

Curriculum Vitae

Sebastian LUCKENEDER

CONTACT INFORMATION

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AREAS OF RESEARCH INTEREST

Ecological Economics, Natural Resources, Development Economics, Applied Econometrics, Spatial Statistics

EDUCATION

Vienna University of Economics and Business , Austria PhD ECONOMICS AND SOCIAL SCIENCES, passed with distinction “Spatial data approaches for assessing the environmental and socioeconomic impacts of mining activities” Doctoral committee: Stefan Giljum, Jesus Crespo Cuaresma, Anthony Bebbington	2019 – 2025
Vienna University of Economics and Business , Austria MSc ECONOMICS, science track, passed with distinction	2016 – 2019
Vienna University of Economics and Business , Austria BSc ECONOMICS, BUSINESS AND SOCIAL SCIENCES, economics track Exchange semester at York University, Schulich School of Business , Toronto, Canada	2011 – 2015
University of Vienna , Austria BA DEVELOPMENT STUDIES	2011 – 2015

ACADEMIC POSITIONS AND PROFESSIONAL EXPERIENCE

Postdoctoral Researcher , Vienna University of Economics and Business, Austria Institute for Ecological Economics (Horizon Europe and World Bank projects)	since 2025
Research Associate , Vienna University of Economics and Business, Austria Institute for Ecological Economics (ERC and OeNB projects)	2019 – 2024
Visiting Researcher , Federal University of Minas Gerais, Belo Horizonte, Brazil Hosted by Richard van der Hoff, Departamento de Engenharia de Produção	2023
Visiting Researcher , University of Queensland, Brisbane, Australia Hosted by Laura Sonter, School of the Environment	2022
Research Scholar , International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria Young Scientists Summer Program (YSSP)	2021
Research Assistant , Vienna University of Economics and Business, Austria Institute for Ecological Economics (ERC project)	2017 – 2019
Research Intern , Upper Austrian Chamber of Labour, Linz, Austria Economic and Social Policy Department	2018
Student Assistant , Raiffeisenbank International, Vienna, Austria Market Strategy/Quant Research	2015 – 2017

PUBLICATIONS IN REFEREED JOURNALS

- (9) “Metal mining is a global driver of environmental change” with Stefan Giljum, Victor Maus, Laura Sonter, Tim Werner, Stephan Lutter, Anthony Bebbington and more, *Nature Reviews Earth & Environment*, 2025. [[publication](#)]
- (8) “Subnational variations in the quality of household survey data in sub-Saharan Africa” with Valentin Seidler, Amelia Finaret, Gregor Zens, Andrew Tatem, Patrick Webb and more, *Nature Communications*, 2025. [[publication](#), [wp](#)]
- (7) “How to fuel an energy transition with ecologically responsible mining” with Laura Sonter, Stefan Giljum, Victor Maus, Stephen Northey, Tim Werner, Piero Visconti, James Watson and more, *Proceedings of the National Academy of Sciences*, 2023. [[publication](#)]
- (6) “Undermined efforts? The ambiguous role of mining jobs in a just transition” with Martin Cerny, *Journal für Entwicklungspolitik*, 2023. [[publication](#)]
- (5) “A pan-tropical assessment of deforestation caused by industrial mining” with Stefan Giljum, Victor Maus, Nikolas Kuschnig, Michael Tost, Laura Sonter and Anthony Bebbington, *Proceedings of the National Academy of Sciences*, 2022. [[publication](#)]
- (4) “An update on global mining land use” with Victor Maus, Stefan Giljum, Dieison da Silva, Jakob Gutschlhofer, Robson da Rosa, Sidnei Gass, Mirko Lieber and Ian McCallum, *Nature Scientific Data*, 2022. [[publication](#)]
- (3) “Surge in global metal mining threatens vulnerable ecosystems” with Stefan Giljum, Anke Schaffartzik, Victor Maus and Michael Tost, *Global Environmental Change*, 2021. [[publication](#)]
- (2) “A global-scale data set of mining areas” with Victor Maus, Stefan Giljum, Jakob Gutschlhofer, Dieison da Silva, Michael Probst, Sidnei Gass, Mirko Lieber and Ian McCallum, *Nature Scientific Data*, 2020. [[publication](#)]
- (1) “Ecosystem services costs of metal mining and pressures on biomes” with Michael Tost, Diego Murguia, Michael Hitch, Stephan Lutter, Susanne Feiel and Peter Moser, *The Extractive Industries and Society*, 2019. [[publication](#)]

REPORTS, WORKING PAPERS AND WORK IN PROGRESS

- (7) “Water use for global copper production” with Stephan Lutter, Victor Maus and Michael Tost, 2025.
- (6) “EU consumption’s hidden link to global deforestation caused by mining” with Stefan Giljum, Victor Maus, Laura Sonter and Manfred Lenzen, 2024. [[working paper](#)]
- (5) “Forest loss and uncertain economic gains from industrial and garimpo mining in Brazilian municipalities” with Victor Maus, Juliana Siqueira-Gay, Tamás Krisztin and Michael Kuhn, accepted at *Nature Communications*, 2025.
- (4) “Extracted forests. Unearthing the role of mining-related deforestation as a driver of global deforestation” with Moritz Kramer, Tobias Kind-Rieper, Stefan Giljum, Victor Maus and more, WWF, Berlin, 2023. [[report](#)]
- (3) “Investigating social inequality of urban green space distribution using Sentinel-2: the case of Vienna” with Lorenz Wimmer and Victor Maus. WU, Ecological Economic Papers, 2023. [[working paper](#)]
- (2) “Do mining activities foster regional development? Evidence from Latin America in a spatial econometric framework” with Stefan Giljum and Tamás Krisztin, WU, Ecological Economic Papers, 2019. [[working paper](#)]
- (1) “An update of demand-based material flow data using the new OECD ICIO database and benchmarking with national data from selected countries” with Stephan Lutter and Stefan Giljum, Organisation for Economic Cooperation and Development (OECD), Paris, 2019.

CONFERENCES AND PRESENTATIONS

2025

Public Lecture (Austrian Latin America Institute, Vienna)

2024

Conference of the International Association for Impact Assessment (IAIA, Dublin), Research Seminar (Institute for Ecological Economics, WU Vienna)

2023

Research Seminar (Federal University of Minas Gerais), Workshop and Special Issue Presentation (JKU Linz, Austrian Journal of Development Studies)

2022

Research Seminar (CBCS, University of Queensland), Conference of the International Society for Industrial Ecology Socio-Economic Metabolism Section (ISIE-SEM, WU Vienna), Research Seminar (Institute for Ecological Economics, WU Vienna), Conference of the European Society for Ecological Economics (ESEE, Pisa)

2021

Young Economists Conference (Austrian Chamber of Labour, Linz), World Resources Forum (online)

2017 - 2020

Research Seminar (Institute for Ecological Economics, WU Vienna, 2020), Research Seminar (IIASA, 2019), European Regional Science Association Congress (ERSA, 2019), Conference of the International Society for Industrial Ecology (ISIE) Socio-Economic Metabolism Section (PIK Potsdam, 2019), Momentum Conference (Hallstatt, 2018, presented by co-author), Austrian Development Conference (Graz, 2017)

TEACHING

Sustainable Economics and Business II (undergraduate, Vienna University of Economics and Business, [2021S](#), [2021W](#))

Thesis supervision: co-supervision of 3 master theses at Vienna University of Economics and Business

PEER REVIEWING AND OTHER PROFESSIONAL ACTIVITIES

Referee: *Nature Communications*, *Nature Sustainability*, *The Extractive Industries and Society*, *Spatial Economic Analysis*, *Mineral Economics*, *Science of the Total Environment*, *Wirtschaft und Gesellschaft*

Member: Editorial team of the *Austrian Journal of Development Studies (JEP)*

RESEARCH GRANTS & AWARDS

2024 WU Award for Outstanding Research Achievements

2023 WU project grant (23,937 EUR)

2023 WU Award for Outstanding Research Achievements

2022 WU mobility grant for PhD candidates (2,000 EUR)

2022 Austrian Agency for Education and Internationalisation (OeAD) Marietta Blau scholarship (9,720 EUR)

2022 WU Award for Outstanding Research Achievements

2021 IIASA Young Scientists Summer Program (4,000 EUR)

2021 WU Award for Outstanding Research Achievements

2020 WU merit scholarship (~1,000 EUR)

2020 WU Award for Outstanding Research Achievements

SKILLS & LANGUAGES

STATISTICAL SOFTWARE & PROGRAMMING: R, Stata, EViews

OTHER: \LaTeX , Git, MS Office, GIS, Bloomberg-Terminal

LANGUAGES: German (native), English (fluent), French (basic), Portuguese (basic)

Last update June 2025