

CURRICULUM VITAE

NICOLAS T. KOCH

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CURRENT POSITIONS

1/2020– **Head of Policy Evaluation Lab**

10/2013– **Researcher**

at Mercator Research Institute on Global Commons & Climate Change

8/2017– **Affiliated Researcher** at RWI - Leibniz Institute for Economic Research

PAST POSITIONS

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

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

Research Interest

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

Journal Articles

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.

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

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

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

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^AT_EX

Personal

Born 1983. German citizen. Married with one child.