

# CV of PD Dr. Joachim Schnurbus

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## 1 Personal and contact

- Born on July 30, 1979 in Selb, Germany
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- Tel.: +49 851 509 2563
- Homepage: <https://www.wiwi.uni-passau.de/csm>
- Google Scholar citations: [https://scholar.google.de/citations?user=K\\_5ZdawAAAAJ&hl=de&oi=ao](https://scholar.google.de/citations?user=K_5ZdawAAAAJ&hl=de&oi=ao)



## 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

- Feb. 2025 - present:  
Prof. of Computational Statistics and Mathematics, University of Passau
- Sep. 2018 - Jan. 2025:  
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

- Fritsch, M., Haupt, H. und J. Schnurbus (2025). Efficiency of poll-based multi-period forecasting systems for German state elections. *International Journal of Forecasting*, 41, 670-688, <https://doi.org/10.1016/j.ijforecast.2024.04.008>.
- Fritsch, M., Pua, A. und J. Schnurbus (2024). Teaching Advanced Topics in Econometrics using Introductory Textbooks: The Case of Dynamic Panel Data Methods. *International Review of Economics Education*, 47, 100297, <https://doi.org/10.1016/j.iree.2024.100297>.
- 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*, 22, 681-701, <https://doi.org/10.5465/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 Vierteljahrsschrift*, 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.
- Grottke, 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.
- See: [https://scholar.google.de/citations?user=K\\_5ZdawAAAAJ&hl=de&oi=ao](https://scholar.google.de/citations?user=K_5ZdawAAAAJ&hl=de&oi=ao)

## 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

P (Presentation), PP (Poster-Presentation), S (Session Organizer), I (Invited).

- 2025: P, DAGStat Conference, Statistics under one umbrella, Berlin
- 2024: S&P, International Conference of the ERCIM WG on Computing & Statistics, London
- 2024: P, DStatG Statistische Woche, Regensburg
- 2024: I, International Conference on Econometrics & Statistics (ECOSTA), Beijing
- 2024: P, Conference of the International Society for Non-Parametric Statistics, Braga
- 2023: P, DStatG Statistische Woche, Dortmund
- 2022: S&P, International Conference of the ERCIM WG on Computing & Statistics, London
- 2022: P, DStatG Statistische Woche, Münster
- 2022: I, International Conference on Econometrics & Statistics (ECOSTA), Kyoto

- 2021: S&P, International Conference of the ERCIM WG on Computing & Statistics, Virtual
- 2020: S&P, International Conference of the ERCIM WG on Computing & Statistics, Virtual
- 2019: S&P, International Conference of the ERCIM WG on Computing & Statistics, London
- 2019: P, ISEM Global conference on Ecological Modelling, Salzburg
- 2019: P, DStatG Statistische Woche, Trier
- 2018: S&P, International Conference of the ERCIM WG on Computing & Statistics, Pisa
- 2018: P, DStatG Statistische Woche, Linz
- 2017: S&P, International Conference of the ERCIM WG on Computing & Statistics, London
- 2017: I, International Conference on Econometrics & Statistics (ECOSTA), Hongkong
- 2016: I, International Conference of the ERCIM WG on Computing & Statistics, Sevilla
- 2016: PP, Conference of the International Association for Applied Econometrics, Mailand
- 2016: P, Conference of the International Society for Non-Parametric Statistics, Avignon
- 2015: P, International Conference of the ERCIM WG on Computing & Statistics, London
- 2015: S&P, DStatG Statistische Woche, Hamburg
- 2014: P, International Conference of the ERCIM WG on Computing & Statistics, Pisa
- 2014: P, Annual Conference of European Network for Business and Industrial Statistics, Linz
- 2014: P, DStatG Statistische Woche, Hannover
- 2014: S&P, bei COMPSTAT, Geneva
- 2013: P, International Conference of the ERCIM WG on Computing & Statistics, London
- 2013: P, DAGStat Conference, Statistics under one umbrella, Freiburg
- 2012: P, International Conference of the ERCIM WG on Computing & Statistics, Oviedo
- 2012: P, DStatG Statistische Woche, Wien
- 2012: P, Econometric Society European Meeting (EEA-ESEM), Malaga
- 2012: P, International Symposium on Forecasting, Boston
- 2011: P, DStatG Statistische Woche, Leipzig
- 2011: P, EEA-ESEM, Stockholm
- 2010: P, DAGStat Conference, Statistics under one umbrella, Dortmund
- 2009: P, Conference on Quantitative Social Science Research Using R, New York
- 2009: P, DStatG Pfingsttagung, Merseburg
- 2008: P, DStatG Nachwuchsworkshop, Berlin

## **7 Editorial, referee, and review activities**

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

## **8 Research interests**

- Nonparametric methods
- Dynamic panel models
- Growth convergence
- Predictions
- Computational statistics

## 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. ( $\approx 16.000 \text{ €}$ ).
- 2020 - 2022: University of Passau Teaching Innovation Pool for course: “Fundamentals of Business Analytics”, jointly with Harry Haupt, Alena Otto, and Dirk Totzek ( $\approx 20.000 \text{ €}$ ).
- 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 ( $\approx 1.600.000 \text{ €}$ ).
- 2023: Scientific Award of the University of Passau (Preis des Neuburger Gesprächskreises Wissenschaft und Praxis an der Universität Passau) for best transfer achievement: 2.000  $\text{€}$ .
- 2018 - 2021: 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 ( $\approx 2,000,000 \text{ €}$ ).
- 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 ( $\approx 20.000 \text{ €}$ ).
- 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  $\text{€}$ ).
- 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 ( $\approx 350,000 \text{ €}$ ).

## 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)