

## Ulrike Kornek: Curriculum Vitae

### Professional Experience:

---

- |                   |  |
|-------------------|--|
| 10/2019 – present | Group leader “Governance” at MCC Berlin and leader of Future Lab “Game theory and networks of interacting agents” of the Potsdam Institute for Climate Impact Research |
| 01/2019 – 09/2019 | Postdoctoral researcher at Princeton Environmental Institute, Princeton University, USA  |
| 05/2015 – 12/2018 | Postdoctoral researcher at MCC Berlin  |
| 11/2014 – 04/2015 | Researcher at Potsdam Institute for Climate Impact Research  |

### Education:

---

- |                   |  |
|-------------------|--|
| 06/2011 – 10/2014 | PhD student at Potsdam Institute for Climate Impact Research and the Technische Universität Berlin<br>Grade: summa cum laude<br>Thesis-title: Designing International Climate Agreements: An Economic Analysis of Free-riding Incentives (date of defense: 27.03.2015)<br>Supervisor: Prof. Ottmar Edenhofer<br>External reviewer: Prof. Carlo Carraro |
| 10/2005 – 04/2011 | Physics (diploma) at the Otto-von-Guericke University Magdeburg, Germany<br>Grade: 1.0 (with distinction)  |
| 08/2003 – 06/2005 | Johann-Joachim Winckelmann Gymnasium Stendal, Germany<br>Abitur<br>Grade: 1.0  |

### Project work:

---

- |                    |  |
|--------------------|--|
| 09/2019 – present  | EU Horizon 2020 project NAVIGATE   |
| 09/2019 – present  | Axis/Eranet/EU project CHIPS (funded by DLR/BMBF)  |
| 12/2016 – 12/2017  | 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)   |

### Scholarships and Awards:

---

- |      |  |
|------|--|
| 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

#### Organization of events and seminars (selected):

---

2016-2018	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?"

#### Reviewer for Journals:

---

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

#### Presentations at conferences and workshops (selected):

---

2020	Conference of the Royal Economic Society, Belfast, UK (invited speaker)
2019	Conference of the Society for the Advancement of Economic Theory, Ischia, Italy (invited speaker)
2019	Workshop on Climate Policy and Sustainable Growth, Princeton University, USA (invited speaker)

- 2019 Special session on International Environmental Agreement at the yearly conference of the Austrian Economic Association, University of Graz, Austria (invited speaker)
- 2018 Environmental Economics Seminar, University of Gothenburg, Sweden (invited speaker)
- 2018 Conference “Journées Louis-Andre Gerard-Varet” in Aix-en-Provence, France
- 2017 Presentation at COP23 German Science Hour in Bonn, Germany (invited speaker)
- 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

Skills:

---

Programming: proficient in GAMS, Octave/Matlab, R; basic in Python, Stata

German (mother tongue), English (fluent)

Publications:

---

Peer-reviewed:

K. Raiser, **U. Kornek**, C. Flachsland, W. Lamb: Is the Paris Agreement effective? A systematic map of the literature, <https://doi.org/10.1088/1748-9326/ab865c>, Environmental Research Letters (2020)

- U. Kornek**, O. Edenhofer: The strategic dimension of financing global public goods, <https://doi.org/10.1016/j.euroecorev.2020.103423>, *European Economic Review* (2020)
- U. Kornek**, C. Flachsland, C. Kardish, S. Levi, O. Edenhofer: What is important for achieving 2°C? UNFCCC and IPCC expert perceptions on obstacles and response options for climate change mitigation, <https://dx.doi.org/10.1088/1748-9326/ab6394>, *Environmental Research Letters* (2020)
- J. Emmerling, **U. Kornek**, V. Bosetti, K. Lessmann: The effect of climate thresholds on coalition formation: an application of numerical models, <http://link.springer.com/article/10.1007/s11558-019-09370-0>, *The Review of International Organizations* (2020)
- M. Dorsch, C. Flachsland, **U. Kornek**: Building and enhancing climate policy ambition with transfers: allowance allocation and revenue spending in the EU ETS, <https://doi.org/10.1080/09644016.2019.1659576>, *Environmental Politics* (2019)
- U. Kornek** and R. Marschinski: Prices vs. Quantities for International Environmental Agreements, *Oxford Economic Papers*, gpy016, [doi.org/10.1093/oep/gpy016](https://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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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. Nádasi, 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)

Dissertation:

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

Other:

- U. Kornek**, D. Klenert, O. Edenhofer, M. Fleurbaey: The social cost of carbon and inequality: When local redistribution shapes global carbon prices, [CESifo Working Paper No. 7628](#)
- M. Jakob, O. Edenhofer, **U. Kornek**, D. Lenzi, J. Minx: Governing the Commons to Promote Global Justice: Climate Change Mitigation and Rent Taxation, In: Kanbur, Ravi & Shue, Henry (Edt.) Climate and Justice - Integrating Economics and Philosophy (2018)
- 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 CO<sub>2</sub>-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](#)