

Ulrike Kornek: Curriculum Vitae

Professional Experience:

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| 01/2019 – 09/2019 | Postdoctoral researcher at Princeton Environmental Institute |
| 05/2015 – 12/2018 | 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 (date of defense: 27.03.2015)
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 |

Scholarships and Awards:

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| 2018 | DFG postdoctoral fellowship for Princeton University |
| 2018 | declined: Feodor-Lynen fellowship of the Humboldt foundation for UC Berkeley |
| 2018 | declined: postdoctoral fellowship program of the DAAD for Princeton University |
| 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

Reviewer for Journals:

European Economic Review; Environmental and Resource Economics; Climatic Change; International Environmental Agreements: Politics, Law and Economics; Nature Scientific Reports; Climate Policy; European Physical Journal

Publications:

Peer-reviewed:

- U. Kornek** and R. Marschinski: Prices vs. Quantities for International Environmental Agreements, Oxford Economic Papers, gpy016, doi.org/10.1093/oep/gpy016 (2018)
- S. Fuss, C. Flachsland, N. Koch, **U. Kornek**, B. Knopf, O. Edenhofer: An assessment framework for intertemporal economic performance of cap-and-trade systems, Review of Environmental Economics and Policy 12 (2): 220-241 (2018)
- J. Heitzig, **U. Kornek**: Bottom-Up Linking of Carbon Markets: Farsightedness, Delayed Cap Coordination and Reversibility, Nature Climate Change, doi:10.1038/s41558-018-0079-z (2018)
- 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. Nadasj, F. Araoka, H. Takezo: 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**, O. Edenhofer: The strategic dimension of financing global public goods, revise and resubmit at European Economic Review
- M. Dorsch, C. Flachsland, **U. Kornek**: Enhancing climate policy ambition using strategic transfers: allowance allocation and revenue spending in the EU ETS, revise and resubmit at Environmental Politics
- J. Emmerling, **U. Kornek**, V. Bosetti, K. Lessmann: The effect of climate thresholds on coalition formation: an application of numerical models, under review at The Review of International Organizations

Work in Progress:

- U. Kornek**, D. Klenert, O. Edenhofer: Who should abate carbon emissions? Optimal climate policy when national preferences determine its implementation
- U. Kornek**, C. Flachsland, C. Kardish, S. Levi, O. Edenhofer: Is prioritization possible? Expert perceptions of obstacles and responses to achieving 2°C

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](#)