

Curriculum Vitae

Dmitri Blueschke

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Personal data:

Name: Dmitri Blueschke
Date of birth: June 6, 1981
Place of birth: Koktschetaw, Kazakhstan
Nationality: German
Marital status: Married since 2003, two children
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Academic education:

02.03.2018 Habilitation (venia docendi) in Economics, University of Klagenfurt
2007 – 2012 PhD in Economics at the University of Klagenfurt, Austria. Degree:
Doktor der Sozial- und Wirtschaftswissenschaften (Dr.rer.soc.oec)
2002 – 2007 Study in Economics and Mathematics at the University of Bielefeld,
Germany. Degree: Diplom-Volkswirt

Positions:

Since 04/2018 Associate professor at the Department of Economics, University of
Klagenfurt, Austria
08/2018 – 12/2018 Visiting scholar at SAIS, Johns Hopkins University, Washington DC
04/2012 – 03/2018 Assistant professor at the Department of Economics, University of
Klagenfurt, Austria
09/2010 – 03/2012 Senior scientist at the Department of Economics, University of
Klagenfurt
09/2007 – 08/2010 Research assistant at the Department of Economics, University of
Klagenfurt in the project "The Macroeconomics of EMU Enlargement"
06/2006 – 08/2007 Research assistant at the Department of Statistics and
Econometrics, Bielefeld University
04/2006 – 05/2006 Internship at the Federal Statistical Office, Wiesbaden, Germany
10/2004 – 03/2005 Teaching assistant at the Department of Statistics and
& 11/2005 – 03/2006 Econometrics, Bielefeld University

Research:

Major fields of interest: macroeconomics; game theory; control theory; economic policy; environmental economics; energy economics; international economics; nonlinear dynamic stochastic problems; econometrics; heuristics; computational economics; evolutionary optimization

Other activities:

2016 Research stay at BETA (Bureau d'Economie Théorique et Appliquée), Strasbourg, France

2013 – Present Member of the German Network on New Economic Dynamics (GENED)

2007 – 2010 Member of the EU funded Marie Curie research and training network “Computational Optimization Methods in Statistics, Econometrics and Finance (COMISEF)”

2009 Participation at ICE 2009 (summer program at the Institute on Computational Economics, University of Chicago, USA)

Awards and grants:

2024 - 2027 FWF Grant “Europe’s Mineral Trade and Global Energy Transition Nexus amid Geopolitical Risks”

2018 Fellowship of the Austrian Marshal Plan Foundation

06/2015 Young Economists Award from the Austrian Economic Association

2014, 2016 ÖFG “Internationale Kommunikation” grant

2013 Award for Excellence in Publishing from the University of Klagenfurt

2012, 2016 Award from the Heinrich Graf Hardegg’sche Stiftung

10/2008 – 07/2009 Dr. Manfred-Gehring-Forschungsstipendium (an academic scholarship for young researchers)

06/2009 Acceptance on “WiWi-Talents Program” (50 top-of-the-year students in economics in German-speaking countries)

Languages: English, German, Russian

Computer skills: Matlab, Eviews, R, SPSS, LaTeX, MS Office, gretl, C#, C/C++, NetLogo, RATS

Peer review and editorial activities:

Peer reviews: Journal of Economic Dynamics and Control, European Journal of Operational Research, Journal of Macroeconomics, Macroeconomic Dynamics, Computational Economics, Journal of Heuristics, Journal of Economics and Statistics, China Economic Review, International Journal of Finance & Economics, Empirica, Automatica, Economic Modelling, African Development Review, Economics and Human Biology, Dynamic Games and Applications, International Journal of Sustainable Economy, Economic Research

Conferences: Total of more than 50 talks at international workshops and conferences

Teaching experience: Total of more than 50 courses (German and English)

University of Klagenfurt: Macroeconomics (bachelor and master level), International Economics (bachelor and master), Data Analytics (bachelor), Economic Policy (bachelor), Advanced Macroeconomics (PhD), Research Methods in Economics (master), Microeconomics (bachelor), Introduction to Economics (bachelor), Master and PhD students' supervision seminar, Sports Economics (bachelor)

University of Bielefeld: Teaching Assistant in Econometrics (bachelor)

University services: Program director for the bachelor "International Business and Economics"; Member of curricular commission; Executive committee member of CESEENet (Central and South-East European PhD Network); Executive committee member of the doctoral program MANSIO (Modeling, Analysis, Simulation and Optimization of Discrete, Continuous, and Stochastic Systems with Applications in Business and Economics); Hiring committee (2018); Habilitation committee (2014); Committee for developing a new study program

Publications

1. Neck, R., Blueschke, D., & Blueschke-Nikolaeva, V. (2025). Macroeconomic Stabilization Policy for a Dynamic Economy: Variations on a Model by Leitmann and Wan. *Central European Journal of Operations Research*, forthcoming.
2. Mariev, O. & Blueschke, D. (2024). Interplay of Chinese Rare Earth Elements Supply and European Clean Energy Transition: A Geopolitical Context Analysis. *Renewable Energy*, forthcoming.
3. Neck, R., Blueschke, D., & Blueschke-Nikolaeva, V. (2024). Optimal Fiscal Policy in Times of Uncertainty: A Stochastic Control Approach. *Empirica*, forthcoming.
4. Blueschke, D., Blueschke-Nikolaeva, V., & Neck, R. (2024). Sensitivity analysis for a dynamic macroeconomic policy game in a monetary union. *Central European Journal of Operations Research*, 32, 507-520.
5. Blueschke, D., Weyerstrass, K., Neck, R. & Verbič, M. (2024). How can the preferences of policy makers be operationalised in optimum control problems with macroeconometric models? A case study for Slovenian fiscal policies. *Public Sector Economics*, 48, 151-169.
6. Blueschke, D., Blueschke-Nikolaeva, V., & Neck, R. (2023). Should Fiscal Policies be Centralized in a Monetary Union? A Dynamic Game Approach. *Central European Journal of Operations Research*, 31, 1129-1148, 10.1007/s10100-023-00846-4.
7. Sohag, K., Sokolova, Y., Vilamova, S., & Blueschke, D. (2023). Volatility transmission from critical minerals prices to green investments. *Resources Policy*, 82, 10.1016/j.resourpol.2023.103499.
8. Weyerstrass, K., Blueschke, D., Neck, R. & Verbič, M. (2023). Dealing with the COVID-19 Pandemic in Slovenia: Simulations with a Macroeconometric Model. *Empirica*, 50, 853-881.

9. Abbas, S., Yousaf, H., Khan, S., Rehman, M.Z., & Blueschke, D. (2023). Analysis and Projection of Transport Sector Demand for Energy and Carbon Emission: An Application of the Grey Model in Pakistan. *Mathematics*, 11, 10.3390/math11061443.
10. Blueschke, D., Blueschke-Nikolaeva, V., & Neck, R. (2023). Macroeconomic Policy Strategies in a Monetary Union: Simulations with a Dynamic-Game Model. Proceedings of the 37th ECMS International Conference on Modelling and Simulation ECMS 2023, 83-93.
11. Blueschke, D., Blueschke-Nikolaeva, V., & Neck, R. (2021). Approximately Optimal Control of Nonlinear Dynamic Stochastic Problems with Learning: The OPTCON Algorithm. *Algorithms*, 14(6), 181.
12. Neck, R., Weyerstrass, K., Blueschke, D. & Verbič, M. (2021). Demand-side or supply-side stabilisation policies in a small euro area economy: a case study for Slovenia. *Empirica*, 48(3), 593-610, doi: 10.1007/s10663-021-09503-y.
13. Blueschke, D., Neck, R. & Wittmann, A. (2020). How relieving is public debt relief? Monetary and fiscal policies in a monetary union during a debt crisis. *Central European Journal of Operations Research*, 28(2), 539-559.
14. Blueschke, D., Savin I. & Blueschke-Nikolaeva, V. (2020). An Evolutionary Approach to Passive Learning in Optimal Control Problems. *Computational Economics*, 56(3), 659-673.
15. Neck, R. & Blueschke, D. (2020). Every Country for Itself and the Central Bank for Us All? *International Advances in Economic Research*, 26(4), 377-389.
16. Weyerstrass, K., Neck, R., Blueschke, D., Majcen, B., Srakar, A. & Verbič, M. (2020). Stabilization Policies in a Small Euro Area Economy: Taxes or Expenditures? A Case Study for Slovenia. *International Journal of Computational Economics and Econometrics*, 10(4), 309-327.
17. Blueschke-Nikolaeva, V., Blueschke, D. & Neck, R. (2020). OPTCON3: An Active Learning Control Algorithm for Nonlinear Quadratic Stochastic Problems. *Computational Economics*, 56(1), 145-162.
18. Blueschke, D., Weyerstrass, K., Neck, R., Majcen, B., Srakar, A. & Verbič, M. (2019). Budget Consolidation in a Small Open Economy: A Case Study for Slovenia. *Post-Communist Economies*, 31(3), 325-348.
19. Savin, I., Blueschke D. & Blueschke-Nikolaeva, V. (2018). Slow and steady wins the race: approximating Nash equilibria in nonlinear quadratic tracking games. *Journal of Economics and Statistics*, 238(6), 541-569.
20. Blueschke, D. & Neck, R. (2018). Game of Thrones: Accommodating Monetary Policies in a Monetary Union. *Games*, <http://www.mdpi.com/2073-4336/9/1/9>.
21. Neck, R., Weyerstrass, K., Blueschke, D., Majcen, B., Srakar, A. & Verbič, M. (2018). How to Achieve the Take-off into Sustained Growth? A Case Study for Slovenia. *International Advances in Economic Research* 24(2), 109-121.
22. Weyerstrass, K., Neck, R., Blueschke, D., Majcen, B., Srakar, A. & Verbič, M. (2018). SLOPOL10: A Macroeconometric Model for Slovenia. *Economic and Business Review* 20(2), 269-302.
23. Blueschke, D. & Savin, I. (2017). No such thing like perfect hammer: comparing different objective function specifications for optimal control, *Central European Journal of Operations Research* 25(2), 377-392.
24. Neck, R., Blueschke-Nikolaeva, V. & Blueschke, D. (2017). Finite horizon optimum control with and without a scrap value, AIP Conference Proceedings 1836, 020012; doi: 10.1063/1.4981952, 1836(020012).

25. Blueschke, D. & Neck, R. (2017). Together we are strong – divided still stronger? Strategic aspects of a fiscal union. In: K.F. Doerner, I. Ljubic, G. Pflug, G. Tragler (eds.), Operations research proceedings 2015, Springer, 563-569.
26. Neck, R. & Blueschke, D. (2016). What to Do When Stagflation Returns? Monetary and Fiscal Policy Strategies for a Monetary Union, *Journal of Economic Asymmetries* 14, 128-146.
27. Savin, I. & Blueschke D. (2016). Lost in Translation: Explicitly Solving Nonlinear Stochastic Optimal Control Problems Using the Median Objective Value, *Computational Economics* 48(2), 317-338.
28. Blueschke, D., Weyerstrass, K. & Neck, R. (2016). How Should Slovenia Design Fiscal Policies in the Government Debt Crisis? *Emerging Markets Finance and Trade*, 52(7), 1562-1573.
29. Neck, R. & Blueschke, D. (2016). United We Stand: On the Macroeconomics of a Fiscal Union, *Empirica*, 43(2), 333-347.
30. Weyerstrass, K. & Blueschke, D. (2016). EuroMod: a macroeconomic model of a “mini Euro area”. In: N. Wohlgemuth, D. Blüschke (eds.), *Wirtschaftspolitik im Wandel der Zeit*, Peter Lang, 181-200.
31. Blueschke, D. & Neck, R. (2016). Fiscal and Monetary Policies in a Monetary Union: Conflict or Cooperation. In: H. Dawid, K.F. Doerner, G. Feichtinger, P.M. Kort, A. Seidl (eds.), *Dynamic Perspectives on Managerial Decision Making. Essays in Honor of Richard F. Hartl*, Springer, 201-216.
32. Neck, R. & Blueschke, D. (2016). Strategic Macroeconomic Policies in a Monetary Union. In: B. Bednar-Friedl, J. Kleinert (eds.), *Dynamic Approaches to Global Economic Challenges. Festschrift in Honor of Karl Farmer*, Cham, 53–73.
33. Blueschke, D. & Neck, R. (2015). Optimal Macroeconomic Policies in a Monetary Union: A Dynamic Game Analysis. *IFAC-PapersOnLine* 48(25), 120-125.
34. Neck, R. & Blueschke, D. (2014). "Haircuts" for the EMU periphery: virtue or vice? *Empirica* 41(2), 153-175.
35. Blueschke, D., Blueschke-Nikolaeva, V. & Neck, R. (2014). Stochastic Control of Econometric Models for Slovenia. *System Modeling and Optimization* 443, 21 - 30, Springer.
36. Blueschke, D. & Neck, R. (2014). Policy Interactions in a Monetary Union: An Application of the OPTGAME Algorithm. In: J. Haunschmid, V. Veliov, S. Wrzaczek (eds.), *Dynamic Games in Economics*, Springer, 51-69.
37. Blueschke, D. (2014). *Optimal Policies for Nonlinear Economic Models*, Südwestdeutscher Verlag für Hochschulschriften.
38. Blueschke, D., Blueschke-Nikolaeva, V. & Savin, I. (2013). New insights into optimal control of nonlinear dynamic econometric models: application of a heuristic approach, *Journal of Economic Dynamics and Control* 37(4), 821-837.
39. Blueschke, D., Blueschke-Nikolaeva, V. & Neck, R. (2013). Stochastic control of linear and nonlinear econometric models: some computational aspects. *Computational Economics* 42, 107-118.
40. Neck, R., Blueschke, D. & Weyerstrass, K. (2013). Trade-Off of fiscal austerity in the European Debt Crisis in Slovenia. *International Advances in Economic Research* 19(4), 367-380.
41. Blueschke, D., Neck, R. & Behrens, D.A. (2013). OPTGAME3: A dynamic game solver and an economic example. In: Křivan V., Zaccour G. (eds.), *Advances in Dynamic Games. Theory, Applications, and Numerical Methods*. Basel: Birkhäuser Verlag, 2013 (Annals of the International Society of Dynamic Games, 13), 29-51.

42. Blueschke-Nikolaeva, V., Blueschke, D. & Neck, R. (2012). Optimal control of nonlinear dynamic econometric models: An algorithm and an application. *Computational Statistics and Data Analysis* 56, 3230–3240.
43. Neck, R., Blueschke, D. & Weyerstrass, K. (2012). Macroeconomic policies for Slovenia in the “Great Recession”. *International Advances in Economic Research* 18(4), 345-366.
44. Blueschke, D., Blueschke-Nikolaeva, V., Neck, R. & Weyerstrass, K. (2012). Macroeconomic policies for Slovenia after the “Great Recession”. *Eurasian Economic Review* 2, 54-93.
45. Blueschke, D. & Neck, R. (2012). Monetary and Fiscal Policies in a Dynamic Game Model of the EMU. In: L. Lacina, P. Rozmahel, A. Rusek (eds.), *Eurozone and Its Neighbours: The Third Year of Crisis*, Martin Stříž Publishing, 57-76.
46. Blueschke, D. & Neck, R. (2011). “Core” and “periphery” in a monetary union: A macroeconomic policy game. *International Advances in Economic Research* 17, 334–346.
47. Neck, R., Blueschke, D. & Weyerstrass, K. (2011). Optimal macroeconomic policies in a financial and economic crisis: a case study for Slovenia. *Empirica* 38, 435–459.
48. Neck, R., Blueschke, D. and Blueschke-Nikolaeva, V. (2010). Optimal Macroeconomic Policies under Uncertainty: An Application of Stochastic Control Theory to Slovenia. In: A. Welfe (eds.), *MACROMODELS 2009*, Lodz 2010, 167–182.
49. Chen, P., Frohn, J., Blüschke, D., Klocke, A., Schneider, E., Walter, H. & Zeng, J. (2008). Entwicklung und Implementierung einer angemessenen ökonomischen Methodik für die Spezifikation und Schätzung großer simultaner struktureller makroökonomischer Modelle, Diskussionspaper Nr. 573, Fakultät für Wirtschaftswissenschaften, Universität Bielefeld.
50. Chen, P., Blueschke, D., Blueschke-Nikolaeva, V. & Zeng, J. (2008). Subs4coint.