

# Curriculum Vitae

## Sebastian LUCKENEDER

### CONTACT INFORMATION

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### AREAS OF RESEARCH INTEREST

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

### EDUCATION

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<b>Vienna University of Economics and Business</b> , 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
<b>Vienna University of Economics and Business</b> , Austria MSc ECONOMICS, science track, passed with distinction	2016 – 2019
<b>Vienna University of Economics and Business</b> , Austria BSc ECONOMICS, BUSINESS AND SOCIAL SCIENCES, economics track Exchange semester at <b>York University, Schulich School of Business</b> , Toronto, Canada	2011 – 2015
<b>University of Vienna</b> , Austria BA DEVELOPMENT STUDIES	2011 – 2015

### ACADEMIC POSITIONS AND PROFESSIONAL EXPERIENCE

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

## PUBLICATIONS IN REFEREED JOURNALS

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- (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 Feil and Peter Moser, *The Extractive Industries and Society*, 2019. [[publication](#)]

## REPORTS, WORKING PAPERS AND WORK IN PROGRESS

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- (8) “Global metal mining is a growing driver of environmental change” with Stefan Giljum, Victor Maus, Juliana Siqueira-Gay, Laura Sonter, Tim Werner, Anthony Bebbington and more, accepted at *Nature Reviews Earth & Environment*, 2025.
- (7) “EU consumption’s hidden link to global deforestation caused by mining” with Stefan Giljum, Victor Maus, Laura Sonter and Manfred Lenzen, 2024. [[working paper](#)]
- (6) “Transient economic benefit and persistent forest loss: legacy of the Brazilian mining sector” with Victor Maus, Juliana Siqueira-Gay, Tamás Krisztin and Michael Kuhn, R&R *Nature Communications*, 2024.
- (5) “Subnational Variations in the Quality of Population Health Data: A Geospatial Analysis of Household Surveys in Africa” with Valentin Seidler, Andrew Tatem, Patrick Webb, Amelia Finaret and more, accepted at *Nature Communications*, 2023. [[working paper](#)]
- (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

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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

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**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

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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

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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

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STATISTICAL SOFTWARE & PROGRAMMING: R, Stata, EViews

OTHER:  $\text{\LaTeX}$ , Git, MS Office, GIS, Bloomberg-Terminal

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

Last update April 2025