

# 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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**Vienna University of Economics and Business, Austria** expected 2024  
PhD ECONOMICS  
“Modelling the environmental and socio-economic impacts of global mining activities  
in a geospatial assessment framework”  
Doctoral committee: Stefan Giljum, Jesus Crespo Cuaresma, Anthony Bebbington

**Vienna University of Economics and Business, Austria** 2016 – 2019  
MSc ECONOMICS, science track, passed with distinction

**University of Vienna, Austria** since 2015  
MA DEVELOPMENT STUDIES

**Vienna University of Economics and Business, Austria** 2011 – 2015  
BSc ECONOMICS AND SOCIAL SCIENCES, economics track  
Exchange semester at **York University, Schulich School of Business**, Toronto, Canada

**University of Vienna, Austria** 2011 – 2015  
BA DEVELOPMENT STUDIES

### ACADEMIC POSITIONS AND PROFESSIONAL EXPERIENCE

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**Vienna University of Economics and Business, Austria** since 2017  
Research associate at the Institute for Ecological Economics, Global Resource Use research group  
Projects: [ERC FINEPRINT](#), [OeNB Layers](#)

**Federal University of Minas Gerais, Belo Horizonte, Brazil** 2023  
Visiting researcher, collaboration with Dr. Richard van der Hoff

**University of Queensland, Brisbane, Australia** 2022  
Visiting researcher, collaboration with Dr. Laura Sonter and the Land Use, Mining &  
Conservation research group

**International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria** 2021  
Research scholarship, Young Scientists Summer Program (YSSP)

**Upper Austrian Chamber of Labour, Linz, Austria** 2018  
Internship at the Economic and Social Policy Department

**RBI Raiffeisenbank International, Vienna, Austria** 2015 – 2017  
Student support at Market Strategy/Quant Research

## PUBLICATIONS IN REFEREED JOURNALS

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- “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](#)]
- “Undermined efforts? The ambiguous role of mining jobs in a just transition” with Martin Cerny, *Journal für Entwicklungspolitik*, 2023. [[publication](#)]
- “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](#)]
- “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](#)]
- “Surge in global metal mining threatens vulnerable ecosystems” with Stefan Giljum, Anke Schaffartzik, Victor Maus and Michael Tost, *Global Environmental Change*, 2021. [[publication](#)]
- “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](#)]
- “Ecosystem services costs of metal mining and pressures on biomes” with Michael Tost, Diego Murguía, Michael Hitch, Stephan Lutter, Susanne Feiel and Peter Moser, *The Extractive Industries and Society*, 2019. [[publication](#)]

## REPORTS, WORKING PAPERS AND WORK IN PROGRESS

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- “Brazilian mining yields transient economic growth while forest loss depends on regulation” with Victor Maus, Juliana Siqueira-Gay, Tamás Krisztin and Michael Kuhn, submitted.
- “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, R&R *Nature Communications*, 2023. [[working paper](#)]
- “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](#)]
- “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](#)]
- “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](#)]
- “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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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), Internal 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

Internal 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: *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)*

## GRANTS & AWARDS

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2023 WU project grant (23,937 EUR)

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

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

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

2020 WU merit scholarship (~1,000 EUR)

## SKILLS & LANGUAGES

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STATISTICAL SOFTWARE & PROGRAMMING: R, Stata, EViews

OTHER: L<sup>A</sup>T<sub>E</sub>X, Git, MS Office, GIS, Bloomberg-Terminal

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

Last update January 2024