - Mathematics for Economists
 - Statistics for Economists I & II
 - Econometrics I (i.e. Introductory Econometrics),
Econometrics II (i.e. Introduction to time series analysis),
Econometrics III (i.e. Introductory Microeconometrics)
[Econometrics I-III cover content of J.M. Wooldridge (2013), *Introductory Econometrics: A Modern Approach*, South-Western]
 - Mathematical Software
- Teaching portfolio — Graduate level:
 - Computational Statistics 1 - Introduction to R
 - Computational Statistics 2 - Regression in R
 - Computational Statistics 3 - Statistical Learning in R
 - Econometric Methods
 - Intensive Course in Econometrics
 - Multivariate Statistical Methods
 - Panel Data Analysis
 - Programming with R
 - Regression and Simulation in R
 - Seminar Applied Statistics
 - Statistical and Econometric Models
 - Topics in Applied Econometrics
- Teaching portfolio — Others:
 - Exercise groups:
Applied Financial Econometrics, Dynamic Econometrics, Statistics I&II
 - Workshop:
R for Business Informatics (taught at *13. Business informatics assistant professor meeting*, Passau, 2013)