



Charles D. Kolstad

Senior Fellow at the Stanford Institute for Economic Policy Research and at the Precourt Institute for Energy, Emeritus

Policy Institutes

 Curriculum Vitae available Online

Bio

BIO

Senior Fellow Emeritus, Stanford University (Stanford Institute for Economic Policy Research and Precourt Institute, Stanford Doerr School of Sustainability)

Distinguished Professor of Economics Emeritus, University of California, Santa Barbara

Prof. Charles Kolstad is Senior Fellow at Stanford University, appointed jointly in the Stanford Institute for Economic Policy Research and the Doerr School of Sustainability (Precourt Institute for Energy), becoming emeritus in 2022. Prior to joining Stanford in 2012, Prof. Kolstad was a Distinguished Professor of Economics at the University of California (Santa Barbara) where he is also now emeritus. Prior to this he was a professor at the University of Illinois in Urbana-Champaign. He has also been a visiting faculty member at MIT, the Norwegian School of Economics, Oxford University, UC Berkeley, KU Leuven and the New Economic School (Moscow).

He is a past president and Fellow of the Association of Environmental and Resource Economists (AERE), a founding editor of the Review of Environmental Economics and Policy, and a coordinating lead author for the Intergovernmental Panel on Climate Change (IPCC), co-recipient of the Nobel Peace Prize. He is also a University Fellow at Resources for the Future and a Research Associate of the National Bureau of Economic Research.

Prof. Kolstad's research focus has been on environmental and energy economics, particularly coal markets and environmental regulation. In recent years, most work has been on the economics of climate change. He has published widely on these topics in refereed journals and books. He has also authored a leading advanced textbook (Environmental Economics), which has been translated into multiple languages; the 3rd edition was published by Oxford University Press in 2026.

Prof. Kolstad's interest in economics began when he taught secondary school in rural West Africa, under the auspices of the US Peace Corps.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Policy Institutes

ADMINISTRATIVE APPOINTMENTS

- Faculty Co-Director, Bits and Watts Initiative, Precourt institute, Stanford, (2017-2021)
- Co-Director, University of California Center for Energy and Environmental Economics (UCE3), (2009-2012)
- Chairperson, Department of Economics, University of California at Santa Barbara, (2008-2011)

HONORS AND AWARDS

- Fellow, Association of Environmental and Resource Economists (AERE) (2009-present)
- Fellow, Munich Society for the Promotion of Economic Research (CES) (2009-present)
- Research Associate, National Bureau of Economic Research NBER) (2007-present)
- University Fellow, Resources for the Future (2002-present)
- President, Association of Environmental and Resource Economists (AERE) (2001-2003)
- University Scholar, University of Illinois (1990)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scoping Author, Intergovernmental Panel on Climate Change, AR6 (2017 - 2017)
- Member, California Council on Science and Technology (2016 - 2020)
- Coordinating Lead Author, Intergovernmental Panel on Climate Change, AR5 (2008 - 2014)
- Lead Author, Intergovernmental Panel on Climate Change, AR4 (2004 - 2007)
- Member, Committee to Review President's Climate Change Research Initiative, US National Research Council (2002 - 2005)
- President, Association of Environmental and Resource Economists (2001 - 2003)
- Member, Advisory Council on Clean Air Act Compliance Analysis, US EPA (1999 - 2004)
- Member, Science Advisory Board, US EPA (1992 - 1998)
- Member, Energy Engineering Board, US National Research Council (1990 - 1994)

PROFESSIONAL EDUCATION

- PhD, Stanford University , Economics & Operations Research (EES & Economics) (1982)
- MA, University of Rochester , Math (1973)
- B.S. (High Honors), Bates College , Math and Physics (1969)

LINKS

- Environmental Economics Textbook (2026 edition): https://office365stanford-my.sharepoint.com/:b:/g/personal/ckolstad_stanford_edu/IQAlFdm2KlaGRoneowj_rw_mAZo2PTcmKYSbh-dR9c7otVo?e=eeoE5A
- Instructor's Resources, Environmental Economics: [https://learninglink.oup.com/access/kolstad-netusil3e_!!G92We9drHetJ8EofZw!YqyrCeMmR5XUDiwwOVhUt1S1L0x-Sfxm18To6SCQ3jufOEmSn2_j-GpBi1fgVNmOwqka0WFauIMELoatAR9S\\$](https://learninglink.oup.com/access/kolstad-netusil3e_!!G92We9drHetJ8EofZw!YqyrCeMmR5XUDiwwOVhUt1S1L0x-Sfxm18To6SCQ3jufOEmSn2_j-GpBi1fgVNmOwqka0WFauIMELoatAR9S$)
- IPCC AR5, WGIII, Chapter 3: https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter3.pdf
- Kolstad Hi Res Photo @ SEEPAC event: <https://web.stanford.edu/~ckolstad/HmPg/Kolstad.SEEPACReception.2015.jpg>
- Kolstad Hi Res Photo @ Berkeley: <https://web.stanford.edu/~ckolstad/HmPg/Kolstad.Berkeley.jpg>
- Kolstad Hi Res Photo @ UCLA: <https://web.stanford.edu/~ckolstad/HmPg/Kolstad.UCLA.jpg>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interests are broadly in environmental economics and related areas of industrial organization and public economics. My policy-related focus within these fields is climate change and energy markets.

I currently have several projects related to uncertainty and learning in strategic contexts regarding the provision of public goods. For the most part, the application is international environmental agreements. This work is primarily theoretical, though with some empirical and experimental work to validate

and illuminate theory. I also have research interests in energy economics (particularly regulation) and other dimensions of the economics of climate change.

As an emeritus faculty member, I do work with new PhD students who wish to study with me. Typically, my students train to be environmental or resource economists, which means they receive strong training in economics. Strong preparation in math is essential.

Teaching

COURSES

2022-23

- Environmental Economics and Policy: OSPOXFRD 49 (Win)

Publications

PUBLICATIONS

- **Environmental Economics, 3rd Edition**
Kolstad, C. D., Netusil, N. R.
Oxford University Press.2026
- **Cedric Klapisch (Director): Back to Burgundy (Ce qui nous lie) (Book Review) JOURNAL OF WINE ECONOMICS**
Book Review Authored by: Kolstad, C. D.
2023
- **The economics of saignee in winemaking JOURNAL OF WINE ECONOMICS**
Costello, C., Deschenes, O., Kolstad, C., Plantinga, A. J., Thomas, T.
2023
- **Estimating the Economic Impacts of Climate Change Using Weather Observations REVIEW OF ENVIRONMENTAL ECONOMICS AND POLICY**
Kolstad, C. D., Moore, F. C.
2020; 14 (1): 1–24
- **WILLIAM NORDHAUS: A PIONEER CLIMATE CHANGE ECONOMICS**
Kolstad, C. D.
2020; 11 (4)
- **Reforming the U.S. coal leasing program. Science**
Gillingham, K., Bushnell, J., Fowlie, M., Greenstone, M., Kolstad, C., Krupnick, A., Morris, A., Schmalensee, R., Stock, J.
2016; 354 (6316): 1096-1098
- **CLIMATE ECONOMICS. Opportunities for advances in climate change economics. Science**
Burke, M., Craxton, M., Kolstad, C. D., ONDA, C., Allcott, H., Baker, E., Barrage, L., Carson, R., Gillingham, K., Graff-Zivin, J., Greenstone, M., Hallegatte, S., Hanemann, et al
2016; 352 (6283): 292-293
- **CLIMATE CHANGE. The IPCC at a crossroads: Opportunities for reform. Science**
Carraro, C., Edenhofer, O., Flachsland, C., Kolstad, C., Stavins, R., Stowe, R.
2015; 350 (6256): 34-35
- **Environmental economics. An economic perspective on the EPA's Clean Power Plan. Science**
Fowlie, M., Goulder, L., Kotchen, M., Borenstein, S., Bushnell, J., Davis, L., Greenstone, M., Kolstad, C., Knittel, C., Stavins, R., Wara, M., Wolak, F., Wolfram, et al
2014; 346 (6211): 815-816
- **Social Economic and Ethical Concepts and Methods Climate Change 2014: Mitigation of Climate Change**
Kolstad, C. D., et al

Cambridge University Press.2014

- **Bridging Reality and the Theory of International Environmental Agreements** *Climate Change and Common Sense: Essays in Honour of Tom Schelling*
Kolstad, C. D.,
Oxford University Press.2012: 61–74
- **Regulatory Choice with Pollution and Innovation** *The Design and Implementation of US Climate Policy*
Kolstad, C.
University of Chicago Press.2012: 65–74
- **Economic impacts of climate change on California agriculture** *CLIMATIC CHANGE*
Deschenes, O., Kolstad, C.
2011; 109: 365-386
- **Uncertainty, Learning and Heterogeneity in International Environmental Agreements** *ENVIRONMENTAL & RESOURCE ECONOMICS*
Kolstad, C. D., Ulph, A.
2011; 50 (3): 389-403
- **Intermediate Environmental Economics**
Kolstad, C. D.
Oxford University Press.2011
- **Who Pays a Price on Carbon?** *ENVIRONMENTAL & RESOURCE ECONOMICS*
Grainger, C. A., Kolstad, C. D.
2010; 46 (3): 359-376
- **Environmental Economics**
Kolstad, C. D.
Oxford University Press.2010
- **Distribution and Climate Change Policies** *Climate Change Policies: Global Challenges and Future Prospects*
Kolstad, C. D., Grainger, C.
2010
- **Equity, Heterogeneity and International Environmental Agreements** *B E JOURNAL OF ECONOMIC ANALYSIS & POLICY*
Kolstad, C. D.
2010; 10 (2)
- **Is a Cap-and-Trade System a Disguised Tax?** *Harvard College Economics Review*
Kolstad, C. D.
2009; 3 (2): 22-23
- **Restructuring Federal Climate Research to Meet the Challenges of Climate Change**
Kolstad, C. D., Ramanathan, V., et al
The National Academies Press.2009
- **Less Traffic, A Better Life** *Sacramento Bee*
Kolstad, C. D.
2009
- **A Statement on the Appropriate Role for Research and Development in Climate Policy** *The Economists' Voice*
Arrow, K., Cohen, L. R., David, P. A., Hahn, R. W., Kolstad, C. D., Lane, L. L., Montgomery, W. D., Nelson, R. R., Noll, R. G., Smith, A. E.
2009; 6 (1)
- **When Carbon is Priced, Who Ultimately Pays?** *VOX*
Kolstad, C. D.
2009
- **Learning and international environmental agreements** *CLIMATIC CHANGE*
Kolstad, C., Ulph, A.

2008; 89 (1-2): 125-141

- **Beyond the Market Advisory Committee: Proceedings from a Workshop held at Stanford University**
Kolstad, C. D., Ahoobim, O., Burger, N., Crainger, C., MacRae, S.
2008
- **Researching preferences, valuation and hypothetical bias** *ENVIRONMENTAL & RESOURCE ECONOMICS*
Guzman, R. M., Kolstad, C. D.
2007; 37 (3): 465-487
- **Systematic uncertainty in self-enforcing international environmental agreements** *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*
Kolstad, C. D.
2007; 53 (1): 68-79
- **Prescriptive Environmental Regulations versus Market - Based Incentives** *Moving to Markets in Environmental Regulation*
Kolstad, C. D., Freeman, J.
Oxford University Press.2007
- **Evaluating Progress o f the U.S. Climate Change Science Program: Methods and Preliminary Results**
Kolstad, C. D., Ramanathan, V., et al
National Academies Press.2007
- **Learning and climate change** *CLIMATE POLICY*
O'Neill, B. C., Crutzen, P., Gruebler, A., Duong, M. H., Keller, K., Kolstad, C., Koomey, J., Lange, A., Obersteiner, M., Oppenheimer, M., Pepper, W., Sanderson, W., Schlesinger, et al
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- **Interpreting Estimated Environmental Kuznets Curves for Greenhouse Gases** *The Journal of Environment & Development*
Kolstad, C. D.
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- **Adjustment costs from environmental change** *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*
Kelly, D. L., Kolstad, C. D., Mitchell, G. T.
2005; 50 (3): 468-495
- **Piercing the veil of uncertainty in transboundary pollution agreements** *International Conference on Risk and Uncertainty in Environmental and Resource Economics*
Kolstad, C. D.
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- **The Simple Analytics of Greenhouse Gas Intensity Reduction Targets** *Energy Policy*
Kolstad, C. D.
2005; 33: 2231-2236
- **The Economics of Climate Policy** *Handbook of Environmental Economics*
Kolstad, C. D., Toman, M.
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- **Climate Change Policy Viewed from the U.S. A. and the Role of Intensity Targets** *Emissions Trading for Climate Policy : US and European Perspectives*
Kolstad, C. D.
Cambridge University Press.2005: 96-113
- **Environmental Protection in a Knowledge - Based Economy** *Proccedings , Delhi Sustainable Development Summit,*
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- **Do lax environmental regulations attract foreign investment?** *ENVIRONMENTAL & RESOURCE ECONOMICS*
Xing, Y. Q., Kolstad, C. D.
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2001; 29 (3): 217-225
- **Comment on 'Environmental Policy and Firm Behavior: Abatement Investment and Location Decisions under Uncertainty and Irreversibility' by Anastasios Xepapadeas** *Behavioral and Distributional Effects of Environmental Policy*
Kolstad, C. D.
University of Chicago Press for National Bureau of Economic Research.2001: 306-307
- **COP6: Observations of an Interested Bystander** *Energy Policies and Markets: New Trends or Old Cycles?*
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- **Solving Infinite Horizon Growth Models with an Environmental Sector** *Computational Economics*
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- **Valuing beach recreation lost in environmental accidents** *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE*
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2000; 39 (3): 282-305
- **Spatial Environmental and Resource Economics: Selected Essays of Charles D. Kolstad**
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Cambridge University Press.2000
- **Information and the divergence between willingness to accept and willingness to pay** *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*
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- **Bayesian learning, growth, and pollution** *JOURNAL OF ECONOMIC DYNAMICS & CONTROL*
Kelly, D. L., Kolstad, C. D.
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- **Integrated Assessment Models for Climate Change Control** *International Yearbook of Environmental and Resource Economics 1999/2000: A Survey of Current Issues*
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- **Learning and stock effects in environmental regulation: The case of greenhouse gas emissions** *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*
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- **Fundamental irreversibilities in stock externalities** *JOURNAL OF PUBLIC ECONOMICS*
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- **Environment and Trade: A Review of Theory and Issues** *University of California, Santa Barbara, Department of Economics Working Paper 02-96*
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1996
- **The Implications of Learning About Uncertainty for United States/European Greenhouse Gas Policy** *Environmental Policy with Political and Economic Integration*
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Edward Elgar,.1996
- **The Climate Change Footprint: Will We See It Before It Is Upon Us?** *IISA*
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1996
- **FOREIGN DIRECT-INVESTMENT, EXCHANGE-RATE VARIABILITY AND DEMAND UNCERTAINTY** *INTERNATIONAL ECONOMIC REVIEW*
Goldberg, L. S., Kolstad, C. D.
1995; 36 (4): 855-873
- **Normas Anticontaminación: Enfoques Pasados e Innovaciones," [Regulating Pollution: Past Approaches and Innovations]** *Economía del Medio Ambiente en América Latina [The Economics of Ambient Environment in Latin America]*
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- **IS TECHNICAL CHANGE EMBODIED IN THE CAPITAL STOCK OR NEW INVESTMENT** *JOURNAL OF PRODUCTIVITY ANALYSIS*
Lee, J. K., Kolstad, C. D.
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- **HOTELLING RENTS IN HOTELLING SPACE - PRODUCT DIFFERENTIATION IN EXHAUSTIBLE RESOURCE MARKETS** *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*
Kolstad, C. D.
1994; 26 (2): 163-180
- **Comment on 'Energy Demand and Supply in the Developing World 1990 - 2020,' by Churchill** *Proceedings 1993 World Bank Annual Conference on Development Economics*
Kolstad, C. D.
1994
- **The Timing of CO2 Control in the Face of Uncertainty and Learning** *International Environmental Economics*
Kolstad, C. D.
Elsevier.1994: 75–96
- **George Bush vs. Al Gore: Irreversibilities in Greenhouse Gas Accumulation and Emission Control Investment** *Energy Policy ,*
Kolstad, C. D.
1994; 22: 771-778
- **Mitigating Climate Change Impacts: The Conflicting Effects of Irreversibilities in CO2 Accumulation and Emission Control Investment** *IISA*
Kolstad, C. D.
1994

- **THE SPECIFICATION OF DYNAMICS IN COST FUNCTION AND FACTOR DEMAND ESTIMATION** *REVIEW OF ECONOMICS AND STATISTICS*
Kolstad, C. D., Lee, J. K.
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- **Environmental Protection and Economic Reform in Russia** *EPAT/MUCIA Policy Brief*
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1993
- **The Law and Economics of Hazardous Materials Transportation: Regulating Harm by Administrative Agency and by Tort Liability** *Transportation of Hazardous Materials: Issues in Law, Social Science and Engineering*
Kolstad, C. D., Ulen, T.
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- **Measuring the Energy Efficiency and Productivity Impacts of Embodied Technical Change** *Energy Journal*
Kolstad, C. D., Berndt, E., Lee, J.
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- **Looking vs. Leaping: The Timing of CO2 Control in the Face of Uncertainty and Learning** *IASA*
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- **Natural Resource Use and the Environment** *Handbook of Natural Resources and Energy Economics*
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- **Buying Energy and Non-Fuel Minerals: Final, Derived and Speculative Demand** *Handbook of Natural Resources and Energy Economics* ,
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- **Efficiency and the Non-enforcement of Penalties** *Hoover Institution Working Paper E-92-2*
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- **From Stalin to Yeltsin: Perestroika in US Environmental Policy**
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1992
- **COMPUTING COURNOT-NASH EQUILIBRIA** *OPERATIONS RESEARCH*
Kolstad, C. D., Mathiesen, L.
1991; 39 (5): 739-748
- **A MODEL OF HOMOGENEOUS INPUT DEMAND UNDER PRICE UNCERTAINTY** *AMERICAN ECONOMIC REVIEW*
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- **Price Formation in International Coal Trade** *Proceedings Coaltrans 91*
Kolstad, C. D.
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- **Book Review: Recent Modelling Approaches in Applied Energy Economics** *Energy Journal*
Kolstad, C. D.
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- **A Framework for Exploring Cost Effective CO2 Control Paths: Discussant Comments** *Proceedings of the Workshop on Economic/Energy/Environmental Modeling for Climate Policy Analysis*
Kolstad, C. D.
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- **Measuring the Demand for Environmental Quality**
Braden, J. B., Kolstad, C. D.,

Emerald Group Publishing Limited;. 1991

- **Environmental Demand Theory** *Measuring the Demand for Environmental Quality*
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Kolstad, C. D., Lasdon, L. S.
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- **Ex Post Liability for Harm vs. Ex Ante Safety Regulation: Substitutes or Complements** *American Economic Review*
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Kolstad, C. D.
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- **Measuring Relative Market Power in the Western US Coal Market Using Shapley Values** *Resources and Energy*
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- **A Review of the Literature on Bi-level Mathematical Programming** *Los Alamos National Laboratory Report LA-10284-MS*
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