

CURRICULUM VITAE

Christian P. Traeger

Email: traeger@uio.no, Phone Europe: +47 48611444, Phone US: +1 510 717 5856

PROFESSOR 2017 - Present

Department of Economics, University of Oslo,
Box 1095 Blindern, 0317 Oslo, Norway

RESEARCH DIRECTOR 2016 - Present

Center for Energy, Climate, and Exhaustible Resources
IFO Institute for Economic Research, Munich, Germany

ASSOCIATE PROFESSOR 2016

Department of Economics, University of Oslo,
Box 1095 Blindern, 0317 Oslo, Norway

AFFILIATIONS

Associated Fellow, CEPR Research & Policy Network Climate Change 2020 - Present

CESifo Research Network, Fellow since 2018, Affiliate 2011- Present

Department of A&R Economics, UC Berkeley, Visiting Scholar Affiliation 2017 - 2023

Scientific Adviser, Frisch Centre, Energy & Environment, Oslo, Norway 2017 - 2021

ASSISTANT PROFESSOR 2008 - 2016

Department of Agricultural & Resource Economics
207 Giannini Hall #3310, University of California
Berkeley, CA 94720-3310, USA

POSTDOCTORAL FELLOW

Department of Agricultural & Resource Economics 2006 - 2008
and Department of Economics, UC Berkeley

EDUCATION

Doktor (Ph.D.)	summa cum laude	Economics	University of Heidelberg	2006
Diplom (M.A.)	sehr gut	Economics	University of Heidelberg	2003
MA	GPA: 3.96/4.0	Physics	SUNY Stony Brook	2002
Vordiplom (BA)	sehr gut	Physics	University of Heidelberg	1998 - 2000
Vordiplom (BA)	no GPA	Economics	University of Heidelberg	1996 - 1997

VISITING

UC Berkeley, UC Santa Barbara, University of Kobe (sabbatical)	S2023
Becker Friedman Institute, University of Chicago (short-term)	F2016
Department of Economics, University of Miami (sabbatical)	F2014, F2015

PEER REVIEWED PUBLICATIONS

- Karp, L. and C. Traeger (2024). Smart Cap. Accepted in *Journal of the European Economic Association*.
- Karp, L. and C. Traeger (2024). Prices versus Quantities Reassessed. Accepted in *Journal of Environmental Economics and Management*.
- Drupp, M.A., M.C. Hänsel, E.P. Fenichel, M. Freeman, C. Gollier, B. Groom, G.M. Heal, P.H. Howard, A. Millner, F.C. Moore, F. Nesje, M.F. Quaas, S. Smulders, T. Sterner, C. Traeger, F. Venmans (2024), *The increasing benefits from scarce ecosystems*. Accepted in *Science Policy Forum*.
- Traeger, C.P. (2023), ACE–Analytic Climate Economy. *American Economic Journal: Economic Policy*, 15(3):372-406.
- Lemoine, D. and C.P. Traeger (2016), Ambiguous Tipping Points. *Journal of Economic Behaviour and Organization*, 132B:5-18.
- Lemoine, D. and C.P. Traeger (2016), The Economics of Tipping the Climate Dominoes, *Nature Climate Change* 6:514-20.
- Crost, B. and C.P. Traeger (2014), Optimal CO2 Mitigation under Damage Risk Valuation, *Nature Climate Change* 4: 631–636.
- Traeger, C.P. (2014), A 4-stated DICE: Quantitatively Addressing Uncertainty Effects in Climate Change. *Environmental and Resource Economics* 59:1-37.
- Traeger, C.P. (2014), On Option Values in Environmental and Resource Economics. *Resource and Energy Economics* 37: 242-252.
- Jensen, S. and C.P. Traeger (2014), Optimal Climate Change Mitigation under Long-Term Growth Uncertainty: Stochastic Integrated Assessment and Analytic Findings, *European Economic Review* 69: 104-125.
- Traeger, C.P. (2014), Why Uncertainty Matters - Discounting under Intertemporal Risk Aversion and Ambiguity, *Economic Theory* 56(3): 627-664.
- Lemoine, D. and C.P. Traeger (2014), Watch Your Step: Optimal Policy in a Tipping Climate, *American Economic Journal: Economic Policy* 6(1), 1–31.
- Traeger, C.P. (2013), Discounting Under Uncertainty: Disentangling the Weitzman and the Gollier Effect, *Journal of Environmental Economics and Management* 66(3): 573–582.
- Crost, B. and C.P. Traeger (2013), Optimal Climate Policy: Uncertainty versus Monte Carlo, *Economics Letters* 120(3): 552–558.
- Schneider, M.T., C.P. Traeger, R. Winkler (2012), Trading off generations: Equity, discounting, and climate change. *European Economic Review* 56: 1621–1644, 2012.
- Traeger, C.P. (2011), Sustainability, Limited Substitutability and Non-Constant Social Discount Rates, *Journal of Environmental Economics and Management* 62(2):215-228.
- Traeger, C.P. (2009), Recent Developments in the Intertemporal Modeling of Uncertainty, *Annual Review of Resource Economics* 1:26-85.

OTHER PUBLICATIONS:

- Book Draft 2023:** Karp, L., and C. Traeger, *Dynamic Methods in Environmental and Resource Economics*. Available on my website.
- Traeger, C., G. Perino, K. Pittel, T. Requate, A. Schmitt (2019), *Das Flexicap – eine innovative CO₂-Bepreisung für Deutschland*, *ifo Schnelldienst* 72, Nr. 18, 38-45.

- Karp, L., and C. Traeger (2013), Discounting. In: Shogren, J.F., (ed.), *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, volume 2, pp. 286-292 Amsterdam: Elsevier.
- Karp, L. and C. Traeger (2009) Generalized Cost Benefit Analysis and Social Discounting with Intertemporally Dependent Preferences.
- Traeger, C. (2007), Theoretical aspects of long-term evaluation in environmental economics, Ph.D. Thesis, HeiDoc, <http://www.ub.uni-heidelberg.de/archiv/7049>.
- Traeger, C. (2004), *Freedom of choice and the structure of intertemporal decision-making*, Master Thesis, HeiDoc, <http://www.ub.uni-heidelberg.de/archiv/4566>. Abstract available in English, full document published in German.

WORKING PAPERS

Environmental & Resource Economics

- C. Traeger (2023), IAMs and CO2 Emissions – An Analytic Discussion.
- Casey, G., W. Jeon, C. Traeger (2023), The Macroeconomics of Clean Energy Subsidies.
- Meier, F. and C. Traeger (2023), Solace - Uncertain Remedies to Fight Uncertain Consequences: The Case of Solar Geoengineering
- Meier, F. W. Rickels, M. Quaas, and C. Traeger (2023), Carbon dioxide removal in an analytic global climate economy.
- Jensen, S. and C. Traeger (2023), Pricing an Unknown Climate.
- Sakamoto, H. and C. Traeger (2023). Self-enforcing stable sets.
- Meier, F. and C. Traeger (2021), Solace - Solar geoengineering in an analytic climate economy.
- Jensen, S. and C. Traeger (2021), Pricing Climate Risk.
- Traeger, C. (2021), Uncertainty in the Analytic Climate Economy.

Risk, Uncertainty, Discounting, and Decision Theory

- Traeger, C. (2020), Characterizing and Comparing Intrinsic Risk Attitude.
- Traeger, C. (2020), Deliberate Choice under a Lack of Confidence.
- Traeger, C. (2012), Once Upon a Time Preference - How Rationality and Risk Aversion Change the Rationale for Discounting.
- Traeger, C. (2011) Discounting and Confidence.

GRANTS, FELLOWSHIPS, AWARDS

EconSys, Research Council of Norway, PI	2023
NIMICAR, Research Council of Norway, PI	2021-2025
Expect, UiO Energy, PI	2021-2024
OceanNETs, Horizon 2020, European Union	2020-2025
Resourceful, Research Council of Norway, PI	2019-2023
FoReSee, BMBF, German Ministry of Education and Research	2018-2022
Sustainable Transitions, Research Council of Norway	2017-2020
Sustainable Climate Risk Management, National Science Foundation, Berkeley PI	2012 - 2018
UCE3 Minigrant	2012 - 2013
Giannini Foundation Mini-Grant	2009-10, 2010-11, 2012-13
Regents Junior Faculty Fellowship	2011

Distinguished CESifo Affiliate Award	2010
Dulger Prize of the University of Heidelberg (Dissertation)	2007
COR Young Faculty Grant, UC Berkeley	2008 – 2009
Ciriacy-Wantrup Postdoctoral Fellowship	2006 - 2008
German Academic Exchange Service (DAAD)	2005 – 2006
German Research Foundation (DFG)	2002 – 2005
Fulbright Commission	2001 – 2002

TEACHING EXPERIENCE

Graduate Level, University of Oslo:

Resource Economics	2017,2018,2019,2020,2021,2023
Economic Dynamics & Uncertainty	2020,2021,2023
Environmental Economics	2018,2019,2020,2021,2022
Equilibrium, Welfare, & Information	2018,2019
Dynamic Modeling Mini-Class	2016

Graduate Level, University of California, Berkeley:

Dynamic Methods in Environmental & Resource Economics	2008,2010,2012,2016
Dynamic Modeling	2015
Environmental & Resource Economics	2008,2009,2010,2011,2013
Lecture series: Intertemporal Risk Aversion	2007

Undergraduate Level:

Environmental Economics, University of Oslo	2021,2022
Economics of Climate Change, UC Berkeley	2009, 2010, 2011,2012,2013
Teaching Assistant: Microeconomics, University of Heidelberg	2004
Teaching Assistant: Electrodynamics, SUNY Stony Brook	2002

Summer Schools:

Risks and Uncertainty in Climate Change Policies, Kiel Institute for the World Economy, Summer School on the Economics of Climate Change	2021
Climate Change Assessment: Economic Models and Evaluation Criteria, EAERE-FEEM-VIA summer school in resource & environmental economics	2018
Integrated Assessment of Climate Change, SCRiM, Penn State	2015

REFEREE EXPERIENCE

Editorial board: Journal of Environmental Economics and Management 2013-2023
Reviewer: American Economic Review, Nature, The Review of Economic Studies, Journal of Political Economy, The Review of Financial Studies, Economic Journal, Journal of Public Economics, Journal of Economic Theory, Economic Theory, International Economics Review, American Economic Journals: Economic Policy, American Economic Journals: Microeconomics, American Economic Journals: Macroeconomics, Journal of the European Economic Association, European Economic Review, Social Choice and Welfare, Scandinavian Journal of Economics, Management Science, The BE Journal of Economic Analysis & Policy, Economics Letters, Economics E-Journal, Resource and Energy Economics, Environmental and Resource Economics, Journal of Economic Dynamics and Control, Energy Economics, Ecological Economics, Climatic Change, Climate Change Letters, Deutsche Bundesbank Discussion Papers, American Journal of Agricultural Economics, Ethics, Proceedings of the National Academy of

INVITED PRESENTATIONS

University of Amsterdam, Department of Economics	2024
University of St. Gallen and CEPR, Sustainability and Public Policy Workshop	2024
University of Stanford, Doerr School of Sustainability	2024
University of Hawaii, Department of Economics	2023
Waseda University, Climate Change Workshop	2023
Kyoto University, Natural Resource Economics	2023
Kobe University, Department of Economics	2023
UC Santa Barbara, Workshop on Natural Resource Economics Theory	2023
London School of Economics, Environmental Economics Seminar	2022
Resources for the Future, Workshop on Solar Radiation Management	2022
University of Hamburg, Department of Economics	2022
Paris School of Economics, Global Issues Workshop	2022
University of Montpellier, Department Seminar	2021
University of Lausanne, Workshop, Can economic policy mitigate climate change?	2021
VfS-Annual Conference 2021 (German Economic Meetings)	2021
Virtual Seminar on Climate Economics, Federal Reserve Bank of San Francisco	2021
University of Miami, Department of Economics	2020
Fuqua School of Business, Finance seminar, Duke University	2019
East Carolina University, Troxler Symposium (Environmental Uncertainties)	2019
CESifo area conference on Energy and Climate Economics	2019
University of Zurich, Workshop, How do we tackle climate change uncertainty	2019
University of Bern, Department of Economics	2019
Danish Environmental Economics Conference, Keynote	2019
University of Frankfurt, Finance seminar	2019
ZEW Mannheim & University of Heidelberg	2019
University of Miami, Department of Economics	2019
Heidelberger Bruecke, University of Heidelberg	2018
Climate Lunch, UC Berkeley	2018
Normative Ethics and Welfare Conference, University of Pennsylvania	2018
International Workshop Frontiers in Climate Change Economics, U Copenhagen	2018
CESifo area conference on Energy and Climate Economics	2018
World Congress of Environmental and Resource Economists 2018	2018
FUR 2018 (Foundations of Utility and Risk), York, Plenary Panel	2018
University of Oldenburg, Workshop, Germany	2018
Frisch Centre, Norway	2018
Paris School of Economics, France	2018
University of Hamburg, Germany	2017
CESifo area conference on Energy and Climate Economics	2016
University of Gothenburg, Sweden	2017
SITE Workshop, Stanford	2017
University of Arizona, Tucson, Department of Economics	2017
Iowa State University, Ames, Department of Economics	2016
TU Munich & Ifo Institute, SEEM, Munich	2016
CESifo area conference on Energy and Climate Economics	2016

University of Chicago, BFI & EPIC	2016
University of Miami, Department of Economics	2016
Colorado State, Fort Collins, Department of Economics	2016
College de France, Paris	2015
University of Montreal, Ethics of Social Risk, Plenary	2015
University of Tennessee, Knoxville, Workshop Tipping Points	2015
University of Oslo, Department of Economics	2015
Verein für Socialpolitik, Heidelberg, Germany	2015
University of Toulouse, France	2015
London School of Economics, UK	2015
Ohio State University	2015
University of Cambridge, UK	2015
University of Miami, Department of Economics	2014
VU University of Amsterdam	2014
Stanford University, Environmental Economics Seminar	2014
University of Oslo, Department of Economics	2014
University of Minnesota, Heller-Hurwicz Economics Institute, Climate Workshop	2014
INSEAD, France	2014
University of Miami, Department of Economics	2013
University of Heidelberg, Department of Economics	2013
TIGER conference on Sustainable Growth, Toulouse, France	2013
Pricing Climate Risk, ASU, Tempe	2013
NBER Spring Meeting, Boston.	2013
UC San Diego, Department of Economics	2013
Conference on Climate and the Economy, IIES Stockholm	2012
Cowles Foundation, Workshop on Macroeconomics and the Environment	2012
University of Stockholm, Department Seminar IIES, Stockholm	2012
University of Hamburg, Department of Economics	2012
University of Kiel, Department of Economics	2012
RICE University, Houston, Macroeconomics	2011
Environmental Protection Agency	2011
University of Oslo, Department of Economics	2011
LBL, Climate Change Group	2011
Potsdam Institute for Climate Impact Research	2011
CESifo area conference on Energy and Climate Economics	2010
University of Oslo, ESOP, Climate Change and Distribution Workshop	2010
University of Toulouse, Department of Economics/LERNA	2010
University of Oxford, Department of Economics, OxCarre Seminar	2009
University of Washington Seattle, Department of Economics	2009
University of New South Wales, School of Economics	2008
University of Queensland, School of Economics	2008
University of Melbourne, Department of Economics	2008
University of Washington Pullman, School of Economic Sciences	2008
University of Maryland, Department for Agricultural and Resource Economics	2008
University of Wyoming, Department of Economics and Finance	2008
University of Zurich, Microeconomics IO & Environmental Economics	2008
University of Konstanz, Department of Economics	2008
University of Karlsruhe, Institute for Economic Theory and Operations Research	2007
University of Konstanz, Philosophy, Probability, and Modelling Group	2004

PRESENTATIONS AT CONFERENCES

ASSA/AEA Meetings	2014,2015,2016,2018,2024
European Economic Association	2005,2009,2011,2018,2022,2023
European Meeting of the Econometric Society	2011,2018,2022,2023
Western Economic Association International Meeting	2023
SURED (Sustainable Resource Use and Economic Dynamics)	2010,2012,2014,2016,2018, 2020,2022
European Association of Environmental & Resource Economists	2004,2005,2007, 2009,2011,2012,2013,2016,2017,2021
AURÖ (VfS, incl Committee for Environmental and Resource Economics)	2015,2018,2022
CEPR Climate Change Workshop	2020
Society for the Advancement of Economic Theory	2011,2019
World Congress of Environmental and Resource Economists	2010,2014,2018
European Association of Environmental & Resource Economists	2004,2005,2007, 2009,2011,2012,2013,2016,2017
Risk, Uncertainty, Decision Making (RUD)	2016
Association for Public Economic Theory	2015
Association of Environmental and Resource Economists	2011,2015
Occasional Workshop Environmental and Resource Economics, Santa Barbara	2008,2010,2013
Social Choice and Welfare	2010
Mathematical Science Research Institute, Climate Change Workshop, UC Berkeley	2008
Young Scientists Workshop in Environmental and Resource Economics, Zurich	2007
Society for Ecological Economics	2004,2007
Econometric Society World Congress	2005
European Summer School in Resource and Environmental Economics, Venice	2004,2005
First International Winter School in Physics of Socio-Economic Systems, Konstanz	2004

ORGANIZED WORKSHOPS

Heterogeneous Agents and the Macroeconomics of Climate Change, ifo Institute	2018
Joint Mathematics Meetings, <i>Invited Session Organizer</i> , Economics and Sustainability	2010
Ambiguity, Uncertainty and Climate Change, UC Berkeley, <i>Co-Organizer</i>	2009
Sustainability and Uncertainty - A Challenge for Interdisciplinary Theory Formation, Berlin, <i>Co-Organizer</i> , Funded by the Ministry of Education and Research	2004

SELECTED NON-ACADEMIC WORK EXPERIENCE

UNDP/UNEP, Small Grants Programme (SGP), Biodiversity Conservation and Climate Change, Quito, Ecuador, Internship	02/1998 - 03/1998
--	-------------------

LANGUAGES

German (native), English (fluent), Spanish (decent), French (basic)

CITIZENSHIPS

Germany, US