

Executive Director
Environment and Climate Research Hub
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Research Fellow
C-EENRG
University of Cambridge

[Google Scholar](#)

[C-EENRG Profile](#)

Employment

IIASA	06/2024 - current
University of Vienna Senior Scientist, Environment and Climate Hub	03/2023 – 05/2024
European Commission - Joint Research Centre Project Officer, Unit D5: Sustainable Resources and Food Security	02/2020 – 02/2023
Radboud University, Nijmegen NL PostDoctoral Researcher, Dept. Environmental Sciences	02/2017 – 09/2019
European Commission - Joint Research Centre Project Officer, Unit B7: Innovation policies and Economic Impact	01/2014 – 12/2016
Tsinghua University, Beijing CN Visiting Scholar, Centre of Earth Systems Research	04/2013 - 11/2013
University of Cambridge Research assistant, Department of Land Economy	11/2009 - 03/2013

Education

University of Cambridge, UK <ul style="list-style-type: none">• PhD in Environmental Economics• Thesis: <i>Disaggregating the Electricity Sector in Chinese Input-Output Tables: Applications to Environmental-Economic Analysis</i>• Supervisor: Dr. Dabo Guan	11/2009 – 03/2013
University of Kiel, GER <ul style="list-style-type: none">• MSc in Environmental Economics and Management• Thesis: <i>Economic and Environmental Assessment of Carbon Capture and Storage (CCS) Power Plants – A case study for the city of Kiel</i>	10/2006 – 04/2009
University of Virginia, USA <ul style="list-style-type: none">• BSc in Environmental Sciences	09/2002 – 06/2006

Leadership & Impact

Environment and Climate Hub (ECH) 03/2023 – current

- Research Coordinator of a newly built Centre at the University of Vienna
- Leading a team to facilitating communication, organisation and impact for the ECH
- Develop and define interdisciplinary research agendas for the ECH
- Conducting and leading research workshops for 65 inter- and transdisciplinary hub members involving team- and capacity building exercises

European Commission (JRC) 01/2014 – 02/2023

- Conducted and led research on energy and environmental-economic modelling
- Developed a new (insert specific thing – the thing you should develop for Franz at the end?) within the integrated assessment model utilizing GAMS
- Communicated scientific findings to policymakers at DG Env, DG Ener and DG Agri
- Engaged professionally with European Stakeholders and Policymakers
- Worked and collaborated in an international research team
- Policy reports and publications

Radboud University 02/2017 -09/2019

- Co-investigator at the Food-Water-Energy (FWE) Nexus project, a collaboration between Brazilian, British and Dutch Researchers
- Jointly developed FWE policy framework together with Ministries in Brazil
- Built a bottom-up technology model inside larger integrated assessment model for energy and emissions analysis
- Publications
- Conferences (especially the one you say that is super important?)

University of Cambridge Consulting Programme 01/2011 -12/2012

- Identified strategic market entry opportunities for a Cambridge-based start-up on CCS
- This was a competitive program where you applied and won something, right? Or so, specify if this is competitive
- The company was awarded with the regional Shell Springboard award (20.000€)

Skills

Quantitative Modelling:

- 10 years of experience of developing bottom-up sectoral technology models (energy, electricity, agriculture)
- Add details on the models you worked with
- Add details on the different tool boxes or what ever you developed
- Extensive work with global, multi-sectoral integrated assessment models
- Statistical Energy, Environmental and Emissions Accounting

Programming: Matlab, GAMS, R (incl. GIS spatial package), Python

Languages: German (Native), English (Fluent), Spanish (C1), Italian (B1)

Publications

Peer-Reviewed Articles

“Global Agricultural ammonia emission transfers impact air quality and health”. Zhang, B., Ma R., Li K., Zhao X., **Lindner, S.**, Meng, J., Guan, C., Chen, G., Sun, X. (2021) [Nature Communication](#) 12 (1) 1-13.

“Mainstreaming the Water-Energy-Food Nexus through NDC Processes: An Assessment of a Policy Strategy” Paim, M., Yang, C., Salas, P., **Lindner, S.**, Mercure, J. (2020). [Climate Policy](#) 20 (2), 163 -178.

“System complexity and policy integration challenges: The Brazilian Energy-Water-Food Nexus” Mercure, J.-F. Paim, M.A. Bocquillon, P. **Lindner, S.** Salas, P. Martinelli, P., Berchin, I. Ode Andrade Guerra, J.B.S. Derani, C. de Albuquerque Junior, C.L. Ribeiro, J.M.P. Knobloch, F. Pollitt, H. Edwards, N.R. Holden, P.B. Foley, A. Schaphoff, S. Faraco, R.A. Vinuales, J.E. (2019). [Renewable and Sustainable Energy Reviews](#) 105. (2019) 230-243.

“A hybrid-unit energy input-output model to evaluate embodied energy and life cycle emissions for China’s Economy” **Lindner, S.** and D. Guan (2015) [Journal of Industrial Ecology](#), Volume 18, Issue 2, Page 201-211.

Paper nominated for the **Laudise Young Researcher Prize**

“CO₂ Emissions from Chinas Power Sector at the province level: Consumption versus Production Perspectives” **Lindner, S.**, L. Zhu, D. Guan, G. Yong, and X. Li (2013). [Renewable and Sustainable Energy Reviews](#) , Volume 19, Page 164-172.

“Disaggregating the electricity sector of China's input-output table for improved environmental life-cycle assessment”. **Lindner, S.**, J. Legault and D. Guan (2013). [Economic Systems Research](#), Volume 25, Issue 3, Page 300-320 (<https://doi.org/10.1080/09535314.2012.746646>).

This paper has been award the **Leontief Prize 2012** by International Input-Output Association.

“The gigatonne gap in China’s carbon dioxide inventories”. Guan D., Z. Liu, Y. Geng, **S. Lindner** and K. Hubacek (2012). [Nature Climate Change](#), Volume 2, Page 672–675. The paper has received extensive international attentions and been reported by 40+ media in different languages (see section on “In the press”).

“Embodied Energy Use in China’s Industrial Sectors” Liu Z., Y. Geng **S. Lindner**, H. Zho, T. Fujita and D. Guan (2012). [Energy Policy](#), Volume 49, Page 751-758

“Uncovering China’s greenhouse gas emission from regional and sectoral perspectives”. Liu, Z., Y. Geng, **S. Lindner**, and D. Guan (2012). [Energy](#), Volume 49, Issue 1, Page 1059-1068

“Disaggregating input-output models with incomplete information” **Lindner, S.**, J. Legault and D. Guan (2012) [Economic Systems Research](#), Volume 24, Issue 4, Page 329-347

“An economic and environmental Assessment of Carbon Capture and Storage (CCS) Power Plants – a Case Study for the City of Kiel” **Lindner, S.**, Peterson, S., Windhorst, W., (2010). [Journal of Environmental Planning and Management](#). Volume 53, Issue8. This publication was the result of my Masters Thesis.

Reports and Book Chapters

“Estimating future emissions from land use, land use change and forestry”
Mubareka, S., La Notte, A., Abad Viñas, R., Avitabile, V., Ballabio, C., Blujdea, V., **Lindner, S.**, Lugato, E., Perez Dominguez, I., Pilli, R. and Rossi, S., (2023) [JRC Technical Report](#), EUR 31489 EN, Publications Office of the European Union, Luxembourg, 2023, ISBN 978-92-68-02764-6

“World Input-Output Database Environmental Accounts. Update 2000-2016”
Corsatea T.D., **Lindner S.**, Arto, I., Román, M.V., Rueda-Cantuche J.M., Velázquez Afonso A., Amores A.F., Neuwahl F., (2019) [JRC Technical Report](#), EUR 29727 EN, Publications Office of the European Union, Luxembourg, 2019, ISBN 978-92-76-02068-4

Scaling up Mitigation Technologies in Integrated National Energy and Climate Plans
Williges, K., Gaast, W., Tuerk, A., Szendrej, K., Flamos A., Lindner, S., Papadelis, S., (2018) CARISMA Synthesis Report for WP4.5. [CARISMA project](#)

“Global drivers of CO2 emissions from energy efficiency and technology improvement in industries” **Lindner S.**, Wood, R. Rueda-Cantuche, J. (2017) [Guest Chapter](#) in the Book “Environmental and economic impacts of decarbonization. Input-output studies on the consequences of the 2015 Paris agreements” Routledge. Co- Editor: Lenzen, M. Routledge. ISBN 978-0-415-78740-6, p. 185-204

“Measuring Embodied Emissions Flows for the Interdependent Economies within China”
Lindner S., Guan D and Hubacek, K. (2015) [Routledge Handbook of Environmental Economics in Asia](#) Chapter 28, 18 pages. ISBN: 9781315746289 Chief Editor: Managi, S. Routledge, 2015

Policy Briefs

“How should international institutions promote research and innovation collaboration for climate change mitigation?” **Lindner, S.** and de Coninck H. (2018). Policy Brief based on a mapping of existing international initiatives. Published in the [CARISMA Policy Brief Series](#)

“Towards a European research and innovation agenda for the Paris Agreement goals”
Lindner, S., de Coninck, H, Bossner, S., Elkerbout, M., Tuerk, A., Williges, K. (2018). [CARISMA Synthesis Report](#)

Papers in Progress

“Can true pricing of food products in EU lead to health benefits?” Hristov J., Moz-Christofoletti M., Leip A., Weiss F., Vandyck T., Perez-Dominguez I., Fellmann T., and Lindner S. Conference Paper, European Association of Agricultural Economics.

Teaching

Radboud University, Department of Environmental Sciences 04/2017 – 04/2018

- Course: “Energy and Climate” – Masters of Science and Innovation
- Course: *Climate and Decarbonisation Policy*, Radboud Summer School
- Co-Supervision: MA-Thesis, postgraduate level

University of Cambridge, Department of Land Economy 09/2013 – 12/2013

- Supervision of Macroeconomics Paper, undergraduate module

Awards & Honours

Laudise Young Researcher Prize Nominee 2015
International Society of Industrial Ecology for my Paper " A hybrid-unit energy input-output model to evaluate embodied energy and life cycle emissions for China’s Economy”
[Journal of Industrial Ecology](#), Volume 18, Issue 2, Page 201-211

Leontief best young researcher Prize 2012
By the **International Input-output Association** for my paper on “Disaggregating the Electricity Sector of China’s Input Out table: Application to Environmental-Economic Life Cycle Analysis”

Nature Climate Change paper 2012
on China’s emission uncertainties is reported worldwide by 40+ media in different languages

Grants & Fellowships

Tsinghua University, Beijing China 04/2013-11/2013
Research Fellowship Award
6 months visiting Fellow (9000 Euros)
Centre of Earth Systems Research, Beijing China

Chinese Academy of Sciences, Shenyang China 10/2011 –12/2011
Research Fellowship Award
3 months visiting Fellow (4.500 Euros)
Dept. of Energy and Environmental Accounting

Cambridge Econometrics, Cambridge UK 01/2010 – 12/2012
10.000 Euros to fund my PhD

German Academic Exchange Programme (DAAD) 01/2010 – 12/2012
25.000 Euros research exchange grant for my PhD

Media Coverage

May 2017: UNFCCC Bonn Climate Change Conference: International collaboration on R&D for climate change mitigation

Side-event on Global Research and Development Cooperation in Climate Technologies: Opportunities and Challenges at the UNFCCC Bonn Climate Change Conference. The side-event explored the implications of global research and development (R&D) cooperation, including with emerging economies, on development and transfer of mitigation technologies. [UNFCCC Climate Conference Bonn](#)

June 2012: Paper on “**The gigatonne gap in China’s carbon dioxide inventories**” in *Nature Climate Change* has received world attention and reported by over 30 medias globally in over 10 different languages. Selective Press release: [Chicago Tribune](#); [Scientific American](#); [Yahoo! News](#); [New Scientist](#); [Guardian](#); [The Economist](#); [Nature](#); [Reuters Brazil](#); [Reuters China](#); [Yahoo! Hong Kong](#); [China Post](#); [Le Figaro](#); [La Repubblica](#); [Le Matin](#).

Selected Talks and Workshops

Invited Talks & Workshops

Brazilian Stakeholder Consultation 09/2018
Brasilia, BR
Consultation workshop at the Ministry of Water (ANA) and Energy (MME)

Food-Water-Energy Nexus Workshop 06/2018
Newnham College, Cambridge, UK
Invited talk: *Assessing Nexus complexities throughout policy analysis and sector modelling*

EU Stakeholder Meeting Climate Policy 04/2018
Amsterdam, NL
CARISMA Project workshop:
“Towards a European research and innovation agenda for the Paris Agreement goals”

UNFCCC, Climate Conference Side Event 05/2017
Bonn, GER
Invited talk: *“International research collaboration for climate mitigation technologies”*

International Input-Output Association Conference 06/2012
Bratislava, SLO
Keynote Speech: *“Disaggregating Input-Output models with incomplete information”*

Referees

Dr. Jean Francois Mercure
Associate Professor in Climate Change Policy
University of Exeter
J.Mercure@exeter.ac.uk

Professor Dr. Dabo Guan
Professor in Climate Change Economics and the Low Carbon Transition
University College London
d.guan@ucl.ac.uk