

Nikolas Kuschnig | Résumé

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[🌐 kuschnig.eu](http://kuschnig.eu) • [🐙 GitHub](https://github.com) • [🌐 LinkedIn](https://www.linkedin.com/in/nikolas-kuschnig)
*25th of July 1994, in Klagenfurt, Austria

Economics PhD candidate. Passionate about applied econometrics, environmental issues, Bayesian statistics, development, computation, and open science.

Education

- **Vienna University of Economics and Business (WU)** **Vienna**
PhD in Economics and Social Science *September 2019 –*
Working Title: New Econometric Approaches in Environmental Assessments
- **Vienna University of Economics and Business (WU)** **Vienna**
Master of Science in Economics, Mathematics Major *September 2017 – August 2019*
Thesis: The Impacts of Agriculture on Deforestation in Mato Grosso.
Supervisors: Jesús Crespo Cuaresma (WU) and Tamás Krisztin (IIASA)
- **Copenhagen Business School** **Copenhagen, Denmark**
Exchange Semester *August 2016 – February 2017*
- **Vienna University of Economics and Business (WU)** **Vienna**
Bachelor of Science in Business, Economics and Social Sciences *September 2013 – February 2017*

Experience

- **Vienna University of Economics and Business (WU)** **Vienna**
Research and Teaching Associate, Institute for Macroeconomics *September 2020 –*
Research in Bayesian econometric methods.
- **Vienna University of Economics and Business (WU)** **Vienna**
Research Associate / Assistant, Institute for Ecological Economics *May 2018 –*
Research within the ERC project FINEPRINT and the FWF project MF-GLOBE.
- **RBI Raiffeisen Research** **Vienna**
Student Support, Fixed Income and Market Strategy / Quant Research *May 2017 – August 2018*
Financial analysis, automation, discovered a bug inflating bond-volumes by over 50bn EUR per year.

Software

- **BVAR** **available on CRAN**
Hierarchical Bayesian Vector Autoregression with R
R package for the estimation of Bayesian vector autoregressive models with hierarchical prior selection for conjugate priors. Includes functionality to compute and identify impulse responses, calculate forecasts, forecast error variance decompositions and scenarios.

Reviews

I have reviewed for: *Journal of Statistical Software*, *Global Environmental Change*, *Empirica*.

Teaching

- Econometrics 2 (Bachelor level, WU Vienna) – Winter 2020
- Reading circle (“People, Power, and Profits” and guests) – Summer 2021
- Applied Econometrics (Bachelor level, WU Vienna) – Summer 2021

Achievements

- WU Small Project Grant (4,000 EUR) – 2020
- IIASA Young Scientists Summer Programme – 2020
- Nowotny Mobility Grant (900 EUR) – 2020
- Best Master’s Thesis at the Economics Department – 2019
- Merit Scholarships

Presentations

- WU Economics Research Seminar 2021 (Vienna), Institute for Ecological Economics Seminar 2020 (Vienna), useR! 2020 The R User Conference (St. Louis, United States), WU Economics Research Seminar 2020 (Vienna), IIASA Research Seminar 2019 (Laxenburg), 13th ISIE-SEM conference (Berlin, Germany)

Skills and Activities

Technical

- **Programming:** R (+), Python, C++, VBA, Matlab, C
- **Data:** PostgreSQL, PostGIS, Bloomberg, Reuters
- **Markup:** \LaTeX , Beamer, Markdown, HTML/CSS
- **Other:** Git (+), Bash, Excel (+), Office, QGIS, Geoserver, Docker, Stata, etc

Languages

- **German:** Native
- **English:** Proficient (TOEFL 115/120)
- **Italian:** Intermediate
- **Spanish, Danish:** Basic

Activities and Interests

- Paramedic in Klagenfurt at the Red Cross Carinthia during civil service
- Sports (skiing, tennis, football), music, strategy games, travel

Publications

Journal Articles

- [1] Bruckner, M., Wood, R., Moran, D., Kuschnig, N., Wieland, H., Maus, V., and Börner, J. (2019). FABIO – the construction of the food and agriculture biomass input-output model. *Environmental Science & Technology*, 53(19):11302–11312, DOI: 10.1021/acs.est.9b03554.
- [2] Kuschnig, N. (2021). Inadequate methods undermine a study of malaria, deforestation and trade. *Nature Communications*, (forthcoming), DOI: 10.1038/s41467-021-22514-4.
- [3] Kuschnig, N., Crespo Cuaresma, J., Krisztin, T., and Giljum, S. (2020). Spillover effects in deforestation: Evidence from the Brazilian Amazon. *under review*, DOI: 10.13140/RG.2.2.12119.83362/1.
- [4] Kuschnig, N. and Vashold, L. (2021). BVAR: Bayesian vector autoregressions with

hierarchical prior selection in R. *Journal of Statistical Software*, (forthcoming), DOI: 10.13140/RG.2.2.25541.60643.

Working Papers.....

- [1] Giljum, S., Wegner Maus, V., Kuschnig, N., and Luckeneder, S. (2021). Mining induced deforestation – direct and indirect effects. *Working Paper*.
- [2] Kuschnig, N., Zens, G., and Crespo Cuaresma, J. (2021). Hidden in plain sight: Influential sets in linear models. *Working Paper*.

Conferences (peer-reviewed).....

- [1] Kuschnig, N. (2019). Assessing the impacts of agriculture on deforestation in Mato Grosso. In *13th Conference of the Socio-Economic Metabolism Section (SEM) of the International Society for Industrial Ecology (ISIE)*, Berlin, Germany.
- [2] Kuschnig, N. and Vashold, L. (2020). BVAR: Hierarchical Bayesian vector autoregression with hierarchical prior selection in R. In *useR! 2020 The R User Conference*, St. Louis, United States. <https://www.youtube.com/watch?v=kos9yzhvL1I>.

Other.....

- [1] Kuschnig, N. (2019). The impacts of agriculture on deforestation in Mato Grosso: A spatial econometric approach. Master's thesis, Vienna University of Economics and Business, Vienna, Austria.
- [2] Kuschnig, N. (2020). *sanic: Solving $Ax = b$ Nimbly in C++*, <https://CRAN.R-project.org/package=sanic>. R package version 0.0.1.
- [3] Kuschnig, N. and Vashold, L. (2020). *BVAR: Hierarchical Bayesian Vector Autoregression*, <https://CRAN.R-project.org/package=BVAR>. R package version 1.0.1.
- [4] Vashold, L. and Kuschnig, N. (2020). *BVARverse: Tidy Bayesian Vector Autoregression*, <https://CRAN.R-project.org/package=BVARverse>. R package version 0.0.1.