

CURRICULUM VITAE

Martin F. Quaas

EDUCATION

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| 2004 | PhD, Economics, University of Heidelberg (summa cum laude) |
| 1998 | Diplom (MSc), Physics, University of Duisburg |
| 1993 | Abitur, Helmholtz-Gymnasium, Essen |
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POSITIONS

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|------------|--|
| since 2010 | Professor of Environmental, Resource-, and Ecological Economics (W2, tenured), Department of Economics, Christian-Albrechts-University of Kiel |
| 2007-2010 | Juniorprofessor of Environmental, Resource-, and Ecological Economics, Department of Economics, Christian-Albrechts-University of Kiel |
| 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 Ghandi Institute for Development Research, Mumbai, India (February–March) |
| 2000 | Research and Teaching Assistant, Alfred Weber Institute, University of Heidelberg |
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FIELDS OF RESEARCH

- Ecological Economics
- Environmental and Natural Resource Economics
- Urban and Geographical Economics

EXTERNALLY FUNDED RESEARCH PROJECTS

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)

PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

forthcoming

[48] Blenckner T, Llope M, Möllmann C, Voss R, Quaas MF, Casini M, Lindegren M, Folke C, Stenseth N. Climate and fishing steer ecosystem regeneration to uncertain economic futures. *Proceedings of the Royal Society B*.

[47] Hoffmann J, and Quaas MF. Common Pool Politics and Inefficient Fishery Management. *Environmental and Resource Economics*. doi 10.1007/s10640-014-9842-4

[46] Voss R, Quaas MF, Schmidt JO and Kapaun U. Ocean acidification may aggravate social-ecological trade-offs in coastal fisheries. *PLoS ONE*.

2014

[45] Dovern 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.

[44] 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.

[43] Lukomska N, Quaas MF, Baumgärtner S (2014). Bush encroachment control and risk management in semi-arid rangelands. *Journal of Environmental Management* **145**(1):24–34.

[42] Narita D, and Quaas MF (2014). Adaptation to Climate Change and Climate Variability: Do It Now or Wait and See? *Climate Change Economics* **05**(04):1450013.

[41] Olbrich R, Quaas MF, Baumgärtner S (2014). Personal Norms of Sustainability and Farm Management Behavior. *Sustainability* **6**(8), 4990-5017.

[40] Papaioannou EA, Vafeidis AT, Quaas MF, Schmidt JO, Strehlow H (2014). Using indicators based on primary fisheries data for assessing the development of the German Baltic small-scale fishery and reviewing its adaptation potential to changes in resource abundance and management during 2000–09. *Ocean & Coastal Management* **98**:38–50.

[39] Rickels W, Quaas MF, Visbeck M (2014). How healthy is the human-ocean system? *Environmental Research Letters* **9** 044013.

[38] Thébaud O, Doyen L, Innes J, Lample M, Macher M, Mahévas S, Mullon C, Planque B, Quaas MF, Smith T, Vermard Y (2014). Building ecological-economic models and scenarios of marine resource systems: Workshop report. *Marine Policy* **43**:382–386.

[37] Visbeck M, Kronfeld-Goharani U, Neumann B, Rickels W, Schmidt JO, van Doorn E, Matz-Lück N, Ott K, Quaas MF (2014). Securing Blue Wealth: The Need for a Special Sustainable Development Goal for the Ocean and Coasts. *Marine Policy* **48**:184–191.

[36] Voss R, Quaas MF, Schmidt JO, and Hoffmann J (2014). Regional trade-offs from multi-species maximum sustainable yield (MMSY) management options. *Marine Ecology Progress Series* **498**:1–12.

[35] Voss R, Quaas MF, Schmidt JO, Tahvonen O, Lindegren M, Möllmann C (2014). Assessing Social-Ecological Trade-Offs to Advance Ecosystem-Based Fisheries Management. *PLoS ONE* **9**(9): e107811.

2013

[34] Quaas MF, van Soest D, and Baumgärtner S (2013). Complementarity, impatience, and the resilience of natural-resource-dependent economies. *Journal of Environmental Economics and Management* **66**(1):15–32.

[33] Quaas MF and Requate T (2013). Sushi or Fish Fingers? Seafood Diversity, Collaps-

ing Fish Stocks, and Multi-species Fishery Management. *Scandinavian Journal of Economics* **115**(2):381–422.

[32] Quaas MF, Requate T, Ruckes K, Skonhoft A, Vestergaard N, and Voss R (2013). Incentives for Optimal Management of Age-Structured Fish Populations. *Resource and Energy Economics* **35**(2):113–134.

[31] Derissen S and Quaas MF (2013). Combining performance-based and action-based payments to provide environmental goods under uncertainty. *Ecological Economics* **85**:77–84.

[30] Froese R and Quaas MF (2013). Rio+20 and the Reform of the Common Fisheries Policy in Europe. *Marine Policy* **39**:53–55.

[29] Kapaun U and Quaas MF (2013). Does the optimal size of a fish stock increase with environmental uncertainties? *Environmental and Resource Economics* **54**(2):293–310.

[28] Tahvonen O, Quaas MF, Schmidt JO, Voss R (2013). Optimal harvesting of an age-structured schooling fishery. *Environmental and Resource Economics* **54**(1):21–39.

2012

[27] Quaas MF, Froese R, Herwartz H, Requate T, Schmidt JO, and Voss R (2012). Fishing Industry Borrows from Natural Capital at High Shadow Interest Rates. *Ecological Economics* **82**:45–52.

Reviewed in *Science for Environment Policy*, European Commission DG Environment News Alert Service (2012), Issue 309.

[26] Quaas MF and Baumgärtner S (2012). Optimal grazing management rules in semi-arid rangelands with uncertain rainfall. *Natural Resource Modeling* **25**(1):364–387.

[25] Baumgärtner S, Glotzbach S, Hoberg N, Quaas MF and Stumpf KH (2012). Economic analysis of trade-offs between justices. *Intergenerational Justice Review* 2012(1):4–9. Translated in German and reprinted as: Ökonomische Analyse der Trade-Offs zwischen Gerechtigkeiten, *Journal für Generationengerechtigkeit* **14**(1):10–18.

[24] Froese R and Quaas MF (2012). Mismanagement of the North Sea cod by the Council of the European Union. *Ocean & Coastal Management* **70**:54–58.

[23] Olbrich R, Quaas MF, Baumgärtner S (2012). A survey of commercial cattle farmers in semi-arid rangelands of Namibia on risk, sustainability and management. *Schmollers Jahrbuch / Journal of Applied Social Science Studies* **132**(3):463–471.

[22] Papaioannou EA, Vafeidis AT, Quaas MF, and Schmidt JO (2012). The development and use of a spatial database for the determination and characterization of the state of the German Baltic small-scale fishery sector. *ICES Journal of Marine Science* **69**(8):1480–1490.

[21] Schlüter M, McAllister RRJ, Arlinghaus R, Bunnefeld N, Eisenack K, Hölker F, Milner-Gulland EJ, Müller B, Nicholson E, Quaas MF, and Stöven M (2012). New horizons for managing the environment: A review of coupled social-ecological systems modeling. *Natural Resource Modeling* **25**(1):219–272.

[20] Skonhoft A, Vestergaard, N and Quaas MF (2012). Optimal harvest in an age structured model with different fishing selectivity. *Environmental and Resource Economics* **51**(4), 525–544.

2011

[19] Baumgärtner S, Derissen S, Quaas MF, and Strunz S (2011). Consumer preferences determine resilience of ecological-economic systems. *Ecology & Society* **16**(4): Article 9.

[18] Derissen S., M.F. Quaas, and S. Baumgärtner (2011). The relationship between resilience and sustainable development of ecological-economic systems. *Ecological Economics*, **70**:1121–1128.

- [17] Froese R., T.A. Branch, A. Proelß, M.F. Quaas, K. Sainsbury, and C. Zimmermann (2011). Generic Harvest Control Rules for European Fisheries. *Fish and Fisheries*, **12**(3):340–351.
- [16] Froese, R and Quaas MF (2011). Three Options for Rebuilding the Cod Stock in the Eastern Baltic Sea. *Marine Ecology Progress Series*, **434**:197–200.
- [15] Müller B, Quaas MF, Frank K, and Baumgärtner S (2011). Pitfalls and potential of institutional change: Rain-index insurance and the sustainability of rangeland management. *Ecological Economics*, **70**:2137–2144.
- [14] Villasante S, Rodriguez D, Antelo M, Quaas MF, and Österblom H (2011). The Global Seafood Market Performance Index: A theoretical proposal and potential empirical applications. *Marine Policy*, **36**(1):142–152.
- [13] 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

- [12] Baumgärtner S and Quaas MF (2010). What is Sustainability Economics? *Ecological Economics*, **69**:445–450.
- [11] Baumgärtner S and Quaas MF (2010). Sustainability economics - general versus specific, and conceptual versus practical. *Ecological Economics*, **69**:2056–2059.
- [10] Baumgärtner S and Quaas MF (2010). Managing Increasing Environmental Risks Through Agro-biodiversity and Agri-environmental Policies. *Agricultural Economics* **41**(5):483–493.
- [9] Jöst F and Quaas MF (2010). Environmental and Population Externalities. *Environment and Development Economics*, **15**(01):1–19.
- [8] Lange A and Quaas MF (2010). Analytical characteristics of the core-periphery model. *International Regional Science Review*, **33**(4):437–455.

2009

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

2008

- [6] Quaas MF and Baumgärtner S (2008). Natural vs. Financial Insurance in the Management of Public-good Ecosystems. *Ecological Economics* **65**:397–406.
- [5] 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.
- [2] Quaas MF (2007). Pollution-reducing Infrastructure and Urban Environmental Policy, *Environment and Development Economics* **12**(2):213–234.
- [1] Lange A and Quaas MF (2007). Economic Geography and the Effect of Environmental Pollution on Agglomeration, *The B.E. Journal of Economic Analysis & Policy* 7(1, Topics), Article 52.

ORGANISATION OF INTERNATIONAL SCIENTIFIC CONFERENCES

- 2014 International Workshop on *Intergenerational Equity and Efficiency under Uncertainty*, Camp Reinsehlen
- 2012 International Workshop on *Responsibility for Sustainability. Combining the Perspectives of Economics and Philosophy*, Camp Reinsehlen
International Workshop on *Managing Genetic Diversity of Fishes?* List, Sylt
- 2010 ICES Workshop on *Introducing coupled ecological-economic modelling and risk assessment into management tools (WKIMM)*, Kiel
- 2008 International workshop *Conceptualizing Sustainability under Uncertainty*, Camp Reinsehlen
Session on Marine Life and Biodiversity, 2nd Bi-Annual Symposium: *The Future Ocean*, Kiel
- 2007 7th Conference of the European Society for Ecological Economics: *Integrating Natural and Social Sciences for Sustainability*, Leipzig
- 2004 International workshop *Environment and Network Industries*, University of Heidelberg
- 2003 Member of the scientific committee, Conference *New blood in ecotoxicology*, Society of Environmental Toxicology and Chemistry, University of Heidelberg
- 2003 International workshop *Spatial Environmental Economics*, University of Heidelberg

REVIEWER FOR INTERNATIONAL JOURNALS

Agricultural Economics; American Journal of Agricultural Economics; Biological Conservation; Biomass & Bioenergy; Conservation Biology; Eastern Economic Journal; Ecological Economics; Ecological Modelling; Ecosystem Health; 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 Environmental Change; ICES Journal of Marine Sciences; Journal of Applied Ecology; Journal of Applied Ichthyology; Journal of Bioeconomics; 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 Population Economics; Journal of Mathematical Biology; Journal of Urban Economics; Marine Resource Economics; Natural Resource Modeling; Nature Climate Change; Papers in Regional Science; PLOS One; Rangeland Ecology and Management; Regional Science and Urban Economics; Resource and Energy Economics; Scandinavian Journal of Economics; South African Journal of Wildlife Research; Sustainability

REVIEWER FOR FUNDING AGENCIES

board: German Academic Exchange Service (DAAD) postdoc-fellowships

ad hoc: German Federal Ministry of Education and Research (BMBF); German National Academic Foundation; German Research Foundation (DFG); Austrian Science Fund (FWF); Czech Science Foundation; Netherlands Organization for Scientific Research (NWO); Research Council of Norway; U.S.-Israel Binational Science Foundation

COMMITTEES/EDITORIAL BOARD

- since 2015 DFG Senatskommission Agroecosystem Research
- 2014 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
- since 2013 associate editor, Environment and Development Economics (Cambridge University Press)
- since 2012 DFG Senatskommission Biodiversity Research

UNIVERSITY ADMINISTRATION

- since 2013 head of PhD Program *Quantitative Economics*, Faculty of Economics, Business and Social Sciences, Kiel University
- since 2012 speaker for research area *Ocean Sustainability*, Cluster of Excellence *Future Ocean*
- since 2011 member of steering committee for E-Learning at the Kiel University

FINISHED PHD STUDENTS

- 2014 Sandra Derissen (Kiel University; co-supervisor)
John-Oliver Engler (Leuphana University; co-supervisor)
Eva Papaioannou (Kiel University; co-supervisor)
Esther Regnier (University of Paris I; rapporteur and member of committee)
Marie Catherine Riekhof (Kiel University; Geography; co-supervisor)
Max T. Stöven (Kiel University; principal supervisor)
- 2013 Diana van Dijk (Wageningen University; member of committee)
Lena Döpke (Kiel University; co-supervisor)
Asle Gauteplass (Norwegian University of Science and Technology, Trondheim; member of committee)
Sophie Gourguet (University of Tasmania and Université de Bretagne Occidentale, Brest; president of committee)
Ute Kapaun (Kiel University; principal supervisor)
Frederik Noack (Kiel University; principal supervisor)
Andre-Rene Wolf (Kiel University; co-supervisor)
- 2011 Anderies Richter (Wageningen University; member of committee)
Oliver Jakoby (University of Osnabrück; co-supervisor)
Wilfried Rickels (Kiel University; co-supervisor)
Sebastian Strunz (Leuphana University of Lüneburg; co-supervisor)
Jaba Ghonghaze (Kiel University; co-supervisor)

2009 Thomas Lontzek (Kiel University; co-supervisor)

CURRENT PHD STUDENTS

primary supervisor: Julia Hoffmann; Lorena Gola; Anna Kropina; Moritz Drupp; Martin Hänsel; Kira Lancker

co-supervisor: Christine Bertram (Kiel Univ.); Kristina Boerder (Dalhousie Univ., Biology); Erik van Doorn (Kiel Univ., Law of the Sea)

COURSES TAUGHT

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

Summer 2008 Resource Economics [Master Economics]; Seminar Resource Economics

Kiel, spring 2015