Stanford



Charles Kolstad

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

Policy Institutes

1 Curriculum Vitae available Online

Bio

BIO

Prof. Charles D. Kolstad, is an energy and environmental economist with a focus on energy markets, regulation, and climate change (mitigation, adaptation and impacts). (Note: Environmental Economics is the branch of economics concerned with the intersection between economic activity and the environment, broadly defined.) He has published extensively in environmental and resources economics over the past four decades, including work in understanding uncertainty, randomness and learning in climate decisions and regulation, estimating damage from climate change, coal and electricity markets, international trade and pollution havens, and tax competition. He has also authored a leading advanced economics textbook (Environmental Economics), in use worldwide and translated into Spanish, Japanese and Chinese.

Prof. Kolstad has been a Lead Author and a Convening Lead Author for the IPCC (co-recipient of the 2007 Nobel Peace Prize), is a founding editor of the journal Review of Environmental Economics & Policy and has served on many advisory boards. He is a former president of the Association of Environmental and Resource Economists (AERE).

Prof. Kolstad joined the faculty of Stanford in 2012, following a career at the University of California in Santa Barbara, and the University of Illinois in Urbana-Champaign. At Stanford, he has been affiliated with the Department of Economics, the Stanford Institute for Economic Policy Research (SIEPR) and the Doerr School of Sustainability (Precourt and Woods Institutes).

Prof. Kolstad is currently Senior Fellow Emeritus at Stanford University and Distinguished Professor Emeritus at the University of California in Santa Barbara. He continues to write, speak, teach and conduct research.

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)
- Fellow, Munich Society for the Promotion of Economic Research (CES) (2009)

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

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

• President, Association of Environmental and Resource Economists (2001 - 2003)

PROFESSIONAL EDUCATION

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

LINKS

- Kolstad Hi Res Photo @ Berkeley: https://web.stanford.edu/~ckolstad/HmPg/Kolstad.Berkeley.jpg
- Textbook Info: https://web.stanford.edu/~ckolstad/HmPg/Textbooks.pdf
- Info for Prospective PhD Students: https://web.stanford.edu/~ckolstad/HmPg/InfoPhD.htm
- 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 @ UCLA: https://web.stanford.edu/~ckolstad/HmPg/Kolstad.UCLA.jpg
- Info for Prospective Postdocs: https://web.stanford.edu/~ckolstad/HmPg/Postdocs.pdf

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

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.

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Gillingham, K., Bushnell, J., Fowlie, M., Greenstone, M., Kolstad, C., Krupnick, A., Morris, A., Schmalensee, R., Stock, J.

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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

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• CLIMATE CHANGE. The IPCC at a crossroads: Opportunities for reform. Science

Carraro, C., Edenhofer, O., Flachsland, C., Kolstad, C., Stavins, R., Stowe, R.

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• 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,

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• Bridging Reality and the Theory of International Environmental Agreements Climate Change and Common Sense: Essays in Honour of Tom Schelling

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Oxford University Press.2012: 61-74

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University of Chicago Press.2012: 65-74

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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.

201

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)

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Kolstad, C. D., Ahoobim, O., Burger, N., Crainger, C., MacRae, S.

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• Researching preferences, valuation and hypothetical bias ENVIRONMENTAL & RESOURCE ECONOMICS

Guzman, R. M., Kolstad, C. D.

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Systematic uncertainty in self-enforcing international environmental agreements JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT

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Kolstad, C. D., Freeman, J.

Oxford University Press.2007

• Evaluating Progress of the U.S. Climate Change Science Program: Methods and Preliminary Results

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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

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• Piercing the veil of uncertainty in transboundary pollution agreements International Conference on Risk and Uncertainty in Environmental and Resource

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Cambridge University Press.2005: 96–113

• Environmental Protection in a Knowledge - Based Economy Proceedings, Delhi Sustainable Development Summit,

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• Do lax environmental regulations attract foreign investment? ENVIRONMENTAL & RESOURCE 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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• A MODEL OF HOMOGENEOUS INPUT DEMAND UNDER PRICE UNCERTAINTY AMERICAN ECONOMIC REVIEW

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• DERIVATIVE EVALUATION AND COMPUTATIONAL EXPERIENCE WITH LARGE BILEVEL MATHEMATICAL PROGRAMS JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS

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Computing Equilibria in Imperfectly Competitive Commodity Markets International Commodity Market Models. Advances in Methodology and Applications
Kolstad, C. D., Mathiesen, L.

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• Ex Post Liability for Harm vs. Ex Ante Safety Regulation: Substitutes or Complements American Economic Review

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AND ENERGY

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• Measuring Relative Market Power in the Western US Coal Market Using Shapley Values Resources and Energy

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• STRATEGY AND MARKET-STRUCTURE IN WESTERN COAL TAXATION REVIEW OF ECONOMICS AND STATISTICS

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