

## CURRICULUM VITAE

# NICOLAS T. KOCH

Mercator Research Institute on Global Commons and Climate Change  
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### CURRENT POSITIONS

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- 1/2020– **Head of Policy Evaluation Lab**  
10/2013– **Researcher**  
at Mercator Research Institute on Global Commons & Climate Change
- 8/2017– **Research Affiliate** at RWI - Leibniz Institute for Economic Research
- 11/2020– **Research Fellow** at IZA - Institute of Labor Economics

### PAST POSITIONS

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- 6/2009–9/2013 Research Assistant and PhD student at the Chair of Capital Markets and Management  
(Prof Alexander Bassen), University of Hamburg
- 3/2013 Visiting Lecturer at BEM Bordeaux Management School
- 4/2012–5/2012 Visiting Researcher at the Environmental & Energy Finance Group  
(with Prof Raphael Markellos), University of East Anglia

### EDUCATION

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- 9/2013 PhD (summa cum laude)  
UNIVERSITY OF HAMBURG  
Supervisors: Prof Alexander Bassen; Prof Hermann Held  
Topic: Essays in Finance, Energy and Emissions Trading
- 5/2009 MSc (Diplom) in Economics (with distinction)  
UNIVERSITY OF HAMBURG
- Undergraduate and Graduate Studies in Economics  
UNIVERSITY OF HAMBURG (2006–09)  
UNIVERSITÉ PARIS I PANTHÉON-SORBONNE (2007–08)  
CHRISTIAN ALBRECHTS UNIVERSITY KIEL (2005–06)  
PHILIPPS-UNIVERSITY MARBURG (2003–05)

## RESEARCH

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### Research Interest

Environmental and Energy Economics, Urban and Transportation Economics, Health Economics, and Applied Microeconomics

### Journal Articles

Kraus, S., Koch, N. (2021): Provisional COVID-19 infrastructure induces large, rapid increases in cycling, *Proceedings of the National Academy of Sciences*, 118 (15).

Creutzig, F., Javaid, A., Koch, N., Knopf, B., Mattioli, B., Edenhofer, O. (2020): Adjust urban and rural road pricing for fair mobility, *Nature Climate Change*, 10, 591-594.

Rohlf, A., Holub, F., Koch, N., Ritter, N. (2020): The effect of clean air on pharmaceutical expenditures, *Economics Letters*, 192, 109-221.

Koch, N., Basse Mama, H. (2019): Does the EU Emissions Trading System induce investment leakage? Evidence from German multinational firms, *Energy Economics*, 81, 479-492.

Koch, N., zu Ermgassen, E., Wehkamp, J., Oliveira Filho, F., Schwerhoff, G. (2019): Agricultural Productivity and Forest Conservation: Evidence from the Brazilian Amazon, *American Journal of Agricultural Economics*, 101(3), 919-940.

Fuss, S., Flachsland, C., Koch, N., Kornek, U., Knopf, B., Edenhofer, O. (2018): An assessment framework for intertemporal economic performance of cap-and-trade systems: lessons from the EU-ETS, *Review of Environmental Economics and Policy*, 12(2), 220-241.

Grosjean, G., Fuss, S., Koch, N., Bodirsky, B., De Cara, S., Acworth, W. (2018): Options to overcome the barriers to pricing European agricultural emissions, *Climate Policy*, 18(2), 151-169.

Golub, A., Fuss, S., Lubowski, R., Hiller, J., Khabarov, N., Koch, N., Krasovskii, A., Kraxner, F., Laing, T., Obersteiner, M., Palmer, C., Piris-Cabezas, P., Reuter, W., Szolgayová, J., Taschini, L. Wehkamp, J. (2018): Escaping the climate policy uncertainty trap: options contracts for REDD+, *Climate Policy*, 18(10), 1227-1234.

Wehkamp, J., Pietsch, S., Fuss, S., Gusti, M., Reuter, W., Koch, N., Kindermann, G., Kraxner, F. (2018): Accounting for institutional quality in global forest modeling, *Environmental Modelling & Software*, 102, 250-259.

Zimmer, A., Koch, N. (2017): Fuel Consumption Dynamics in Europe: Tax Reform Implications for Air Pollution and Carbon Emissions, *Transportation Research Part A: Policy and Practice*, 106, 22-50.

Wehkamp, J., Koch, N., Fuss, S., (2017): Governance and deforestation - A meta-analysis in economics, *Ecological Economics*, 144, 214-227.

Algieri, B., Kalkuhl, M., Koch, N. (2017): A tale of two tails: Explaining extreme events in financialized agricultural markets, *Food Policy*, 69, 256-269.

Koch, N., Reuter, W., Fuss, S., Grosjean, G. (2017): Permits vs. offsets under investment uncertainty, *Resource and Energy Economics*, 49, 33-47.

Koch, N., Grosjean, G., Fuss, S., Edenhofer, O. (2016): Politics matters: Regulatory events as catalysts for price formation under cap-and-trade, *Journal of Environmental Economics and Management*, 78, 121-139.

Koch, N., Fuss, S., Grosjean, G., Edenhofer, O. (2014): Causes of the EU ETS price drop: Recession, CDM, renewable policies or a bit of everything?—New evidence, *Energy Policy*, 73, 676-685.

Koch, N. (2014): Tail events: A new approach to understanding extreme energy commodity prices, *Energy Economics*, 43, 195-205.

Koch, N. (2014): Dynamic linkages among carbon, energy and financial markets: A smooth transition approach, *Applied Economics*, 46, 715-729.

Koch, N., Bassen, A. (2013): Valuing the carbon exposure of European utilities. The role of fuel mix, permit allocation and replacement investments, *Energy Economics*, 36, 431-443.

Basse-Mama, H., Koch, N., Bassen, A., Bank, T. (2013): Valuation effects of corporate strategic transactions in the cleantech industry, *Journal of Business Economics*, April 2013.

### Working Papers

Koch, N., Nguyen, P., Ritter, N., Rohlf, A. (2020): Machine Learning from Big GPS Data about the Costs of Congestion.

Klauber, H., Koch, N., Ritter, N., Rohlf, A., Holub, F. (2020): What driving bans tell us about the lasting health legacy of diesel pollution, EAERE 2020 Conference Paper.

Kraus, S., Heilmayr, R., Koch, N. (2020): Spillovers to manufacturing plants from multi-million dollar plantations: evidence from the Indonesian palm oil boom.

Kraus, S., Liu, J., Koch, N., Fuss, S. (2020): Protecting forests with large scale community land titling in Indonesia: Evidence from the first million hectares.

Klauber, H., Kraus, S., Koch, N. (2020): Air pollution and COVID-19: Evidence from global district-level case counts and thermal inversions.

Helm, I., Koch, N., Rohlf, A. (2020): The Effects of Cash for Clunkers on Local Air Quality.

Themann, M., Koch, N. (2018): Catching up and falling behind: Cross-country evidence on the impact of the EU ETS on productivity growth, WCERE 2018 Conference Paper.

Burghaus, K., Koch, N., Bauer, J., Edenhofer, E. (2018): Lobbying, relocation risk and allocation of free allowances in the EU ETS, CPLC Conference Paper.

Koch, N., Markellos, R. (2016): The pricing of environmental risks with non-pecuniary benefits, EAERE 2017 Conference Paper.

Knopf, B., Koch, N., Grosjean, G. Fuss, S., Flachsland, C., Pahle, M., Jakob, M., Edenhofer, O. (2014): The European Emissions Trading System (EU ETS): ex-post analysis, the market stability reserve and options for a comprehensive reform, FEEM Nota di Lavoro, 79.2014.

#### Media coverage

Handelsblatt, Tagesspiegel, Welt, Frankfurter Rundschau, Hamburger Abendblatt, Handelszeitung, WDR, BR

#### **TALKS AT CONFERENCES, SEMINARS & WORKSHOPS**

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| 2020 | 25th Annual Conference of the EAERE, Berlin<br>Virtual Meeting of the Urban Economics Association<br>TWEEDS   |
| 2019 | 24th Annual Conference of the EAERE, Manchester   |
| 2018 | 6th World Congress of Environmental and Resource Economists, Gothenburg<br>FZU-ZEW EnvEcon Seminar, Mannheim  |
| 2017 | 23rd Annual Conference of the EAERE, Athens<br>AERE Summer Conference, Pittsburgh<br>European Climate Foundation's Dialogue Forum on EU ETS, Berlin   |
| 2016 | Research Seminar Environmental Economics and Management, Hamburg<br>22nd Annual Conference of the EAERE, Zurich<br>Research Seminar on Environment, Resource and Climate Economics, Berlin  |
| 2015 | FSR Climate 2015 Annual Conference, Florence<br>Tsinghua-Hertie-USC Energy Policy Exchange Forum, Beijing<br>3rd International Symposium on Energy and Finance Issues (ISEFI-2015), Paris<br>envecon 2015, London<br>59th AARES Annual Conference, Rotorua, New Zealand |
| 2014 | 3rd CEC Conference on "Emission trading in the 2030 framework", Paris<br>Euro-CASE Workshop on EU ETS, Brussels<br>5th Research Workshop on Energy Markets, Valencia  |

- 2013 Energy Finance Conference 2013, Essen  
10th European Energy Market Conference (EEM13), Stockholm
- 2012 PRI-CBERN Academic Network Conference, Toronto  
9th BIEE Academic Conference, Oxford
- 2011 5th CSDA Conference on Computational & Financial Econometrics (CFE'11), London
- 2010 33rd IAEE International Conference, Rio de Janeiro  
8th Workshop of PhD Student Chapters of GEE, Mannheim

## REFEREE SERVICE

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*Climate Policy; Climatic Change; Ecological Economics; Economic Modelling; Energy Economics; Energy Policy; Journal of Applied Statistics; Journal of Environmental Economics and Management; Journal of the Association of Environmental and Resource Economists; Nature Climate Change; Macroeconomic Dynamics; Scandinavian Journal of Economics*

## TEACHING EXPERIENCE

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*Climate policy analysis* (Master)

Seminar (English) with Matthias Kalkuhl  
University of Potsdam, Summer 2020

*Statistics II – Time Series, Panel Data and Limited Dependent Variables* (Master)

Lecture (English) with Jan Christoph Minx  
Hertie School of Governance, Winter 2015 and 2016

*The Economics of Climate Change* (Lecture by Ottmar Edenhofer) (Master)

Tutorial (English) with Jan Steckel/Gregor Schwerhoff/Lion Hirth  
Technical University of Berlin, Summer 2014 and 2015

*Environmental, Social, Governance (ESG) and Capital Markets* (Master)

Lecture (English)  
BEM Bordeaux Management School, March 2013

*Valuation* (Bachelor)

Seminar (German)  
University of Hamburg, Summer 2010 and 2013, Winter 2010, 2011, 2012

*Investments* (Bachelor)

Two tutorials (German)  
University of Hamburg, Winter 2009, 2010, 2011, 2012

*Financial Management* (Executive Education)

Lecture (German)  
University of Hamburg, Summer 2012, 2013, 2014, 2015, 2016, 2018, 2019

*Environmental, Social and Corporate Governance* (Bachelor)  
Lecture (German) with Alexander Bassen  
University of Hamburg, Summer 2010

## MISCELLANEOUS

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### Memberships

Member of the European Association of Environmental and Resource Economists (EAERE)

Member of the Association for Student Exchange Programs in Central and Eastern Europe (GFPS e.V.)

### Languages

German (native), English (fluent), French (high proficiency), Polish (basic knowledge)

### Programming Skills

Stata, MatLab, R, GAUSS, EViews, L<sup>A</sup>T<sub>E</sub>X

### Personal

Born 1983. German citizen. Married with one child.