

# Dr. Christian Dorninger

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## Research Positions

08/2021-present Postdoctoral researcher, Institute of Social Ecology, BOKU University, Vienna, Austria

04/2019-07/2022 Postdoctoral research fellow, topic: *niches for sustainability*  
Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria

10/2015-03/2019 Research fellow, *biophysical human-nature connectedness*  
Faculty of Sustainability, Leuphana University, Lüneburg, Germany

04/2018-06/2018 Guest researcher, *environmentally-extended input-output analysis*  
Department of Geography, University of Maryland, USA

01/2018-03/2018 Guest researcher, *human appropriation of net primary production*  
Institute of Social Ecology, BOKU University, Vienna, Austria

08/2014-11/2014 Guest researcher, *ecologically unequal exchange*  
Human Ecology Division, Lund University, Sweden

08/2011-10/2011 Intern, *data for biophysical infrastructure*  
Institute of Social Ecology, Alpen-Adria-University Klagenfurt, IFF Vienna, Austria

## Educational Background

10/2015-09/2019 PhD Faculty of Sustainability, Leuphana University Lüneburg, Germany (Dr. rer. nat.), "*Leverage points for sustainability transformation*", <https://leveragepoints.org/>, <https://www.leuphana.de/en/graduate-school/doctorate.html>

03/2012-03/2016 M.Sc. Social and Human Ecology, Institute of Social Ecology (SEC) University of Klagenfurt (today BOKU), Austria, <https://boku.ac.at/en/wiso/sec>

09/2012-01/2013 Technological and Socio-Economic Planning, Roskilde University Center, Denmark, <https://ruc.dk/kandidat/teksam-miljoepanlaegning-geografi>

10/2008-03/2014 Mag. Development Studies, University of Vienna, Austria <https://ie.univie.ac.at/en/>

10/2008-02/2012 BA Sociology, University of Vienna, Austria <https://www.soz.univie.ac.at/en/>

## Relevant Experience (Selection)

- 2021-2022: International trade, resource use, and ecologically unequal exchange: The case of LDCs; UNCTAD secretariat for the 2022 edition of the Least Developed Countries Report (UNCTAD consultancy), position: PI
- 2022-ongoing: Household GHG footprints and Austrian climate policy: identifying leverage points for demand-side mitigation (FOCAL-points), funded by: ACRP, position: Co-PI
- 2021-2022: Special Report by the Austrian Panel for Climate Change (APCC): "Challenges and opportunities in reaching the Paris Agreement - Structural conditions for climate friendly living", funded by: ACRP, position: lead author
- 2022-ongoing: City of Vienna as a circular economy? Options and limitations of transforming a city towards circularity (VICE), funded by: City of Vienna, position: researcher
- 2021-2022: Monitoring of CO<sub>2</sub> emissions and material use in the city of Vienna (MoCAM), funded by: City of Vienna, position: researcher
- 2021-ongoing: EPICUR Research Agenda - Shaping European Society in Transition (EPICUR Research), funded by: European Union's Horizon 2020 research and innovation program, position: researcher

## Published Peer Reviewed Publications

- Hickel, J., **Dorninger, C.**, Wieland, H., Suwandi, I., 2022. Imperialist appropriation in the world economy: drain from the global south through unequal exchange, 1990–2015. *Globl. Environ. Chang.* 73, 102467. <https://doi.org/10.1016/j.gloenvcha.2022.102467>
- Franco, M.P.V., Molnár, O., **Dorninger, C.**, Laciny, A., Treven, M., Weger, J., Albuquerque, E.M., Gatti, R.C., Villaneuva Hernandez, L.A., Jakab, M., Marizzi, C., Menéndez, L.P., Poliseli, L., Rodríguez, H.B., Caniglia, G. Diversity regained: precautionary approaches to COVID-19 as a phenomenon of the total environment. *Sci. Total Environ.* 825, 154029. <https://doi.org/10.1016/j.scitotenv.2022.154029>
- Dorninger, C.**, von Wehrden, H., Krausmann, F., Kuishuang, F., Hubacek, K., Bruckner, M., Erb, K.-H., Abson, D.J., 2021. The effect of industrialization and globalization on domestic land-use: A global resource footprint perspective. *Globl. Environ. Chang.* 69, 102311. <https://doi.org/10.1016/j.gloenvchag.2021.102311>
- Dorninger, C.**, Hornborg, A., Abson, D.J., von Wehrden, H., Feller, R., Engler, J.-O., Giljum, S., Schaffartzik, A., Hubacek, K., Wieland, H., 2021. Global patterns of ecologically unequal exchange: Implications for sustainability in the 21<sup>st</sup> century. *Ecol. Econ.* 179, 106824. <https://doi.org/10.1016/j.ecolecon.2020.106824>
- Gatti, R.C., Menéndez, L.P., Laciny, A., Rodríguez, H.B., Morante, G.B., Carmen, E., **Dorninger, C.**, Fabris, F., Grunstra, N.D.S., Schnorr, S.L., Caniglia, G., 2021. Diversity lost: COVID-19 as a phenomenon of the total environment. *Sci. Total Environ.* 756, 144014. <https://doi.org/10.1016/j.scitotenv.2020.144014>
- Dorninger, C.**, Abson, D.J., Klaniecki, K., Derwort, P., Langsenlehner, M., Spittler, N., Lam, D., Apetrei, C., Riechers, M., Ives, C.D.; von Wehrden, H., 2020. Leverage points for sustainability transformation: a review on interventions in food and energy systems. *Ecol. Econ.* 171, 106570. <https://doi.org/10.1016/j.ecolecon.2019.106570>
- Rau, A.-L., Burkhardt, V., **Dorninger, C.**, Hjort, C., Ibe, K., Keßler, L., Kristensen, J.A., McRobert, A., Sidemo-Holm, W., Zimmermann, H., Abson, D.J., von Wehrden, H.,

- Ekroos, J., 2019. Temporal patterns in ecosystem services research: A review and three recommendations. *Ambio*. <https://doi.org/10.1007/s13280-019-01292-w>
- Horcea-Milcu, A.I., Abson, D.J., Apetrei, C.I., Alexandra, I., Rebecca, D., Riechers, M., Lam, D.P.M., **Dorninger, C.**, Lang, D.J., 2019. Values in transformational sustainability science: four perspectives for change. *Sustain. Sci.* <https://doi.org/10.1007/s11625-019-00656-1>
- Fischer, J., Horcea-Milcu, A.I., Lang, D.L., Thale-Bombien, L., Abson, D.J., Apetrei, C.I., Clarke, E., Derwort, P., **Dorninger, C.**, Duse, I.A., 2019. Balance Brings Beauty: Strategies for a Sustainable Southern Transylvania. Pensoft Publishers. [https://leveragepointsdotorg.files.wordpress.com/2019/03/balance-brings-beauty\\_en.pdf](https://leveragepointsdotorg.files.wordpress.com/2019/03/balance-brings-beauty_en.pdf)
- Ives, C.D., Abson, D.J., von Wehrden, H., **Dorninger, C.**, Klaniacki, K., Fischer, J., 2018. Reconnecting with nature for sustainability. *Sustain. Sci.* 1–9. <https://doi.org/10.1007/s11625-018-0542-9>
- Dorninger, C.**, Abson D. J., Fischer, J., von Wehrden H., 2017. Assessing sustainable biophysical human-nature connectedness at regional scales. *Environ. Res. Lett.* 12. <https://doi.org/10.1088/1748-9326/aa68a5>
- Ives C.D., Giusti M., Fischer J., Abson D.J., Klaniacki K., **Dorninger C.**, Laudan J., Barthel S., Abernethy P., Martín-López B., Raymond C.M., Kendal D. and von Wehrden H. 2017 Human–nature connection: a multidisciplinary review *Curr. Opin. Environ. Sustain.* 26–27 106–13. <https://doi.org/10.1016/j.cosust.2017.05.005>
- Dorninger, C.**, Eisenmenger, N., 2016. South America's biophysical involvement in international trade: the physical trade balances of Argentina, Bolivia, and Brazil in the light of ecologically unequal exchange. *J. Polit. Ecol.* 23, 394–409. <https://doi.org/10.2458/v23i1.20240>
- Dorninger, C.**, Hornborg, A., 2015. Can EEMRIO analyses establish the occurrence of ecologically unequal exchange? *Ecol. Econ.* 119, 414–418. <https://doi.org/10.1016/j.ecolecon.2015.08.009>

## **Research areas**

Ecological Economics  
Embodied Resource Flows  
Environmentally-Extended Input-Output Analysis (EEIOA)  
International Trade  
Material and Energy Flow Analysis (MEFA)  
Resource and Land Use  
Resource Footprints  
Social-ecological Systems  
Sustainability transformation

## **Computer skills**

Data analysis: R, Github, SPSS, Python  
Editing: MS Office/Powerpoint, Linux  
Data management: MS Excel

## **Languages**

German (mother tongue), English (excellent), French (basic)

## **Peer Reviewer for Academic Journals**

Ecological Economics  
Ecology and Society  
Ecosystems and People  
Environmental Sociology  
Journal of Cleaner Production  
Journal of Industrial Ecology  
Nature Food  
Nature Sustainability  
Philosophical transactions of the Royal Society B-Biological Sciences  
PNAS  
Sustainability  
Sustainability Science  
The Extractive Industries and Society  
The Lancet Planetary Health  
World Development