

Curriculum Vitae: Ulrike Kornek

Dr Ulrike Kornek

Mercator Research Institute on Global Commons and Climate Change

E-Mail: kornek@mcc-berlin.net

Professional Experience:

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| 05/2015 – ongoing | Postdoctoral researcher at Mercator Research Institute on Global Commons and Climate Change |
| 11/2014 – 04/2015 | Researcher at Potsdam Institute for Climate Impact Research |

Education:

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| 06/2011 – 10/2014 | PhD student at Potsdam Institute for Climate Impact Research and the Technische Universität Berlin
Grade: summa cum laude
Thesis-title: Designing International Climate Agreements: An Economic Analysis of Free-riding Incentives
Supervisor: Prof. Ottmar Edenhofer
External reviewer: Prof. Carlo Carraro |
| 10/2005 – 04/2011 | Physics (diploma) at the Otto-von-Guericke University Magdeburg, Germany
Grade: 1.0 (with distinction) |
| 08/2003 – 06/2005 | Johann-Joachim Winckelmann Gymnasium Stendal, Germany
Abitur
Grade: 1.0 |
| 08/2002 – 06/2003 | Hillsboro-Highschool, 67063 Hillsboro, Kansas, USA |

Project work:

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| 12/2016 – ongoing | EU ETS Dialogue Forum with German stakeholders (European Climate Foundation) |
| 11/2014 – 10/2015 | Co-coordination of the stakeholder dialogue for the funding measure „Economics of Climate change“ (BMBF), Subject „Internationale Klimapolitik“, together with ISI Karlsruhe und PIK Potsdam |
| 12/2011/ – 12/2014 | Member of BMBF-tender project “Climate Policy in a Reluctant Word: From Second-Best Approaches to Global Cooperation” (BMBF) |

Additional research (selected):

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| 03/2017 – 04/2017 | Research stay at the Princeton University with Prof. Marc Fleurbaey from the Woodrow Wilson School |
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02/2010 – 03/2010	Research stay at Takezoe & Ishikawa Laboratory, Department of organic and polymeric materials, Tokyo Institute of Technology, Tokyo, Japan
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Teaching (short):

2012 – ongoing	Master courses in climate change economics and policy at the Technische Universität Berlin
2016 – ongoing	Master courses in climate policy and governance at the Hertie School of Governance in Berlin
2008 – 2010	Student assistant for Bachelor and Master Courses in physics at the Otto-von-Guericke University Magdeburg

Organization of events and seminars (selected):

2016-ongoing	Co-organization of the seminar series “Research Seminar on Environment, Resource and Climate Economics” together with DIW Berlin, TU Berlin, HU Berlin, and RWI Essen
2017	Co-organization of the BMBF climate forum “Nach der COP 22 in Marrakesch - Weitere Schritte zur Umsetzung des Pariser Abkommens”
2016	Co-organization of the BMBF climate forum “Gerechter Klimaschutz - Geht das?”

Scholarships and Awards:

2013	Scholarship for the EAERE FEEM VIU summer school on Uncertainty, Innovation and Climate Change in Venice, Italy
2011	Award for the best diploma from the institute of natural sciences of the Otto-von-Guericke University Magdeburg
2011	Young scientist award of the German Liquid Crystal Association awarded for outstanding research at the German Liquid Crystal Conference 2011
2008	Scholarship for attending the Nobel-Laureate Meeting in Lindau, Germany, by the Wilhelm und Else Heraeus-Stiftung
2006-2011	Undergraduate Scholarship by the German National Academic Foundation
2002-2003	Scholarship for Highschool exchange by the Deutsch-Amerikanisches Dialogzentrum Magdeburg

Presentations at conferences and workshops (selected):

2017	“California-Germany Climate Policy Workshop” in Berkeley, USA (invited speaker)
2017	Workshop „Symposium on carbon pricing” with Nicholas Stern in Paris, France (invited speaker)

2017	Conference of the „European Association of Environmental and Resource Economists“ in Athens, Greece
2017	MIT Global Change Forum in Virginia, USA
2016	Conference of the „European Association of Environmental and Resource Economists“ in Zurich, Switzerland
2016	Conference of the „American Association of Environmental and Resource Economists“ in Breckenridge, USA
2016	Seminar “Climate Futures Initiative” in Princeton, USA
2015	Workshop „New climate regime, new research agenda” in Oxford, England
2015	Conference of the „European Association of Environmental and Resource Economists“ in Helsinki, Finland
2015	Workshop “Promoting cooperation in international climate negotiations” in Stanford, USA
2014	Nobel Laureate meeting for economics in Lindau, Germany
2013	International Energy Workshop in Paris, France

Reviewer for Journals:

Journal of Environmental Economics and Management; Environmental and Resource Economics; Climatic Change; International Environmental Agreements: Politics, Law and Economics; Nature Scientific Reports; European Physical Journal

Skills:

Programming: proficient in GAMS, Octave/Matlab, R; basic in Python, Stata
German (mother tongue), English (fluent)

Publications:

Peer-reviewed:

- S. Fuss, C. Flachsland, N. Koch, U. Kornek, B. Knopf, O. Edenhofer: An assessment framework for intertemporal economic performance of cap-and-trade systems, accepted at Review of Environmental Economics and Policy (2017)
- J. Meya, U. Kornek, K. Lessmann: How empirical uncertainties influence the stability of climate coalitions, accepted at International Environmental Agreements: Politics, Law and Economics, DOI: 10.1007/s10784-017-9378-5 (2017)
- U. Kornek, J. Steckel, K. Lessmann, O. Edenhofer: The Climate Rent Curse: New Challenges for Burden Sharing, International Environmental Agreements: Politics, Law and Economics, online first, doi:10.1007/s10784-017-9352-2 (2017)
- G. Schwerhoff, U. Kornek, K. Lessmann, M. Pahle: Leadership in Climate Change Mitigation: Consequences and Incentives, Journal of Economic Surveys, online first doi:10.1111/joes.12203 (2017)

- J. C. Steckel, M. Jakob, C. Flachsland, U. Kornek, K. Lessmann, O. Edenhofer: From climate finance toward sustainable development finance. *WIREs Clim Change* 2017, 8:e437. doi: 10.1002/wcc.437 (2017)
- S. Auer, J. Heitzig, U. Kornek, E. Schöll, J. Kurths: The Dynamics of Coalition Formation on Complex Networks. *Nature Scientific Reports* 5, 13386. doi: 10.1038/srep13386 (2015)
- K. Lessmann, U. Kornek, V. Bosetti, R. Dellink, J. Emmerling, J. Eyckmans, M. Nagashima, H.-P. Weikard, Z. Yang: The stability and effectiveness of climate coalitions: A comparative analysis of multiple integrated assessment models. *Environmental and Resource Economics*, 62(4), pp 811-836. doi: 10.1007/s10640-015-9886-0 (2015)
- K. Lessmann, R. Marschinski, M. Finus, U. Kornek, O. Edenhofer: Emissions trading with non-signatories in a climate agreement - An analysis of coalition stability. *The Manchester School* 82(S2), pp 82-109. doi: 10.1111/manc.12045 (2013)
- A. Eremin, U. Kornek, R. Stannarius, W. Weissflog, H. Nadasi, F. Araoka, H. Takezoe: Labyrinthine instability in freely suspended films of a polarisation-modulated smectic phase. *Phys. Rev. E* 88 062512 (2013)
- K. Harth, U. Kornek, T. Trittel, U. Strachauer, S. Höme, K. Will, R. Stannarius: Granular Gases of Rod-Shaped Grains. *Phys. Rev. Lett.* 110 144102 (2013)
- A. Eremin, U. Kornek, S. Stern, R. Stannarius, F. Araoka, H. Takezoe, H. Nádasi, W. Weissflog, A. Jakli: Pattern-stabilized "decorated" polar liquid crystal fibers. *Phys. Rev. Lett.* 109 017801 (2012)
- A. Eremin, M. Floegel, U. Kornek, S. Stern, R. Stannarius, H. Nádasi, W. Weissflog, C. Zhu, Y. Shen; C. Soo Park; J. MacLennan; N. Clark: Transitions between paraelectric and ferroelectric phases of bent-core smectic liquid crystals in the bulk and in thin freely suspended films. *Phys. Rev. E* 86 051701 (2012)
- U. Kornek, F. Müller, K. Harth, A. Hahn, S. Ganesan, L. Tobiska, and R. Stannarius: Oscillations of soap bubbles, *New J. Phys.*, 12 073031 (2010)
- W. Weissflog, G. Pelzl, H. Kresse, U. Baumeister, K. Brand, M. W. Schroeder, G. Tamba, S. Findeisen-Tandel, U. Kornek, S. Stern, A. Eremin, R. Stannarius, and J. Svoboda: In search of a new design strategy for solid single-component organic ferroelectrics: Polar crystalline phases formed by bent-core molecules, *J. Mater. Chem.*, 20 6057 (2010)

Under review:

- U. Kornek and R. Marschinski: Prices vs. Quantities for International Environmental Agreements, second round of revisions at *Oxford Economic Papers*
- J. Heitzig, U. Kornek: Bottom-Up Linking of Carbon Markets: Farsightedness, Delayed Cap Coordination and Reversibility, second round of revisions at *Nature Climate Change*

Work in Progress:

- U. Kornek, O. Edenhofer: The strategic dimension of financing global public goods, [Link](#)
- J. Emmerling, U. Kornek, V. Bosetti, K. Lessmann, M. Tavoni: The effect of climate thresholds on coalition formation: an application of numerical models, [Link](#)
- M. Dorsch, C. Flachsland, U. Kornek: Enhancing climate policy ambition using strategic transfers: allowance allocation and revenue spending in the EU ETS
- U. Kornek, D. Klenert, O. Edenhofer: Who should abate carbon emissions? Optimal climate policy when national preferences determine its implementation

Dissertation:

Designing International Climate Agreements: An Economic Analysis of Free-riding Incentives, [Link](#)

Other:

O. Edenhofer, C. Flachsland, U. Kornek: Der Grundriss für ein neues Klimaregime. [ifo Schnelldienst 69 \(03\)](#): 11-15 (2016)

O. Edenhofer, C. Flachsland, U. Kornek: Koordinierte CO₂-Preise: Zur Weiterentwicklung des Pariser Abkommens. In: Sommer, Jörg & Müller, Michael (Edt.) Unter 2 Grad? Was der Weltklimavertrag wirklich bringt (2016)

U. Kornek, K. Lessmann, H. Tulkens: Transferable- and Non-transferable Utility Implementations of Coalitional Stability in Integrated Assessment Models. CORE Discussion Paper 35 (2014), [Link](#)