

# CURRICULUM VITAE

Martin F. Quaas

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## EDUCATION

2004	PhD, Economics, University of Heidelberg
1998	Diplom (MSc), Physics, University of Duisburg

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## POSITIONS

since 2018	Professor of Biodiversity Economics, Faculty of Economics, Leipzig University and German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
2007–2018	Professor of Environmental, Resource-, and Ecological Economics, Department of Economics, Christian-Albrechts-University of Kiel. 2007–2010 junior professor; 2010–2015 associate professor (W2, tenured); 2015–2018 full professor (W3, tenured)
2004–2007	Postdoc, Department of Ecological Modelling, Helmholtz Centre for Environmental Research – UFZ, Leipzig
2006	Postdoc, CentER for Economic Research, Department of Economics, Tilburg University, The Netherlands (January–August)
2002–2004	Research and Teaching Assistant, Interdisciplinary Institute of Environmental Economics, University of Heidelberg (Coordination of PhD Program <i>Environmental and Resource Economics</i> )
2001	Visiting Scholar, Indira Gandhi Institute for Development Research, Mumbai, India (February–March)
2000	Research and Teaching Assistant, Alfred Weber Institute, University of Heidelberg
1999–2002	Fellow of DFG Research Training Group Environmental and Resource Economics, University of Heidelberg

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## EXTERNALLY FUNDED RESEARCH PROJECTS

2024–2029	ECO-N – Economics of Connected Natural Commons: Atmosphere and Biodiversity (DFG Research Training Group)
2024–2027	IMAPP – Integrative Mapping and Prioritization of Atlantic Protection areas – Guidelines for balancing conservation priorities with economic and legal interests in the High Seas (German Federal Ministry of Education and Research, BMBF)
2022–2025	InsuranceGrass – Assessment of formal, natural and social insurances: how to cope best with impacts of extreme events on grasslands for sustainable

	farming systems? (German Research Foundation DFG, DACH project in cooperation with Birgit Müller, UFZ Leipzig; Nina Buchmann, ETH Zurich; Robert Finger, ETH Zurich)
2020–2024	ValuGaps – Towards a comprehensive valuation of natural capital in Germany: Methods and approaches to deal with limited information and uncertainty (German Federal Ministry of Education and Research, BMBF, Wertschätzung und Sicherung von Biodiversität in Politik, Wirtschaft und Gesellschaft)
2021–2023	CO <sub>2</sub> Meso – Mesopelagic resources, stressors and protection: a first risk assessment (German Federal Ministry of Education and Research, BMBF, MARE:N)
2020–2023	BaltADAPT – Adaptation of the Western Baltic Coastal Fishery to Climate Change (German Federal Ministry of Education and Research, BMBF, MARE:N)
2020–2023	CRAMORES – Changing risks and mobile common pool resources: Economic analysis of resource-user behavior and policy instruments for sustainability (German Research Foundation DFG, Franco-German Call in Humanities and Social Sciences, Collaboration with Nicolas Querou, Montpellier)
2019–2022	SOMBEE – Scenarios Of Marine Biodiversity and Evolution under Exploitation and climate change (BELMONT Forum, coordinated by Yunne Shin, IRD, France)
2019–2022	FOCUS – Food security and sustained coastal livelihoods through linking land and ocean (German Federal Ministry of Education and Research, BMBF, Bioeconomy program)
2017–2022	marEEshift – Marine ecological-economic systems in the Western Baltic Sea and beyond: Shifting the baseline to a regime of sustainability (funded by German Federal Ministry of Education and Research, BMBF, BioTip program)
2017–2022	Humboldt-Tipping – Tipping points of the Humboldt Current Upwelling System and Economic Repercussions (funded by German Federal Ministry of Education and Research, BMBF, BioTip program)
2019–2026	ROOTS – Social, Environmental, and Cultural Connectivity in Past Societies (Cluster of Excellence, Kiel University; Co-Applicant)
2016–2020	LEAC II – LEarning About Cloud modification under risk and uncertainty: Investigation of feasibility, traceability, Incentives and decentralised governance of limited-area climate engineering (German Research Foundation, DFG priority programme 1689 Climate Engineering: Risks, Challenges, Opportunities?)
2015–2018	KoBeFish – Nachhaltiger Konsum und Bewirtschaftung von Meeresfischen (Sustainable consumption and management of marine fisheries; German Federal Ministry of Education and Research, BMBF)
2012–2017	Phase II of Future Ocean, Cluster of Excellence
2013–2016	LEAC – Learning about cloud brightening under risk and uncertainty: Whether, when and how to do field experiments (German Research Foundation, DFG priority programme 1689 Climate Engineering: Risks, Challenges, Opportunities?)

2013–2017	AWA – Ecosystem Approach to the management of fisheries and the marine environment in West African waters (German Federal Ministry of Education and Research, BMBF)
2012–2015	BIOACID II – Biological Impacts of Ocean Acidification (German Federal Ministry of Education and Research, BMBF)
2012–2015	ECCUITY – Economics of Climate Change: Distribution, Efficiency, and Policy under Uncertainty (German Federal Ministry of Education and Research, BMBF)
2012–2015	MYFISH – Maximising yield of fisheries while balancing ecosystem, economic and social concerns (European Commission)
2012–2015	SOCIOEC – Socio economic effects of management measures of the future CFP (European Commission)
2010–2013	EIGEN – Efficient inter- and intragenerationally just use of ecosystem services (German Federal Ministry of Education and Research, BMBF)
2010–2012	FACTS – Foraging Fish Interactions (European Commission)
2009–2012	BIOACID – Biological Impacts of Ocean Acidification (German Federal Ministry of Education and Research, BMBF)
2007–2011	Junior Research Group <i>Living Resources and Overfishing</i> within the Kiel Cluster of Excellence <i>Future Ocean</i>
2007–2010	Sustainable Use of Ecosystem Services under Uncertainty (German Federal Ministry of Education and Research, BMBF)

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## PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

- 124 articles in peer-reviewed international journals since 2007
- h Index 31, 4,383 citations (Web of Science, 1 January 2025)
- h Index 34, 4,886 citations (Scopus, 1 January 2025)
- h Index 42, 9,165 citations (Google Scholar, 1 January 2025)
- ORCID: 0000-0003-0812-8829
- ResearcherID / Web of Science: C-4220-2012
- Google Scholar: WDLkZJQAAAAJ
- SCOPUS Author ID: 22958134600

### forthcoming

[124] Dube I, Quaas MF, Sagebiel J, Voss R (2025). Consumer preferences for sustainably sourced seafood: Implications for fisheries dynamics and management. *American Journal of Agricultural Economics*. doi 10.1111/ajae.12544

**2025** [123] Quaas MF and Requate T (2025). Are two networks one too many? Optimal network sizes under uncertain technological progress. *Economic Modelling* **151**: 107176. doi 10.1016/j.econmod.2025.107176

[122] Quaas MF and Winkler R (2025). A market mechanism for sustainable and efficient resource use under uncertainty. *Journal of Environmental Economics and Management*, **131**:

103151. doi: 10.1016/j.jeem.2025.103151

[121] Harding A, Moreno-Cruz J, Quaas MF, Rickels W, Smulders S (2025). Distribution of climate damages in convergence-consistent growth projections. *Energy Economics*, **149**: 108705. doi 10.1016/j.eneco.2025.108705

[120] Schorn ME, Quaas MF, Schenk H, Wirth C, Rüger N (2025). Optimising profits from timber harvest and the biodiversity conservation value in a central European beech forest using a novel bioeconomic forestry model. *Ecological Modelling*, **505**: 111108. doi: 10.1016/j.ecolmodel.2025.111108

## 2024

[119] Calabrese JM, Schüler Lennart, Fu X, Gawel E, Zozmann H, Bumberger J, Quaas MF, Wolf G, Attinger S. (2024). A novel, scenario-based approach to comparing non-pharmaceutical intervention strategies across nations. *Journal of The Royal Society Interface* **21** (218). doi: 10.1098/rsif.2024.0301

[118] Drupp MA, Hänsel MC, Fenichel EP, Freeman M, Gollier C, Groom B, Heal GM, Howard PH, Millner A, Moore FC, Nesje F, Quaas MF, Smulders S, Sterner T, Traeger C, Venmans F (2024). Accounting for the increasing benefits from scarce ecosystems. *Science* **383**: 1062–1064. doi:10.1126/science.adk2086

[117] Dube I, Quaas MF (2024). Love of variety and the welfare effects of trade in renewable resources. *Journal of Environmental Economics and Management* **125**: 102968. doi:10.1016/j.jeem.2024.102968

[116] Martini CA, Bos B, Drupp MA, Meya JN, Quaas MF (2024). Dishonesty is linked with the spread of infectious diseases. *Economics Letters* **245**: 112046. doi 10.1016/j.econlet.2024.112046

[115] Rickels W, Meier F, Peterson S, Rühland S, Thube S, Karstensen J, Posern C, Wolff C, Vafeidis AT, Grasse P, Quaas MF 2024. The ocean carbon sink enhances countries' inclusive wealth and reduces the cost of national climate policies. *Communications Earth & Environment* **5**: 513 . doi 10.1038/s43247-024-01674-3

[114] Scherzinger F, Schädler M, Reitz T, Yin R, Auge H, Merbach I, Roscher C, Harpole WS, Blagodatskaya E, Siebert J, Ciobanu M, Marder F, Eisenhauer N, Quaas MF 2024. Sustainable land management enhances ecological and economic multifunctionality under ambient and future climate. *Nature Communications* **15**: 4930. doi:10.1038/s41467-024-48830-z

## 2023

[113] Bronnmann J, Liebelt V, Marder F, Meya J, Quaas MF (2023). The value of naturalness of urban green spaces: Evidence from a discrete choice experiment. *Land Economics* **99**(4): 528–542. doi 10.3368/le.99.4.062321-0072R1

[112] Drupp MA, Meya J, Quaas MF, Sager L (2023). Inequality and the Environment: An Introduction to the Special Issue. *Journal of Environmental Economics and Management*. **119**: 102812. doi 10.1016/j.jeem.2023.102812

[111] Dunn-Capper R, Quaas MF, Sandom CJ, Svenning J-C, Pereira HM (2023). Applying conventional funding mechanisms to rewilding: the opportunities and challenges for funding rewilding in Europe. *Restoration Ecology*: e13884. doi: 10.1111/rec.13884

[110] Dao, T, Quaas MF, Koemle D, Ehrlich E, Arlinghaus R (2023). Can price feedbacks cause human behavior-induced tipping points in exploited fish stocks? An extension of the bioeconomic Gordon-Schaefer model. *Fisheries Research* **259**: 106550. doi 10.1016/j.fishres.2022.106550

[109] Han KH, Kröger L, Buchholz F, Dewan I, Quaas MF, Schulenburg H, Reusch TBH (2023). The economics of microbiobiodiversity. *Ecological Economics* **204**:107664

- [108] Kelsall C, Quaas MF, Quérrou N (2023). Risk aversion in renewable resource harvesting. *Journal of Environmental Economics and Management* **121**:102855. doi 10.1016/j.jeem.2023.102855
- [107] Lancker K, Voss V, Zimmermann F, Quaas MF (2023). Using the best of two worlds: A bio-economic stock assessment (BESA) method using catch and price data. *Fish and Fisheries* **24**(5): 744–758. doi 10.1111/faf.12759
- [106] Marder F, Masson T, Sagebiel J, Martini C, Quaas MF, Fritsche I (2023). Discounting the future: The effect of collective motivation on investment decisions and acceptance of policies for renewable energy. *PLOS Clim* **2**(6): e0000173. doi 10.1371/journal.pclm.0000173
- [105] Pascual U, Balvanera P, Anderson CB, Chaplin-Kramer R, Christie M, González-Jiménez D, Martin A, Raymond CM, Termansen M, Vatn A, Athayde S, Baptiste B, Barton DN, Jacobs S, Kelemen E, Kumar R, Lazos E, Mwampamba TH, Nakangu B, O'Farrell P, Subramanian SM, van Noordwijk M, Ahn S, Amaruzaman S, Amin AM, Arias-Arévalo P, Arroyo-Robles G, Cantú-Fernández M, Castro AJ, Contreras V, Vos AD, Dendoncker N, Engel S, Eser U, Faith DP, Filyushkina A, Ghazi H, Gómez-Baggethun E, Gould RK, Guibrunet L, Gundimeda H, Hahn T, Harmáčková ZV, Hernández-Blanco M, Horcea-Milcu AI, Huambachano M, Wicher NLH, Aydın Cİ, Islar M, Koessler AK, Kenter JO, Kosmus M, Lee H, Leimona B, Lele S, Lenzi D, Lliso B, Mannetti LM, Merçon J., Monroy-Sais AS, Mukherjee N, Muraca B, Muradian R, Murali R, Nelson SH, Nemogá-Soto GR, Ngouhouo-Poufoun J, Niamir A, Nuesiri E, Nyumba TO, Özkaynak B, Palomo I, Pandit R, Pawlowska-Mainville A, Porter-Bolland L, Quaas MF, Rode J, Rozzi R, Sachdeva S, Samakov A, Schaafsma M, Sitas N, Ungar P, Yiu E, Yoshida Y, Zent E (2023). Diverse values of nature for sustainability. *Nature* **620**: 813–823. doi:10.1038/s41586-023-06406-9
- [104] Rickels W, Meier F, Quaas MF (2023). The historical social cost of fossil and industrial CO<sub>2</sub> emissions. *Nature Climate Change* **13**: 742–747. doi 10.1038/s41558-023-01709-1
- [103] Schenk H, Zimmermann F, Quaas MF (2023). The economics of reversing fisheries-induced evolution. *Nature Sustainability* **6**: 706–711. doi 10.1038/s41893-023-01078-9

## 2022

- [102] Quaas MF, Skonhoft A (2022). Welfare Effects of Changing Technological Efficiency in Regulated Open-Access Fisheries *Environmental and Resource Economics* **82**:869–888.
- [101] Kroetz K, Nøstbakken L, Quaas MF (2022). The Future of Wild-Caught Fisheries: Expanding the Scope of Management. *Review of Environmental Economics and Policy* **16**(2): 241–261
- [100] Voss R, Quaas MF (2022). Fisheries management and tipping points: Seeking optimal management of Eastern Baltic cod under conditions of uncertainty about the future productivity regime. *Natural Resource Modeling* **35**(1): e12336.
- [99] Voss R, Quaas MF, Neuenfeldt S (2022). Robust, ecological-economic multispecies management of Central Baltic fishery resources. *ICES Journal of Marine Science* **79**(1): 169–181.

## 2021

- [98] Quaas MF, Meya, JN, Schenk, H, Bos, B, Drupp, MA, Requate, T (2021). The Social Cost of Contacts: Theory and Evidence for the first wave of the COVID-19 Pandemic in Germany. *PLOS ONE* **16** (3): 1–29.
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- [95] Bronnmann J, Stoeven MT, Quaas MF, Asche F (2021). Measuring motivations for choosing ecolabeled seafood: Environmental concerns and warm glow. *Land Economics* **97**(3): 641–654.
- [94] Dipu S, Quaas J, Quaas MF, Rickels W, Mülmenstädt, Boucher O(2021). Substantial Climate Response outside the Target Area in an Idealized Experiment of Regional Radiation Management. *Climate* **9**(4): 66.
- [93] Li Q, Bronnmann J, Karasik R, Quaas MF, Smith M (2021). An Age-structured Backward-bending Supply of Fish: Implications for Conservation of Bluefin Tuna *Journal of the Association of Environmental and Resource Economists* **8**(1): 165–192.
- [92] Meier FD, Quaas MF (2021). Booming gas – A theory of endogenous technological change in resource extraction *Journal of Environmental Economics and Management* **107**: 102447
- [91] Möllmann C, Cormon X, Funk S, Otto SA, Schmidt JO, Schwermer H, Sguotti C, Voss R, Quaas MF (2021). Tipping point realized in cod fishery. *Scientific Reports* **11**: 14259.
- [90] Stoeven MT, Diekert FK, Quaas MF (2021). Should fishing quotas be measured in terms of numbers? *Marine Resource Economics*. **36**(2): 133–153.

## 2020

- [89] Quaas MF, Baumgärtner S, Drupp MA, Meyer M (2020). Intertemporal utility with heterogeneous goods and constant elasticity of substitution. *Economics Letters* **191**: 109092
- [88] Bos B, Drupp MA, Meya JA, Quaas MF (2020). Moral Suasion and the Private Provision of Public Goods: Evidence from the COVID-19 Pandemic. *Environmental and Resource Economics* **76**: 1117–1138.
- [87] Drupp MA, Baumgärtner S, Meyer M, Quaas MF, von Wehrden H (2020). Between Ostrom and Nordhaus: The research landscape of sustainability economics. *Ecological Economics* **172**: 106620
- [86] Hänsel MC, Schmidt JO, Stiasny MH, Stöven MT, Voss R, Quaas MF (2020). Ocean warming and acidification may drag down the commercial Arctic cod fishery by 2100. *PLoS ONE* **15**(4): e0231589
- [85] Okonkwo JU, Quaas MF (2020). Welfare Effects of Natural Resource Privatization: A Dynamic Analysis. *Environment and Development Economics*. **25**: 205–225.
- [94] Rickels W, Quaas MF, Ricke K, Quaas J, Moreno-Cruz J, Smulders S (2020). Who turns the global thermostat and by how much? *Energy Economics* **91**: 104852

## 2019

- [83] Quaas MF, Tahvonen O (2019). Strategic Harvesting of Age-Structured Populations. *Marine Resource Economics* **34**(4): 291–309.
- [82] Quaas MF, Baumgärtner S, De Lara M (2019). Insurance value of natural capital. *Ecological Economics* **165**: 106388.
- [81] Drupp MA, Khadjavi M, Quaas MF (2019). Truth-Telling and the Regulator. *Experimental*

Evidence from Commercial Fishermen. *European Economic Review* **120** article 103310.

[80] Doyen L, Armstrong C, Baumgärtner S, Béné C, Blanchard F, Cissé AA, Cooper RR, Du-tra LXC, Eide A, Freitas D, Gourguet S, Gusmao F, Hardy PY, Jarre A, Little LR, Macher C, Quaas MF, Regnier E, Sanz N, Thébaud (2019). From no whinge scenarios to viability tree. *Ecological Economics* **163**: 183–188.

[79] Lancker K, , Quaas MF (2019). Increasing marginal costs and the efficiency of differentiated feed-in tariffs. *Energy Economics* **83**: 104–118.

[78] Mengis N, Keller DP, Rickels W, Quaas MF, Oschlies A (2019). Climate engineering-induced changes in correlations between Earth system variables—implications for appropriate indicator selection. *Climatic Change* **153**(3):, pp. 305–322.

[77] Riekhof MC, Regnier E, Quaas MF (2019). Economic growth, international trade, and the depletion or conservation of renewable natural resources. *Journal of Environmental Economics and Management* **97**: 116–133.

[76] Voss R, Quaas MF, Stiasny ME, Hänsel M, Pinto GASJ, Lehmann A, Reusch TBH, Schmidt JO (2019). Ecological-economic sustainability of the Baltic cod fisheries under ocean warming and acidification. *Journal of Environmental Management* **238**: 110–118

## 2018

[75] Quaas MF, Smulders S (2018). Brown Growth, Green Growth, and the Efficiency of Urbanization. *Environmental and Resource Economics* **71**(2): 529–549.

[74] Quaas MF, Stoeven M, Klauer B, Schiller J, Petersen T (2018). Windows of opportunity for sustainable fisheries management: The case of Eastern Baltic cod. *Environmental and Resource Economics* **70**(2): 323–341.

[73] Braack M, Quaas MF, Tews B, Vexler B (2018). Optimization of Fishing Strategies in Space and Time as a Non-convex Optimal Control Problem. *Journal of Optimization Theory and Applications* **178**(3): 950–972.

[72] Drupp MA, Meya JN, Baumgärtner S, Quaas MF (2018). Economic Inequality and the Value of Nature. *Ecological Economics* **150**: 340–345.

[71] Froese R, Winker H, Coro G, Demirel N, Tsikliras AC, Dimarchopoulou D, Scarcella G, Quaas MF, Matz-Lück N (2018). Status and rebuilding of European fisheries. *Marine Policy* **93**: 159–170.

[70] Hänsel M, Quaas MF (2018). Intertemporal Distribution, Sufficiency, and the Social Cost of Carbon. *Ecological Economics* **146**: 520–535.

[69] Nielsen JR, Thunberg E, Holland DS, Schmidt JO, Fulton EA, Bastardie F, Punt AE, Allen I, Bartelings H, Bertignac M, Bethke E, Bossier S, Buckworth R, Carpenter G, Christensen A, Christensen V, Da-Rocha JM, Deng R, Dichmont C, Doering R, Esteban A, Fernandes JA, Frost H, Garcia D, Gasche L, Gascuel D, Gourguet S, Groeneveld RA, Guillén J, Guyader O, Hamon KG, Hoff A, Horbowy J, Hutton T, Lehuta S, Little LR, Leonart J, Macher C, Mackinson S, Mahevas S, Marchal P, Mato-Amboage R, Mapstone B, Maynou F, Merzéréaud M, Palacz A, Pascoe S, Paulrud A, Plaganyi E, Prellezo R, van Putten EI, Quaas MF, Ravn-Jonsen L, Sanchez S, Simons S, Thébaud O, Tomczak MT, Ulrich C, van Dijk D, Vermard Y, Voss R, Waldo S (2018). Integrated ecological-economic fisheries models—evaluation, review and challenges for implementation. *Fish and Fisheries* **19**(1): 1–29.

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[67] Rickels W, Reith F, Keller D, Oschlies A, Quaas MF (2018). Integrated Assessment of Carbon Dioxide Removal. *Earth's Future* **6**(3): 565–582.

[66] Tahvonen O, Quaas MF, Voss R (2018). Harvesting selectivity and stochastic recruitment in economic models of age-structured fisheries. *Journal of Environmental Economics and Management*. **92**: 659–676.

[65] Voss R, Quaas MF, Schmidt JO, Stoeven MT, Francis TB, Levin PS, Armitage DR, Cleary JS, Jones RR, Lee LC, Okamoto DK, Silver JJ, Thornton TF, Dressel SC, MacCall AD, Punt AE (2018). Quantifying the benefits of spatial fisheries management – An ecological-economic optimization approach. *Ecological Modelling* **385**: 165–172.

## 2017

[64] Quaas MF, Quaas J, Rickels W, Boucher O (2017). Are there reasons against open-ended research into solar radiation management? A model of intergenerational decision-making under uncertainty. *Journal of Environmental Economics and Management* **84**: 1–17

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## 2016

[57] Quaas MF, Reusch T, Schmidt JO, Tahvonen O, Voss R (2016). It is the economy, stupid! Projecting the fate of fish populations using ecological-economic modeling. *Global Change Biology* **22**(1): 264-270.

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[55] Hoffmann J, and Quaas MF (2016). Common Pool Politics and Inefficient Fishery Management *Environmental and Resource Economics*. **63**(1): 79-93.

[54] Olbrich R, Quaas MF, Baumgärtner S (2016). Characterizing commercial cattle farms in Namibia: Risk, management and sustainability. *African Journal of Agricultural Research* **11**(41): 4109-4120.

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- [52] Quaas J, Quaas MF, Boucher O, Rickels W (2016). Regional climate engineering by radiation management: Prerequisites and prospects. *Earth's Future* **4**: 618-625.
- [51] Rickels W, Dovert J, Hoffmann J, Quaas MF, Schmidt JO, Visbeck M (2016). Indicators for Monitoring Sustainable Development Goals: An Application to Oceanic Development in the European Union. *Earth's Future* **4**(5): 252-267.
- [50] Rickels W, Dovert J, Quaas MF (2016). Beyond fisheries: Common-pool resource problems in oceanic resources and services. *Global Environmental Change* **40**: 37-49.

## 2015

- [49] Aswathy VN, Boucher O, Quaas MF, Niemeier U, Muri H, Mülmenstädt J, Quaas J (2015). Climate extremes in multi-model simulations of stratospheric aerosol and marine cloud brightening climate engineering, *Atmos. Chem. Phys.* **15**: 9593-9610.
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- [45] Voss R, Quaas MF, Schmidt JO and Kapaun U (2015). Ocean acidification may aggravate social-ecological trade-offs in coastal fisheries. *PLoS ONE* **10**(3): e0120376.

## 2014

- [44] Dovert J, Quaas MF, and Rickels W (2014). The rich, the clean, and the kind - a comprehensive wealth index for cities applied to the case of Germany. *Ecological Indicators* **41**:79–86.
- [43] Jakoby O, Quaas MF, Müller B, Baumgärtner S, and Frank K (2014). How do individual farmers' objectives influence their evaluation of rangeland management strategies under a variable climate? *Journal of Applied Ecology* **51**(2):483–493.
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## 2012

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the European Union. *Ocean & Coastal Management* **70**:54–58.

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## 2011

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[12] Voss R, Hinrichsen HH, Quaas MF, Schmidt JO, and Tahvonen O (2011). Temperature change and Baltic sprat: from observations to ecological-economic modeling. *ICES Journal of Marine Science*, **68**(6):1244–1256.

## 2010

[11] Baumgärtner S and Quaas MF (2010). What is Sustainability Economics? *Ecological Economics*, **69**:445–450.

[10] Baumgärtner S and Quaas MF (2010). Sustainability economics - general versus specific, and conceptual versus practical. *Ecological Economics*, **69**:2056–2059.

[9] Baumgärtner S and Quaas MF (2010). Managing Increasing Environmental Risks Through Agro-biodiversity and Agri-environmental Policies. *Agricultural Economics* **41**(5):483–493.

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[7] Lange A and Quaas MF (2010). Analytical characteristics of the core-periphery model. *International Regional Science Review*, **33**(4):437–455.

## 2009

[6] Baumgärtner S and Quaas MF (2009). Ecological-economic Viability as a Criterion of Strong Sustainability under Uncertainty. *Ecological Economics*, **68**:2008–2020.

## 2008

[5] Quaas MF and Baumgärtner S (2008). Natural vs. Financial Insurance in the Management of Public-good Ecosystems. *Ecological Economics* **65**:397–406.

[4] Baumgärtner S, Becker C, Frank K, Müller B and Quaas MF (2008). Relating the Philosophy and Practice of Ecological Economics. The Role of Concepts, Models and Case Studies in Inter- and Transdisciplinary Sustainability Research. *Ecological Economics*, **67**(3):384–393.

## 2007

[3] Quaas MF, Baumgärtner S, Becker C, Frank K and Müller B (2007). Uncertainty and Sustainability in the Management of Rangelands, *Ecological Economics* **62**:251–266. Reprinted in C. Perrings (ed.), *Ecological Economics*, Sage Publications, Thousand Oaks:229–260.

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## KEYNOTE SPEAKER AT INTERNATIONAL CONFERENCES

2023	World Conference on Natural Resource Modeling, Amsterdam, The Netherlands
2023	4 <sup>th</sup> Symposium on Functional Marine Biodiversity in Oldenburg, Germany
2022	28 <sup>th</sup> Ulvön Conference on Environmental Economics
2018	ICES Annual Science Conference, University of Hamburg, Germany
2017	19 <sup>th</sup> annual BIOECON conference, Tilburg University, The Netherlands
2014	World Conference on Natural Resource Modeling, Vilnius, Lithuania

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## ORGANISATION OF INTERNATIONAL SCIENTIFIC CONFERENCES

2025	E <sup>3</sup> – Ecology, Evolution, Economy. International Workshop co-sponsored by iDiv and the Research Training Groups TransEvo (Kiel University) and ECON (Leipzig University)  Scientific Organizer, Annual Conference of the Standing Field Committee on Environmental and Resource Economics in the German Economic Association, Kiel, Germany
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2024	Local Organizer, Annual Conference of the Standing Field Committee on Environmental and Resource Economics in the German Economic Association, Leipzig, Germany
2023	7th Workshop on Age-structured models in Natural Resource Economics (co-organized with Maria Schnabel and Alexandra Werner)
2022	World Conference on Natural Resource Modeling, “Modelling natural resource management in a changing world”, Leipzig, Germany. Local Organizing Committee
2021	World Conference on Natural Resource Modeling, “Tipping ecological-economic systems towards sustainability”, virtual conference. Scientific Committee
2018	International Workshop in Sustainability Economics: <i>Responsibility for the Sustainable Management of the Global Commons</i> (co-organized with Stefan Baumgärtner and Moritz Drupp)
2017	International Workshop in Sustainability Economics: <i>Marine ecological-economic systems in the Western Baltic Sea and beyond: Shifting the baseline to a regime of sustainability</i> (co-organized with Christian Möllmann and Stefan Baumgärtner)  5th Workshop on Age-structured models in Natural Resource Economics (co-organized with Max Stoeven, Anders Skonhoft, Olli Tahvonen, Niels Vestergaard)  International Workshop <i>Climate Engineering Regulation and Liability</i> , Kiel (co-organized with Johannes Quaas)
2015	EAERE 2015 Helsinki pre-conference workshop: <i>Economic-ecological models in resource economics</i> (co-organized with Olli Tahvonen, University of Helsinki)  International Workshop in Sustainability Economics: <i>Experiments on Intergenerational Justice under Uncertainty</i> (co-organized with Stefan Baumgärtner, University of Freiburg)
2014	International Workshop in Sustainability Economics: <i>Intergenerational Equity and Efficiency under Uncertainty</i> , Camp Reinsehlen (co-organized with Stefan Baumgärtner, University of Freiburg)
2012	International Workshop in Sustainability Economics: <i>Responsibility for Sustainability. Combining the Perspectives of Economics and Philosophy</i> , Camp Reinsehlen (co-organized with Stefan Baumgärtner, University of Freiburg)  International Workshop on <i>Managing Genetic Diversity of Fishes?</i> List, Sylt
2010	ICES Workshop on <i>Introducing coupled ecological-economic modelling and risk assessment into management tools (WKIMM)</i> , Kiel
2008	International workshop in Sustainability Economics: <i>Conceptualizing Sustainability under Uncertainty</i> , Camp Reinsehlen (co-organized with Stefan Baumgärtner, University of Freiburg)  Session on Marine Life and Biodiversity, 2nd Bi-Annual Symposium: <i>The Future Ocean</i> , Kiel

2007	7 <sup>th</sup> Conference of the European Society for Ecological Economics: <i>Integrating Natural and Social Sciences for Sustainability</i> , Leipzig (member of Scientific and local organizing committee)
2004	International workshop <i>Environment and Network Industries</i> , University of Heidelberg
2003	Member of the scientific committee, Conference <i>New blood in ecotoxicology</i> , Society of Environmental Toxicology and Chemistry, University of Heidelberg
2003	International workshop <i>Spatial Environmental Economics</i> , University of Heidelberg

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## REVIEWER FOR INTERNATIONAL JOURNALS

327 review reports on articles for 84 different international scientific journals, including: Agricultural Economics; American Journal of Agricultural Economics; Biological Conservation; Canadian Journal of Economics; Canadian Journal of Fisheries and Aquatic Sciences; Conservation Biology; Ecological Economics; Ecological Modelling; Economic Theory; Environment and Development Economics; Environmental and Resource Economics; Environmental Conservation; Environmental Modelling & Software; European Economic Review; European Review of Agricultural Economics; Fish and Fisheries; Fisheries Research; Global Change Biology; Global Environmental Change; ICES Journal of Marine Sciences; Journal of the Association of Environmental and Resource Economists; Journal of Applied Ecology; Journal of Cleaner Production; Journal of Economic Dynamics and Control; Journal of Economic Geography; Journal of Economic Growth; Journal of Environmental Economics and Management; Journal of Environmental Management; Journal of Mathematical Biology; Journal of Regulatory Economics; Journal of Theoretical Biology; Journal of Urban Economics; Marine Resource Economics; Methods in Ecology and Evolution; Natural Resource Modeling; Nature Climate Change; Nature Ecology and Evolution; Nature Sustainability; Papers in Regional Science; PNAS; Proceedings of the Royal Society B; Rangeland Ecology and Management; Regional Science and Urban Economics; Regional Environmental Change; Resource and Energy Economics; Scandinavian Journal of Economics; Science

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## REVIEWER FOR FUNDING AGENCIES

board: German Academic Exchange Service (DAAD) postdoc-fellowships/PRIME program (2008–2020); German Academic Exchange Service (DAAD) PhD fellowships for Africa (2012–2017)

ad hoc: European Research Council (ERC); German Research Foundation (DFG); German Federal Ministry of Education and Research (BMBF); German National Academic Foundation; Agence Nationale de la Recherche française (ANR); Austrian Science Fund (FWF); Czech Science Foundation; Netherlands Organization for Scientific Research (NWO); Research Council of Norway; U.S.–Israel Binational Science Foundation

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## COMMITTEES/EDITORIAL BOARDS/HONOURS

2024–2026	chair, Standing Field Committee on Environmental and Resource Economics in the German Economic Association
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2024–2026	Fellow, Kiel Institute for the World Economy (IfW)
since 2023	co-editor, Perspektiven der Wirtschaftspolitik (De Gruyter)
since 2023	editorial board, Ecological Economics (Elsevier)
since 2021	editorial board, Review of Environmental Economics and Policy (University of Chicago Press)
since 2019	co-editor, Journal of Environmental Economics and Management (Elsevier)
since 2018	associate editor, Marine Resource Economics (University of Chicago Press)
since 2016	member of editorial board, Natural Resource Modeling (Wiley)
2013–2018	associate editor, Environment and Development Economics (Cambridge University Press)
since 2020	International Advisory Board, German Marine Research Alliance (DAM)
since 2019	Scientific Advisory Board, RWI – Leibniz Institute for Economic Research, Essen
2019–2023	DFG Komitee für Nachhaltigkeitsforschung in Future Earth
2015–2017	DFG Senatskommission Agroecosystem Research
2012–2016	DFG Senatskommission Biodiversity Research
2018–2022	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), lead author for deliverable 3(d) – methodological assessment regarding the diverse conceptualization of multiple values of nature and its benefits
2014–2016	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), expert for deliverable 3(d) – scoping for an assessment and guide on methodologies regarding diverse conceptualization of values of biodiversity and nature's benefits to people
2021	first prize for special commitment in supervision of early-career researchers, Association of Friends and Sponsors of the Leipzig University
since 2016	member of the board of Resource Modeling Association

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#### UNIVERSITY ADMINISTRATION

2023–	iDiv speaker
2023–	elected member of faculty council, Faculty of Economics and Management Science, University of Leipzig
2022–	vice dean for research, Faculty of Economics and Management Science, University of Leipzig
2019–	speaker of iDiv's graduate school yDiv
2019–2020	speaker of economists, Faculty of Economics and Management Science, University of Leipzig

2015–2018	elected member of the Konvent, Faculty of Economics and Social Sciences
2014–2018	member of the steering committee of Kiel University's Graduate Center
2013–2018	head of PhD Program <i>Quantitative Economics</i> , Faculty of Economics, Business and Social Sciences, Kiel University
2013–2018	member of the steering committee of Kiel University's research priority area Kiel Marine Science (KMS)
2012–2018	speaker for research area <i>Ocean Sustainability</i> , Cluster of Excellence <i>Future Ocean</i>
2011–2018	member of steering committee for E-Learning at the Kiel University

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## FINISHED PHD STUDENTS

11 principal advisor; 18 secondary advisor; 16 committee member at foreign universities

2025	Dr. Minh Nhat Pham (UiT The Arctic University of Norway; Opponent); Dr. Guillaume Bateille (Aix-Marseille Université, France; Rapporteur)
2024	Dr. Isha Dube (Leipzig University; principal advisor; now postdoc at University of Oldenburg) Dr. Rowan Dunn-Capper (Martin-Luther University Halle; reviewer and member of committee) Dr. Simon Jean (Université Paris-Saclay, France; Examineur)
2023	Dr. Benjamin Blanz (Hamburg University; member of committee)
2022	Dr. Rasmus Noss Bang (Norwegian School of Economics Bergen, Norway; member of Evaluation Committee; now University of Bergen)
2020	Dr. Felix Meier (Kiel University; principal advisor) Dr. Jennifer Okonkwo (Kiel University; principal advisor; now World Bank) Dr. Florence Briton (University of Brest; member of committee) Dr. Robbert Schaap (University of Heidelberg; reviewer)
2019	Dr. Jussi Lintunen (Aalto University, Helsinki, Finland, Opponent; now Luke Finland)
2018	Prof. Dr. Martin Hänsel (Kiel University; principal advisor; now tenure-track professor, Leipzig University) Prof. Dr. Kira Lancker (Kiel University; principal advisor; now University of Copenhagen) Dr. Michael Holtkamp (Kiel University, secondary advisor) Dr. François Bareille (Comue University Bretagne Loire; président du jury)
2017	Prof. Dr. Moritz Drupp (Kiel University; principal advisor; now University of Hamburg) Dr. Gunnar Dreßler (University of Osnabrück, Environmental Systems Research; secondary advisor; now UFZ Leipzig)

- Dr. Dionysios Karavidas (Kiel University; secondary advisor)
- Dr. Martina Stiasny (GEOMAR Kiel, marine Biology; member of committee; now University of Southampton)
- 2016 Dr. Christine Merk (Kiel University; secondary advisor; now tenured researcher, Kiel Institute for the World Economy)
- Dr. Luu Duc Thi (Kiel University; secondary advisor)
- Dr. Nadine Mengis (GEOMAR Kiel, Biogeochemistry; member of committee; now JRG lead, GEOMAR Kiel)
- 2015 Dr. Lorena Fricke (Kiel University; principal advisor)
- Dr. Julia Hoffmann (Kiel University; principal advisor, now Ministry of Environment, German Federal state of Schleswig Holstein)
- Dr. Christine Bertram (Kiel University; secondary advisor)
- Dr. Sven Offick (Kiel University; secondary advisor; now Economist at German Federal Ministry of Finance)
- 2014 Dr. Max T. Stöven (Kiel University; principal advisor, now Treasury of the German Federal state of Schleswig Holstein)
- Dr. Sandra Derissen (Kiel University; secondary advisor)
- Prof. Dr. John-Oliver Engler (Leuphana University; secondary advisor, now University of Vechta)
- Dr. Eva Papaioannou (Kiel University; Geography; secondary advisor; now GEOMAR Kiel)
- Prof. Dr. Marie Catherine Riekhof (Kiel University; secondary advisor; now tenured professor, University of Kiel)
- Dr. Esther Regnier (University of Paris I; rapporteur and member of committee; now maitre de conference, University of Brest, France)
- 2013 Dr. Ute Kapaun (Kiel University; principal advisor, now Ministry of Transport, German Federal State of Schleswig-Holstein)
- Prof. Dr. Frederik Noack (Kiel University; principal advisor; now tenured professor and Canada research chair, University of British Columbia, Vancouver)
- Dr. Lena Döpke (Kiel University; secondary advisor)
- Dr. Andre-Rene Wolf (Kiel University; secondary advisor)
- Dr. Diana van Dijk (Wageningen University; member of committee)
- Prof. Dr. Asle Gauteplass (Norwegian University of Science and Technology, Trondheim; member of committee; now Norwegian University of Science and Technology)
- Dr. Sophie Gourguet (University of Tasmania and Université de Bretagne Occidentale, Brest; president of committee; now Researcher at Institut Français de Recherche pour l'Exploitation de la Mer)
- 2011 Dr. Oliver Jakoby (University of Osnabrück; secondary advisor)
- Prof. Dr. Wilfried Rickels (Kiel University; secondary advisor; now full professor, University of Kiel and Kiel Institute for the World Economy)

	Dr. Sebastian Strunz (Leuphana University of Lüneburg; secondary advisor)
	Dr. Jaba Ghonghaze (Kiel University; secondary advisor)
	Prof. Dr. Anderies Richter (Wageningen University; member of committee; now tenured professor, Wageningen University)
2009	Prof. Dr. Thomas Lontzek (Kiel University; secondary advisor; now full professor, Technical University of Aachen)

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#### CURRENT PHD STUDENTS AS PRIMARY ADVISOR

Sophie Harzer  
Claudia Kelsall  
Lennard Kröger  
Konstantin Reisner  
Dorothee Seybold

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#### HOSTING OF POSTDOCS

2022–	Dr. Christina Martini
2021–	Dr. Yacouba Kassouri
2020–2021	Dr. Jennifer Uju Dim (nee Okonkwo), Economist at the World Bank, Environmental and Natural Resource, Energy Economics and Development
2019–2023	Dr. Hanna Schenk, d-fine consulting
2019–2022	Dr. Nadja Rüger, iDiv Senior Scientist
2019–	Dr. Patricia Grasse Dr. Julian Sagebiel
2019–2022	Dr. Veronika Liebelt, Federal Agency for Nature Conservation (BfN) Dr. Jasper N. Meya, Ministry of the Environment, Federal State of Bremen
2019–2020	Dr. Jürgen Groeneveld, Helmholtz Centre for Environmental Research (UFZ)
2018–2023	Prof. Dr. Kira Lancker, assistant professor (tenure track) of Resource Economics, University of Copenhagen
2018–2019	Prof. Dr. Martin Hänsel, assistant professor (tenure track) of Nature's Values, Leipzig University
2017–2020	Prof. Dr. Julia Bronnmann, Associate Professor of Environmental Economics, University of Southern Denmark, Esbjerg
2017–2018	Prof. Dr. Moritz Drupp, professor of Sustainability Economics, ETH Zurich
2017–2018; 2020	Dr. Martina Stiasny, Lecturer at University of Southampton
2016–2019	Dr. Max T. Stöven, at Ministry of Finance, Federal State of Schleswig-Holstein

2016–2018	Dr. Julia Hoffmann, at Ministry of Environment, German Federal State of Schleswig Holstein
2014–2017	Dr. Lorena Fricke, Referentin für Wirtschaft und Energie bei einem Industrieverband
2014–2015	Dr. Linda Kleemann, Consultant Data Scientist, ICT4D, M&E GFA Consulting Group, Hamburg
2014–2015	Prof. Dr. Marie-Catherine Riekhof, professor of Political Economy of Marine and Coastal Resource Management (tenured), Kiel University, Germany
2014–2016	Dr. Esther Regnier, maitre de conference (tenured), University of Brest, France
2014–2016	Prof. Dr. Wilfried Rickels, professor of Economics of Negative Emission Technologies, Kiel University, and head of research area <i>Global Commons and Climate Policy</i> , Kiel Institute for the World Economy
2013	Prof. Dr. Frederik Noack, Canada Research Chair (Tier II) Environmental Economics and Associate Professor, Food and Resource Economics Group, University of British Columbia, Vancouver, Canada
2009–2018	Dr. Jörn O. Schmidt, WorldFish Director for Sustainable Aquatic Food System
2008–	Dr. Rudi Voss

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#### THESES SUPERVISED

58 Master theses supervised  
42 Bachelor theses supervised  
26 Diploma theses supervised

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#### COURSES TAUGHT

Summer 2024	Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; Urban Economic Theory: Green Cities [Bachelor Economics, Leipzig University]
Winter 2024/2025	Natural Resource Use and Conservation Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; Sustainability Economics: Theory and Concepts [Bachelor Economics, Leipzig University]; Advanced Microeconomics, Central German Doctoral Programme in Economics
Summer 2024	Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; ValuGaps Summer School “Economic Valuation of Natural Capital: From Theory to Practice”
Winter 2023/2024	Natural Resource Use and Conservation Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; Advanced Microeconomics, Central German Doctoral Programme in Economics

- Summer 2023 Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; yDiv Summer School “Integrating ecological and economic theory for modelling biodiversity change”
- Winter 2022/2023 Natural Resource Use and Conservation Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; Advanced Microeconomics, Central German Doctoral Programme in Economics
- Summer 2022 Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]
- Winter 2021/2022 Natural Resource Use and Conservation Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; Advanced Microeconomics, Central German Doctoral Programme in Economics
- Summer 2021 Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]
- Winter 2020/2021 Natural Resource Use and Conservation Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]; Advanced Microeconomics, Central German Doctoral Programme in Economics
- Summer 2020 Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]
- Winter 2019/2020 Natural Resource Use and Conservation Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]
- Summer 2019 Environmental and Biodiversity Economics [Master Economics, Joint International Master Programme in Sustainable Development, Leipzig University]
- Winter 2018/2019 Sustainability analysis of energy transformation [Joint International Master Programme in Sustainable Development, Leipzig University]
- Summer 2018 Theories of Distributive Justice and Sustainability [Master Economics; Master Environmental and Resource Economics]; Spatial Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]; Seminar Urban Economics [Bachelor Economics]
- Winter 2017/2018 Environmental Economics [Master Economics; Master Environmental and Resource Economics]; Economic Growth [Master Economics; Master Environmental and Resource Economics]; Urban Economics [Bachelor Economics]
- Winter 2016/2017 Environmental Economics [Master Economics; Master Environmental and Resource Economics]; Theories of Distributive Justice and Sustainability [Master Economics; Master Environmental and Resource Economics]; Seminar Resource Economics [Master Economics]; Urban Economics [Bachelor Economics]; Sustainability Economics [Bachelor Economics, Master Sustainability, Society and the Environment]

- Summer 2016 Resource Economics [Master Environmental and Resource Economics; Master Economics]; Spatial Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]
- Winter 2015/2016 Environmental Economics [Master Economics; Master Environmental and Resource Economics]; Theories of Distributive Justice and Sustainability [Master Economics; Master Environmental and Resource Economics]; Seminar Resource Economics [Master Economics]; Urban Economics [Bachelor Economics]; Sustainability Economics [Bachelor Economics, Master Sustainability, Society and the Environment]
- Summer 2015 Resource Economics [Master Environmental and Resource Economics; Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]; Seminar Environmental Economics [Bachelor Economics]; Seminar Urban Economics [Bachelor Economics]
- Winter 2014/2015 Environmental Economics [Master Economics; Master Environmental and Resource Economics]; Theories of Distributive Justice and Sustainability [Master Economics; Master Environmental and Resource Economics]; Seminar Resource Economics [Master Economics]; Urban Economics [Bachelor Economics]; Sustainability Economics [Bachelor Economics, Master Sustainability, Society and the Environment]
- Summer 2014 Resource Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]
- Winter 2013/2014 Environmental Economics [Master Economics]; Theories of Distributive Justice [Master Economics]; Seminar Resource Economics [Master Economics]; Urban Economics [Bachelor Economics]; Sustainability Economics [Bachelor Economics, Master Sustainability, Society and the Environment]
- Summer 2013 Environmental Economics [Master Economics]; Resource Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]; Urban Economics [Bachelor Economics]
- Summer 2012 Environmental Economics [Master Economics]; Resource Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]; Seminar Urban Economics
- Winter 2011/2012 Theories of Distributive Justice [Master Economics]; Seminar Resource Economics
- Summer 2011 Resource Economics [Master Economics]; Spatial Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]; Seminar Urban Economics
- Winter 2010/2011 Urban Economics [Bachelor Economics]; Theories of Distributive Justice [Master Economics]; Seminar Resource Economics
- Summer 2010 Spatial Economics [Master Economics]; Seminar Resource Economics [joint with SDU Esbjerg]; Seminar Urban Economics
- Winter 2009/2010 Urban Economics [Bachelor Economics]; Seminar Resource Economics
- Summer 2009 Sustainability Economics [Bachelor Economics]; Seminar Resource Economics
- Winter 2008/2009 Urban Economics [Bachelor Economics]; Seminar Resource Economics

