

# Philipp Koch

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RESEARCH INTERESTS	Economic geography, political economy, economic history, complexity, network science, economic development, innovation, global value chains, economic policy
EDUCATION	<p><b>PhD in Applied Mathematics</b> Sep. 2021 – Present <i>Center for Collective Learning, ANITI, Université de Toulouse</i> Toulouse, France Preliminary thesis title: <i>Economic Complexity and machine learning</i> Supervisor: César A. Hidalgo</p> <p><b>MSc in Economics (Science Track)</b> Oct. 2018 – Jul. 2020 <i>Vienna University of Economics and Business</i> Vienna, Austria Thesis: <i>Revisiting Economic Complexity using value-added exports</i> Supervisor: Jesús Crespo Cuaresma</p> <p><b>BSc in Psychology</b> Oct. 2015 – Sep. 2017 <i>University of Vienna</i> (unfinished, completed half of the program) Vienna, Austria</p> <p><b>BSc in Economics &amp; Social Sciences</b> Oct. 2014 – Jan. 2018 <i>Vienna University of Economics and Business</i> Vienna, Austria</p>
PROFESSIONAL	<p><b>Researcher</b> Sep. 2022 – Present <i>EcoAustria - Institute for Economic Research</i> Vienna, Austria</p> <p><b>Visiting PhD Student</b> Sep. 2022 – Jan. 2023 <i>Complexity Science Hub</i> Vienna, Austria</p> <p><b>Junior Researcher</b> Aug. 2020 – Aug. 2021 <i>EcoAustria - Institute for Economic Research</i> Vienna, Austria</p> <p><b>Intern</b> Jul. 2019 – Dec. 2019 <i>Austrian National Bank - Division for Economic Studies</i> Vienna, Austria</p> <p><b>Research Assistant</b> March 2018 – Jul. 2020 <i>EcoAustria - Institute for Economic Research</i> Vienna, Austria</p> <p><b>Lecturer in the Fundamentals of Economics</b> Feb. 2018 <i>Vienna University of Economics and Business</i> Vienna, Austria</p> <p><b>Tutor &amp; E-learning Assistant</b> Feb. 2017 – Dec. 2017 <i>Vienna University of Economics and Business</i> Vienna, Austria</p>
WORKING PAPER	<p>Stojkoski, V., <u>Koch, P.</u>, Coll, E. &amp; C. A. Hidalgo (2023). The Growth, Geography, and Implications of Trade in Digital Products. <i>arXiv preprint arXiv:2310.02253</i>. Revise &amp; Resubmit in <i>Nature Communications</i>.</p> <p><u>Koch, P.</u>, Stojkoski, V. &amp; C. A. Hidalgo (2024). Quadrupling historical GDP per capita estimates through machine learning. <i>Submitted to journal</i>.</p>
PUBLICATIONS (PEER-REVIEWED)	<p>7. <u>Koch, P.</u>, Stojkoski, V. &amp; C. A. Hidalgo (2023). The Role of Immigrants, Emigrants, and Locals in the Historical Formation of European Knowledge Agglomerations. <i>Regional Studies</i>.</p> <p>6. Stojkoski, V., <u>Koch, P.</u> &amp; C. A. Hidalgo (2023). Multidimensional economic complexity and inclusive green growth. <i>Communications Earth &amp; Environment</i>, 4, 130.</p> <p>5. Schwarzbauer, W., <u>Koch, P.</u> &amp; M. Wolf (2022). Park &amp; Ride facilities and suburban sprawl. <i>European Planning Studies</i>, 30, 7, 1378-1398.</p> <p>4. Schwarzbauer, W. &amp; <u>P. Koch</u> (2021). On the significance of free trade and global value chains for Germany and Austria. <i>List Forum für Wirtschafts- und Finanzpolitik</i>, 46, 451-470.</p>

3. Koch, P. & W. Schwarzbauer (2021). Yet another space: Why the Industry Space adds value to the understanding of structural change and economic development. *Structural Change and Economic Dynamics*, 59, 198-213.
2. Koch, P. (2021). Economic Complexity and Growth: Can value-added exports better explain the link? *Economics Letters*, 198, 109682.
1. Thomas, T., Koch, P. & W. Schwarzbauer (2020). Tenant's paradise Austria? Myth and reality. *List Forum für Wirtschafts- und Finanzpolitik*, 45, 319-346.
- TEACHING
1. Full lecture in the Fundamentals of Economics, Vienna University of Economics and Business, February 2018.
2. Multiple tutoring classes in the Fundamentals of Economics, Vienna University of Economics and Business, Feb. 2017 - Dec. 2017.
- TALKS, CONFERENCES  
& VISITS
- 2024:** Invited seminar speaker at IAST at the Toulouse School of Economics; 7<sup>th</sup> Geography of Innovation Conference, University of Manchester; 16<sup>th</sup> FIW Research Conference International Economics; European Public Choice Society Conference, Vienna University of Economics and Business; Invited seminar speaker at the University of Pécs, Hungary.
- 2023:** Invited speaker at the workshop on the Emergence of Innovation, University of Chicago; 2<sup>nd</sup> International Conference on the Science of Science and Innovation, Northwestern University; NetSci 2023, University of Vienna; Annual Meeting of the Austrian Economic Association (NoEG), Paris Lodron University Salzburg; 14<sup>th</sup> Geoffrey J.D. Hewings Regional Economics Workshop, WIFO Vienna; PhD Workshop on Mathematics and Statistics, Toulouse School of Economics.
- 2022:** Seminar talk at the Complexity Science Hub, Vienna; WICK10 PhD Workshop in Economics of Innovation, Complexity and Knowledge, Collegio Carlo Alberto, Turin; 13<sup>th</sup> Geoffrey J.D. Hewings Regional Economics Workshop, WIFO Vienna; 6<sup>th</sup> Geography of Innovation Conference, Bocconi University, Milan; International PhD Course in Economic Geography, University Utrecht.
- 2021:** WIFO Research Seminar; 13<sup>th</sup> FIW Research Conference International Economics.
- 2020:** Harvard Growth Lab Research Seminar.
- OTHER PUBLICATIONS (IN GERMAN)
- Besides my academic publications, I contributed to several policy reports at EcoAustria. The following list provides a selection of publications showing the diversity of topics I tackled, from housing policies and COVID-19 support measures to export diversification strategies.
- Bittó, V., Koch, P. & W. Schwarzbauer (2024). Future perspectives on Austria's export portfolio. *Study commissioned by the Austrian Federal Ministry of Labor and Economy.*
- Schwarzbauer, W., Bittó, V. & P. Koch (2023). Economic potentials of trade relationships between Austria and South Korea. *Study commissioned by Samsung.*
- Köppl-Turyna, M., Koch, P. & W. Schwarzbauer (2021). Estimating the insolvency backlog and the share of firms with long-term negative equity after COVID-19 in Austria. *Study commissioned by the Austrian Federal Ministry of Digitalization and Economy.*
- Koch, P. & M. Köppl-Turyna (2021). Internationally mobile workforce: A new view on competitiveness. *EcoAustria Policy Note 47.*
- Köppl-Turyna, M. et al. (2021). COVID-19 measures: International comparison of COVID-19 support measures given the country-specific importance of automatic stabilizers. *Study commissioned by the Austrian Federal Ministry of Finance.*
- Schwarzbauer, W. & P. Koch (2021). Austria's potential for a more environmentally friendly manufacturing industry. *EcoAustria Analysis 12.*
- Thomas, T., Koch, P. & W. Schwarzbauer (2019). Thoughts on the regulation of digital platforms. *EcoAustria Policy Note 34.*