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Google Scholar: http://scholar.google.com.au/citations?user=RdSI3fQAAAAJ

Researcher ID: http://www.researcherid.com/rid/B-4700-2009

IDEAS: http://ideas.repec.org/e/pst75.html

Employment

- 2011- Professor, Arndt-Corden Department of Economics, Crawford School of Public Policy, The Australian National University.
- 2011 Associate Professor, Crawford School of Economics and Government, The Australian National University.
- 2009-2010 Fellow, Arndt-Corden Division of Economics, Crawford School of Economics and Government, The Australian National University.
- 2002-2007 Associate Professor, Department of Economics, Rensselaer Polytechnic Institute.
- 1996-2002 Research Fellow, Centre for Resource and Environmental Studies, The Australian National University.
- 1995-1996 Visiting Assistant Professor, Center for Energy and Environmental Studies and Department of Geography, Boston University.
- 1993-1994 Research Fellow, Department of Environmental Economics and Environmental Management, University of York.
- 1990 Research Analyst, DP3 Ltd, London.

Qualifications

- 1990-94 Boston University, Ph.D. Geography.
- 1988-89 London School of Economics, M.Sc. Geography.
- 1985-88 Hebrew University of Jerusalem, B.A. Geography and Economics.

Awards and Honours

- Francqui Chair for Academic Year 2020-21. Francqui Foundation and Hasselt University, Belgium.
- Elected Fellow of the Academy of the Social Sciences in Australia.

Editing and Editorial and Advisory Boards

- Editor in chief, Australian Journal of Agricultural and Resource Economics, 2023-.
- Editorial board, Journal of Sustainability, 2025-.
- Academic editor, *PeerJ*, 2017-2023.
- Editorial advisory board, *Open Economics*, 2016-.
- Editorial advisory board, *Energy Journal*, 2018-.
- Editorial advisory board, Región Científica, 2023-.
- Associate editor, *Ecological Economics*, 2002-2018. Editorial board, 2019-2022.
- Editorial advisory panel, *Nature Energy*, 2015-2021.
- Editorial board, Asia and the Pacific Policy Studies, 2012-2020.
- Editorial board, *Energies*, 2019-2020.

- Editor for directly submitted paper, *Proceedings of the National Academy of Sciences*, January 2018.
- Advisory Panel for the Commission for Environmental Cooperation 2005 Symposium.
- Scientific Advisory Committee of ISEE 2004, 2010, and 2014 conferences.
- Initiated and managed several working paper series.

Research Funding

- Department for International Development, UK. "Energy for Economic Growth." Part of a consortium led by University of California Berkeley (Catherine Wolfram) and Oxford Policy Management. Leader for Theme 1 in first year of the project: "The linkages between electricity supply and economic growth". First year ANU funding £30,000. Prepared policy brief with Debasish Das on prepaid metering (2020: £5,000).
- 2016-18 Australian Research Council, Discovery Project (DP160100756). "Energy Efficiency Innovation, Diffusion and the Rebound Effect." Partner investigators: Stephan Bruns UniKassel; Alessio Moneta, Scuola Superior Sant'Anna. \$A273,000.
- 2015-18 Handelsbanken Research Foundation. "Energy Use and Economic Growth: a Long-run European Study (1870-2013)". Co-investigators: Astrid Kander, Lund U., Sophia Henriques, U. Southern Denmark, Paul Sharp, U. Southern Denmark. SEK2 million.
- 2012-14 Australian Research Council, Discovery Project (DP120101088). "Energy Transitions: Past Present and Future". Co-CI's: Chunbo Ma, UWA; Jack Pezzey, ANU; Partner investigator: Astrid Kander, Lund U. \$A240,000.
- 2009-10 Modelling the Global Diffusion of Energy Efficiency and Low-Carbon Technology. Department of Environment and Water Resources under the Commonwealth Environment Research Facility. \$A110,000. Period funded: February 2009 February 2010.
- 2004-06 The Effect of NAFTA on Energy and Environmental Efficiency in Mexico,
 Commission for Environmental Cooperation, Third North American Symposium
 on Assessing the Environmental Effects of Trade, US\$12,000. Period funded:
 November 2004 February 2006.
- 2004 Economic Development and Emissions of Radiatively Important Pollution, United States Environmental Protection Agency, Clean Air Markets Division, US\$25,609. Period funded: 1 March 2004 – 31 August 2004.

Publications

Journal Articles

Timilsina G., D. I. Stern, and D. K. Das (2024) Physical infrastructure and economic growth, *Applied Economics* 56(18), 2142-2157.

Ahmed K. and D. I. Stern (2023) China's carbon emissions trend after the pandemic, *Environmental Challenges* 13, 100787.

Jiang X. and D. I. Stern (2023) Asymmetric business cycle changes in U.S. carbon emissions and oil market shocks, *Climatic Change* 176, 147.

- Kubiszewski I., L. Concollato, R. Costanza, and D. I. Stern (2023) Changes in authorship, networks, and research topics in ecosystem services, *Ecosystem Services* 101501.
- Berner A., S. Bruns, A. Moneta, and D. I. Stern (2022) Do energy efficiency improvements reduce energy use? Empirical evidence on the economy-wide rebound effect in Europe and the United States, *Energy Economics* 110, 105939.
- Jafari M., D. I. Stern, and S. B. Bruns (2022) How large is the economy-wide rebound effect in middle income countries? Evidence from Iran, *Ecological Economics* 193, 107325.
- Stern D. I., J. C. V. Pezzey, and Y. Lu (2021) Directed technical change and the British Industrial Revolution, *Journal of the Association of Environmental and Resource Economists* 8(6), 1079-1114.
- Saunders H., J. Roy, I. Azevedo, D. Chakravarty, S. Dasgupta, S. de la rue du Can, A. Druckman, R. Fouquet, M. Grubb, B.-Q. Lin, R. Lowe, R. Madlener, D. McCoy, L. Mundaca, T. Oreszczyn, S. Sorrell, D. I. Stern, K. Tanaka, and T. Wei (2021) Energy efficiency: What has research delivered in the last 40 years? *Annual Review of Environment and Resources* 46, 135-165.
- Dressel B. and D. I. Stern (2021) Research at public policy schools in the Asia-Pacific region ranked, *Asia and the Pacific Policy Studies* 8(1), 151-166.
- Stern D. I. and R. S. J. Tol (2021) Depth and breadth relevance in citation metrics, *Economic Inquiry* 59(3), 961-977.
- Bruns S. B., A. Moneta, and D. I. Stern (2021) Estimating the economy-wide rebound effect using empirically identified structural vector autoregressions, *Energy Economics* 97, 105158.
- Leslie G. W., D. I. Stern, A. Shanker, and M. T. Hogan (2020) Designing electricity markets for high penetrations of zero or low marginal cost intermittent energy sources, *Electricity Journal* 33, 106847.
- Stern D. I. (2020) How large is the economy-wide rebound effect? *Energy Policy* 147, 111870.
- Nobel A., S. Lizin, R. Brouwer, S. B. Bruns, D. I. Stern and R. Malina (2020) Are biodiversity losses valued differently when they are caused by human activities? A meta-analysis of the non-use valuation literature, *Environmental Research Letters* 15, 073003.
- Csereklyei Z. and D. I. Stern (2020) Flying more efficiently: Joint impacts of fuel prices, capital costs and fleet size on airline fleet fuel economy, *Ecological Economics* 175, 106714.
- Bruns S. B., Z. Csereklyei, and D. I. Stern (2020) A multicointegration model of global climate change, *Journal of Econometrics* 214(1), 175-197.
- Bruns S. B., J. König, and D. I. Stern (2019) Replication and robustness analysis of 'Energy and economic growth in the USA: a multivariate approach', *Energy Economics* 82, 100-113.
- Bruns S. B. and D. I. Stern (2019) Lag length selection and p-hacking in Granger-causality testing: Prevalence and performance of meta-regression models, *Empirical Economics* 56(3), 797-830.

- Burke P. J., D. I. Stern, and S. B. Bruns (2018) The impact of electricity on economic development: a macroeconomic perspective, *International Review of Environmental and Resource Economics* 12(1), 85-127.
- Csereklyei Z. and D. I. Stern (2018) Technology choices in the U.S. electricity industry before and after market restructuring, *Energy Journal* 39(5), 157-182.
- Stern D. I., R. Gerlagh, and P. J. Burke (2017) Modeling the emissions-income relationship using long-run growth rates, *Environment and Development Economics* 22(6), 699-724.
- Stern D. I. (2017) How accurate are energy intensity projections? *Climatic Change* 143, 537-545.
- Zhang W., D. I. Stern, X. Liu, W. Cai, and C. Wang (2017) An analysis of the costs of energy saving and CO₂ mitigation in rural households in China, *Journal of Cleaner Production* 165, 734-745.
- Stern D. I. and J. van Dijk (2017) Economic growth and global particulate pollution concentrations, *Climatic Change* 142, 391-406.
- Stern D. I. (2017) The environmental Kuznets curve after 25 years, *Journal of Bioeconomics* 19, 7-28.
- Ma C. and D. I. Stern (2016) Long-run estimates of interfuel and interfactor elasticities, *Resource and Energy Economics* 46, 114-130.
- Bruns S. B. and D. I. Stern (2016) Research assessment using early citation information, *Scientometrics* 108, 917-935.
- Stern D. I. and D. Zha (2016) Economic growth and particulate pollution concentrations in China, *Environmental Economics and Policy Studies* 18, 327-338.
- Lu Y. and D. I. Stern (2016) Substitutability and the cost of climate mitigation policy, *Environmental and Resource Economics* 64, 81-107.
- Sanchez L. F. and D. I. Stern (2016) Drivers of industrial and non-industrial greenhouse gas emissions, *Ecological Economics* 124, 17-24.
- Costanza R., R. B. Howarth, I. Kubiszewski, S. Liu, C. Ma, G. Plumecocq, and D. I. Stern (2016) Influential publications in ecological economics revisited, *Ecological Economics* 123, 68-76.
- Csereklyei Z., M. d. M. Rubio Varas, and D. I. Stern (2016) Energy and economic growth: The stylized facts, *Energy Journal* 37(2), 223-255.
- Halkos G. E., D. I. Stern, and N. G. Tzeremes (2016) Population, economic growth and regional environmental inefficiency: Evidence from U.S. states, *Journal of Cleaner Production* 112(5), 4288-4295.
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- Bruns S. B., C. Gross, and D. I. Stern (2014) Is there really Granger causality between energy use and output? *Energy Journal* 35(4), 101-134.
- Stern D. I. and R. K. Kaufmann (2014) Anthropogenic and natural causes of climate change, *Climatic Change* 122, 257-269.
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- Stern D. I., J. C. V. Pezzey, and N. R. Lambie (2012) Where in the world is it cheapest to cut carbon emissions? *Australian Journal of Agricultural and Resource Economics* 56(3), 315-331.
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- Ma C. and D. I. Stern (2008) China's changing energy intensity trend: a decomposition analysis, *Energy Economics* 30(3), 1037-1053.
- Stern D. I. (2007) The effect of NAFTA on energy and environmental efficiency in Mexico, *Policy Studies Journal* 35(2), 291-322.
- Stern D. I. (2006) An atmosphere-ocean multicointegration model of global climate change, *Computational Statistics and Data Analysis* 51(2), 1330-1346.
- Ma C. and D. I. Stern (2006) Environmental and ecological economics: a citation analysis, *Ecological Economics* 58(3), 491-506.
- Stern D. I. (2006) Reversal in the trend of global anthropogenic sulfur emissions, *Global Environmental Change* 16(2), 207-220.
- Stern D. I. (2005) Beyond the environmental Kuznets curve: Diffusion of sulfur-emissions-abating technology, *Journal of Environment and Development* 14(1), 101-124.
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- Hay S. I., D. J. Rogers, S. E. Randolph, D. I. Stern, J. Cox, G. D. Shanks, and R. W. Snow (2002) Hot topic or hot air? Climate change and malaria resurgence in East African highlands, *Trends in Parasitology* 18(12), 530-534.
- Stern D. I. (2002) Explaining changes in global sulfur emissions: an econometric decomposition approach, *Ecological Economics* 42, 201-220.
- Kaufmann R. K. and D. I. Stern (2002) Cointegration analysis of hemispheric temperature relations, *Journal of Geophysical Research* 107(D2), Article No. 4012.
- Hay S. I., J. Cox, D. J. Rogers, S. E. Randolph, D. I. Stern, G. D. Shanks, M. F. Myers, and R. W. Snow (2002). East African highland malaria resurgence independent of climate change, *Directions in Science* 1, 82-85.
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- W. Snow (2002) Climate change and the resurgence of malaria in the East African highlands, *Nature* 415(6874), 905-909.
- Stern D. I. and M. S. Common (2001) Is there an environmental Kuznets curve for sulfur? *Journal of Environmental Economics and Management* 41, 162-178.
- Stern D. I. and R. K. Kaufmann (2000) Detecting a global warming signal in hemispheric temperature series: a structural time series analysis, *Climatic Change* 47, 411-438.
- Perrings C. A. and D. I. Stern (2000) Modelling loss of resilience in agroecosystems: rangelands in Botswana, *Environmental and Resource Economics* 16, 185-210.
- Stern D. I. (2000) A multivariate cointegration analysis of the role of energy in the U.S. macroeconomy, *Energy Economics* 22, 267-283.
- Cleveland C. J., R. K. Kaufmann, and D. I. Stern (2000) Aggregation and the role of energy in the economy, *Ecological Economics* 32, 301-318.
- Stern D. I. (2000) Applying recent developments in time series econometrics to the spatial domain, *Professional Geographer* 52, 37-49.
- Stern D. I. (1999) Is energy cost an accurate indicator of natural resource quality? *Ecological Economics* 31, 381-394.
- Stern D. I. (1999) Use value, exchange value, and resource scarcity, *Energy Policy* 27, 469-476.
- Stern D. I. and R. K. Kaufmann (1999) Econometric analysis of global climate change, *Environmental Modelling and Software* 14, 597-605.
- Stern D. I. (1998) Progress on the environmental Kuznets curve? *Environment and Development Economics* 3, 173-196.
- Stern D. I. (1997) Limits to substitution and irreversibility in production and consumption: a neoclassical interpretation of ecological economics, *Ecological Economics* 21, 197-215.
- Kaufmann R. K. and D. I. Stern (1997) Evidence for human influence on climate from hemispheric temperature relations, *Nature* 388, 39-44.
- Stern D. I. (1997) The capital theory approach to sustainability: a critical appraisal, *Journal of Economic Issues* 31, 145-173.
- Stern D. I., M. S. Common, and E. B. Barbier (1996) Economic growth and environmental degradation: the environmental Kuznets curve and sustainable development, *World Development* 24, 1151-1160.
- Stern D. I. and R. K. Kaufmann (1996) Estimates of global anthropogenic methane emissions 1860-1993, *Chemosphere* 33, 159-176.
- Stern D. I. (1995) Measurement unit invariant coefficients in multiplicative-logarithmic functions, *Applied Economics* 27, 451-454.
- Stern D. I. (1995) The contribution of the mining sector to sustainability in developing countries, *Ecological Economics* 13, 53-63.
- Stern D. I. (1994) Accuracy of the translog function, Applied Economics Letters 1, 172-174.

Stern D. I. (1994) Historical path-dependence of the urban population density gradient, *The Annals of Regional Science* 28, 197-223 and 27 (1993), 259-285.

Cleveland C. J. and D. I. Stern (1993) Productive and exchange scarcity: an empirical analysis of the U.S. forest products industry, *Canadian Journal of Forest Research* 23, 1537-1549.

Stern D. I. (1993) Energy use and economic growth in the USA: a multivariate approach, *Energy Economics* 15, 137-150.

Stern D. I. (1992) Explaining UK house price inflation 1971-1989, *Applied Economics* 24, 1327-1333.

Stern D. I. (1992) Do regions exist? Implications of synergetics for regional geography, *Environment and Planning A* 24, 1431-1448.

Stern D. I. (1992) Population distribution in an ethno-ideologically divided city: the case of Jerusalem, *Urban Geography* 13, 164-186.

Stern D. I. (1990) Ethno-ideological segregation and metropolitan development, *Geoforum* 21, 397-407.

Unpublished Working Papers

Jiang X. and D. I. Stern (2024) Floods increase income per capita in developing countries, submitted to *Nature Climate Change*.

Nag S. and D. I. Stern (2023) Are the benefits of electrification realized only in the long run? Evidence from rural India, *ACDE Working Papers in Trade and Development* 2023/08.

Ahmed K. and D. I. Stern (2023) China's carbon emissions after the pandemic, *CCEP Working Paper* 2302.

Deressa T., D. I. Stern, J. Vangronsveld, J. Minx, S. Lizin, R. Malina, and S. Bruns (2023) More than half of statistically significant research findings in the environmental sciences are actually not, *EcoevoRxiv* 4966.

König J., D. I. Stern, and R. S. J. Tol (2022) Confidence intervals for recursive journal impact factors, *arXiv*:2206.00004 [econ.GN].

Shanker A., C. K. Krishnamurthy, and D I. Stern (2019) Equilibrium zero-carbon electricity market dynamics with stochastic demand and supply and storage, *Energy Change Institute Grand Challenge Position Paper*.

Shanker A. and D. I. Stern (2018) Energy intensity, growth, and technical change, *CAMA Working Papers* 46/2018.

Comments etc.

Stern D. I. (2017) Comment on Bornmann (2017): Confidence intervals for journal impact factors, *Scientometrics* 113(3), 1811-1813.

Stern D. I. (2012) Letter from the associate editor concerning the comments from Anthoff and Tol and Ackerman and Munitz, *Ecological Economics* 81, 41.

Hay S. I., G. D. Shanks, D. I. Stern, S. E. Randolph, R. W. Snow, and D. J. Rogers (2005) Climate variability and malaria epidemics in the highlands of East Africa, *Trends in*

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Book and Encyclopedia Chapters

- Stern D. I. (in press) The environmental Kuznets curve, in: M. Goldstein (ed.) *Encyclopedia* of the Anthropocene, 2nd Edition, Elsevier.
- Stern D. I. (2025) China's carbon emissions after the pandemic, in: L. Song and Y. Zhou (eds.) *The Great Energy Transformation in China*, ANU Press.
- Stern D. I. (2025) The rebound effect, in A. Menegaki (ed.) *Elgar Encyclopedia of Energy Economics*, Edward Elgar, Cheltenham.
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- Stern D. I. (2023) The environmental Kuznets curve, in E. P. Rosa and J. Ramos-Martín (eds.) *Elgar Encyclopedia of Ecological Economics*, Edward Elgar, Cheltenham.
- Stern D. I. (2020) Environmental Kuznets curve, in: J.-F. Morin and A. Orsini (eds.) *Essential Concepts of Global Environmental Governance, 2nd Edition,* Routledge, Abingdon, 109-110.
- Kander A., M. d. M. Rubio-Varas, and D. I. Stern (2020) Energy intensity: The roles of rebound, capital stocks, and trade, in: M. Ruth (ed.) *A Research Agenda for Environmental Economics*, Edward Elgar, Cheltenham, 122-142.
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- Stern D. I., F. Jotzo, and L. Dobes (2014) Introduction, in: D. I. Stern, F. Jotzo, and L. Dobes (eds.) *Climate Change and the World Economy*, Edward Elgar, Cheltenham, xiii-xlii.
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- Cleveland C. J and D. I. Stern (2001) Natural resource scarcity indicators: an ecological economic synthesis, in: C. J. Cleveland, D. I. Stern, and R. Costanza (eds.), *The Economics of Nature and the Nature of Economics*, Edward Elgar, Cheltenham, 238-261.
- Cleveland C. J. and D. I. Stern (1999) Indicators of natural resource scarcity: a review and synthesis, in: J. C. J. M. van den Bergh (ed.) *Handbook of Environmental and Resource Economics*, Edward Elgar, Cheltenham, 89-108.
- Stern D. I. and R. K. Kaufmann (1998) Estimates of Global Anthropogenic Methane Emissions: 1860-1994, *Trends Online: A Compendium of Data on Global Change*, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, TN.
- Cleveland C. J., R. K. Kaufmann, and D. I. Stern (1998) The aggregation of energy and materials in economic indicators of sustainability: thermodynamic, biophysical, and economic approaches, in S. Ulgiati (ed.) *Advances in Energy Studies*, Musis, Rome.
- Cleveland C. J. and D. I. Stern (1998) Indicators of natural resource scarcity: review, synthesis, and application to U.S. agriculture, in: J. C. J. M. van den Bergh and M. W. Hofkes (eds.) *Theory and Implementation of Economic Models for Sustainable Development*, Kluwer, Dordrecht, 113-138.

Edited Books

- Stern, D. I., F. H. Jotzo, and L. Dobes (2014) *Climate Change and the World Economy*, Edward Elgar, Cheltenham.
- Dovers S., D. I. Stern, and M. D. Young (2003) *New Dimensions in Ecological Economics: Integrative Approaches to People and Nature*, Edward Elgar, Cheltenham.
- Cleveland C. J., R. Costanza, and D. I. Stern (2001) *The Economics of Nature and the Nature of Economics*, Edward Elgar, Cheltenham.

Refereed Conference Proceedings (Contributor)

- Lu Y. and D. I. Stern (2014) Substitutability and the cost of climate mitigation policy, *Energy Procedia* 61, 1622-1625.
- Stern D. I. (2006) The effect of NAFTA on energy and environmental efficiency in Mexico, Third North American Symposium on Assessing the Environmental Effects of Trade: Proceedings, Commission for Environmental Cooperation, Montreal.
- Cleveland C. J., R. K. Kaufmann, and D. I. Stern (1998) The aggregation of energy and materials in economic indicators of sustainability: thermodynamic, biophysical, and

economic approaches, *Proceedings of the International Workshop on Advances in Energy Studies: Energy Flows in Ecology and Economy*, Porto Venere, Italy.

Stern D. I. and R. K. Kaufmann (1997) Econometric analysis of global climate change, *MODSIM 97, International Congress on Modelling and Simulation*, Modelling and Simulation Society of Australia, 1367-1372.

Edited Conference Proceedings (Editor)

Stern D. I. (2000) *ISEE 2000. People and Nature: Operationalising Ecological Economics*, Final Program of the 6th Biennial Meeting of the International Society for Ecological Economics, The Australian National University, Canberra, Australia.

Book Reviews

- Stern D. I. (2010) Book Review: T. Jackson (2009) Prosperity without Growth: Economics for a Finite Planet, *Ecological Economics* 69(5), 1190-1191.
- Stern D. I. (2007) Book Review: M. Common and S Stagl (2005) Ecological Economics: An Introduction, *Ecological Economics* 63(4), 829-830.
- Stern D. I. (2004) Book Review: J. K. Boyce (2002) The Political Economy of the Environment, *International Journal of Social Economics* 31(4): 443-445.
- Stern D. I. (2003) Book Review: M. Munasinghe, O. Sunkel, and C. de Miguel (eds.) (2001) The Sustainability of Long-term Growth: Socio-economic and Ecological Perspectives, *American Journal of Agricultural Economics* 85, 521-523.
- Stern D. I. (2001) Book Review: S. Keen (2001) Debunking Economics, *Australian Journal of Environmental Management* 8, 246-247.
- Stern D. I. (2001) Book Review: S. Keen (2001) Debunking Economics, *Ecological Economics* 39, 318-320.
- Stern D. I. (1998) Book Note: A. Tylecote and J. van der Straaten (eds.) (1997) Environment, Technology and Economic Growth: The Challenge to Sustainable Development, *Economic Journal*, 108, 1973-1974.
- Stern D. I. (1998) Book Review: N. Rakover (1993) Eykhut HaSvivah: Hebetim Mishpatiyim VeRa'ayoniyim BaMeqorot HaYehudiyim, (Environmental Quality: Legal and Ideological Aspects in the Jewish Sources), *Ecological Economics* 26, 109-111.
- Stern D. I. (1997) Book Review: J. C. J. M. Van den Bergh (1996) Ecological Economics and Sustainable Development: Theory, Methods and Applications, *Economic Journal*, 107, 1905-1907.
- Stern D. I. (1997) Book Review: A. Eberhard and C. Van Horen (1995) Poverty and Power: Energy and the South African State, *Development Bulletin (Australian Development Studies Network)* 41, 96-96.
- Stern D. I. and C. J. Cleveland (1992) Book Review: J. Rees (1990) Natural Resources: Allocation, Economics and Policy, 2nd edition, *Professional Geographer* 44, 122-123.

Republished Papers

Stern D. I. (in press) Energy use and economic growth in the USA: a multivariate approach,

- Energy Economics 15, 137-150 (1993). Reprinted in: A. Rose and S. Brown (eds.) *The Economics of Energy Security*, The International Library of Critical Writings in Economics, Edward Elgar, Cheltenham.
- Stern D. I. (in press) The rise and fall of the environmental Kuznets curve, *World Development* 32(8), 1419-1439 (2004), reprinted in: G. Atkinson and S. Fankhauser (eds.) *Sustainability Economics*, The International Library of Critical Writings in Economics, Edward Elgar, Cheltenham.
- Stern D. I. and R. K. Kaufmann (2014) Estimates of global anthropogenic methane emissions 1860-1993, *Chemosphere* 33, 159-176 (1996), reprinted in: D. I. Stern, F. Jotzo, and L. Dobes (eds.) *Climate Change and the World Economy*, Edward Elgar, Cheltenham.
- Jotzo F., P. J. Burke, P. J. Wood, A. Macintosh, and D. I. Stern (2014) Decomposing the 2010 global carbon dioxide emissions rebound, *Nature Climate Change* 2(4), 213-214 (2012), reprinted in: D. I. Stern, F. Jotzo, and L. Dobes (eds.) *Climate Change and the World Economy*, Edward Elgar, Cheltenham.
- Stern D. I. (2008) The rise and fall of the environmental Kuznets curve, *World Development* 32(8), 1419-1439 (2004), reprinted in: C. Perrings (ed.) *Ecological Economics*, Sage, Volume 4, Chapter 55, 53-80.
- Stern D. I. (2008) Limits to substitution and irreversibility in production and consumption: a neoclassical interpretation of ecological economics, *Ecological Economics* 21, 197-215 (1997), reprinted in: C. Perrings (ed.) *Ecological Economics*, Sage, Volume 2, Chapter 18, 1-27.
- Stern D. I. (2008) The rise and fall of the environmental Kuznets curve, *World Development* 32(8), 1419-1439 (2004), reprinted in: J. Martinez-Alier and I. Røpke (eds.) *Recent Developments in Ecological Economics*, Edward Elgar, Cheltenham.
- Stern D. I. (2007) Limits to substitution and irreversibility in production and consumption: a neoclassical interpretation of ecological economics, *Ecological Economics* 21, 197-215 (1997), reprinted in: J. C. J. M. van den Bergh, K. Button, and P. Nijkamp (eds.) *Environmental Planning*, Edward Elgar, Cheltenham.
- Stern D. I. (2002) Progress on the environmental Kuznets curve? *Environment and Development Economics* 3, 173-196. (1998), Reprinted in: K. Gallagher, and J. Werksman (eds.) *The Earthscan Reader on International Trade and Sustainable Development*, Earthscan, London.
- Stern D. I. (2001) Progress on the environmental Kuznets curve? Summary of article originally published in Environment and Development Economics (1998), in: J. M. Harris, T. Wise, K. Gallagher, and N. Goodwin (eds.) *Sustainable Human and Economic Development*, Island Press, Washington DC.
- Stern D. I. (1996) Energy use and economic growth in the USA: a multivariate approach, Energy Economics 15, 137-150 (1993). Reprinted in: R. Costanza, C. A. Perrings, and C. J. Cleveland (eds.) *The Development of Ecological Economics*, Edward Elgar, Cheltenham.

Reports and Policy Briefs

Das D. K. and D. I. Stern (2020) Pre-paid metering and electricity consumption in developing countries, *Energy Insight*, Applied Research Programme on Energy and Economic Growth and Oxford Policy Management.

Newspaper and Newsletter Articles

Stern D. I. and K. Ahmed (2023) China is pumping out carbon emissions as if COVID never happened. That's bad news for the climate crisis, *The Conversation* 10th July.

Stern D. I., Z. Csereklyei, M. d. M. Rubio Varas (2014) Energy and economic growth: The stylized facts, *IAEE Energy Forum*.

Stern D. I. (2014) 'Censored' IPCC summary reveals jockeying for key UN climate talks, *The Conversation* 24th April.

Jotzo F. and D. I. Stern (2014) IPCC: Emissions cuts are about ethics as well as economics, *The Conversation* 14th April.

Stern D. I. (2012) Where is it cheapest to cut carbon emissions? *The Conversation* 4th September.

Jotzo F., A. Macintosh, D. I. Stern, P. Burke, and P. Wood (2012) The emissions rebound after the GFC: Why greenhouse gases went up in 2010, *The Conversation* 16th March.

Hay S. I., J. Cox, D. J. Rogers, S. E. Randolph, D. I. Stern, G. D. Shanks, M. F. Myers, and R. W. Snow (2002) East African highland malaria resurgence independent of climate change, *EANMAT Newsletter* 5(2), May 2002.

Common M. S. and D. I. Stern (1997) Greenhouse needs carbon tax, *Australian Financial Review*, Wednesday 26 February, 1997, p19.

Administration

Director, International and Development Economics, Crawford School, 2015-2017.

Director, Research, Crawford School of Public Policy, 2012-2013.

Director, Economics Graduate Program, RPI, 2004-07.

Graduate program development officer, Department of Environmental Economics and Environmental Management, University of York, 1993-94.

Professional Societies

Member of: International Society for Ecological Economics (Treasurer of Australia-New Zealand Society for Ecological Economics, 1998 to 2002 and 2009-2011), International Association for Energy Economics.

Other Professional Activities

- 2010- Research associate, Centre for Climate Economics and Policy, Crawford School, Australian National University.
- 2009- Research associate, Climate Change and Energy Program, Centre for Applied Macroeconomic Analysis, Australian National University.
- 2010-14 Lead author, IPCC Working Group III, 5th Assessment Report, Chapter 5: "Drivers, Trends, and Mitigation".

Review editor for Chapter 2 of Working Group III contribution to IPCC 6th Assessment Report.

Selected Research Travel/Visits

- 2017 Chair of Econometrics, University of Göttingen.
- 2014 Department of Economics, University of Kassel.
- 2014 Department of Economic History, Lund University.
- 2013 Department of Economic History, Lund University.
- 2010 Institute of Economic Research, Lund University.
- 2004 Department of Environmental Science, University of Lancaster.
- 2002 Woodrow Wilson School, Princeton University.
- 2000 Center for Energy and Environmental Studies, Boston University.
- 1995 Environment Department, University of York.

Teaching

ANU 2011-

IDEC8018	Agricultural and Resource Economics – 2 nd Semester 2022-24.

- IDEC8053 Environmental Economics 1st Semester 2018 to 2021 and 2nd Semester
- IDEC8011 Masters Research Essay 1st Semester 2017-21.
- IDEC8089 Energy Economics 2nd Semester 2012-17.
- $EMDV8102 \quad Research\ Methods-1^{st}\ Semester\ 2015.\ Co-taught\ with\ Keith\ Barney.$
 - Convener for RE&D pre-sessional program, Summer 2015.
- POGO8016 The Economic Way of Thinking $I 1^{st}$ Semester 2011-14.
- CRWF8000 Governments, Markets and Global Change Each semester from 2nd Semester
 - 2011 to 1st Semester 2013. Global change lectures.

Rensselaer Polytechnic Institute 2002-2007

ECON1200, Introductory Economics; ECON2010, Managerial Economics;

ECON4230/6230, Environmental Economics and Advanced Environmental Economics;

ECON4250/6250, Ecological Economics and Advanced Ecological Economics.

Boston University 1991-1996

EE504, International Environmental and Resource Management; GG102, Introduction to Human Geography: The Cultural Landscape; GG201, World Regional Geography: The Old World; GG304, Alternative Energy and Environmental Futures; GG101, Natural Environments: The Atmosphere.

PhD Advising

PhD, ANU 2009- Present:

Primary: Alrick Campbell, Panittra Ninpanit, Debasish Kumar Das, Xueting Jiang. Panel: Paul Burke, Hyung-Sup Lee, Mohammed Shahiduzzaman (USQ), Stephan Bruns (Friedrich-Schiller-Universität Jena), Rohan Best, Anil Kavuri, Akshay Shanker, Tony Wiskich, Denny Irawan, Tong Zhang, Yating Deng, Linh Bui, Jon Jonsson (U. Iceland).

PhD, Rensselaer Polytechnic Institute 2002-2007:

Primary: Chunbo Ma. Primary advisor for part of PhD: Ran Zhang, Sung Kim. Also, a member of several other committees.

PhD, ANU 1996-2002:

Primary advisor for part of PhD: Simon Niemeyer, Rosemary James, and Ross Lambie. Panel: Muhammad Akmal, Robin Connor.

Other PhD Examination Committees:

University of Technology Sydney, IISER Pune (Masters), Aarhus University, University of Western Australia, Macquarie University (MRes), University of Queensland, University of New South Wales, University of Cape Town, Australian National University, University of Umeå, University of Sydney, and Boston University.

Refereeing

Journals: African Journal of Agricultural Research, Agricultural and Resource Economics Review, Agricultural Economics, American Journal of Agricultural Economics, American Political Science Review, Annals of Regional Science, Annals of the New York Academy of Sciences, Anthropocene Review, Applied Economics, Applied Economics Letters, Area, Asian-Pacific Economic Literature, Asia Pacific Policy Studies, Atmospheric Environment, Atmospheric Science Letters, Australian Economic, Australian Journal of Environmental Management, Australian Journal of Agricultural and Resource Economics, BMC Ecology, Bulletin of Indonesian Economic Studies, Climate Policy, Climatic Change, Climatic Change Letters, Comparative Political Studies, Computational Statistics and Data Analysis, Contemporary Economic Policy, Earth System Dynamics, East Asia Forum Quarterly, Eastern Economic Journal, Ecological Economics, Annals of the New York Academy of Sciences: Ecological Economics Reviews, Economic Analysis and Policy, Economic Geography, Economic History Review, Economic Inquiry, Economic Modelling, Economic Papers, Economic Record, Economics Bulletin, Economics of Energy & Environmental Policy, Economics: The Open Access Open Assessment Journal, Ecosystem Services, Empirical Economics, Energy Economics, Energy Journal, Energy Policy, Environmental and Ecological Statistics, Environmental and Resource Economics, Environmental Economics and Policy Studies, Environmental Management, Environmental Modelling and Software, Environmental Research Letters, Environmental Science & Technology, Environment and Development Economics, Environment and Planning A, Environment International, European Economic Review, European Review of Economic History, Geographical and Environmental Modelling, Global Environmental Change, International Economic Review, International Journal of Agricultural Resources, Governance and Ecology, International Journal of Climatology, International Journal of Environment and Pollution, International Journal of Environmental Research and Public Health, International Journal of Sustainable Development, Journal of Applied Econometrics, Journal of Applied Economics, Journal of Bioeconomics, Journal of Cleaner Production, Journal of Commodity Markets, Journal of Development Economics, Journal of Econometrics, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Economic Growth, Journal of Economic Surveys, Journal of Environmental Economics and Management, Journal of Environmental Economics and Policy, Journal of Environmental Management, Journal of Environment and Development, Journal of Forest Economics, Journal of Industrial Ecology, Journal of Informetrics, Journal of International Trade & Economic Development, Journal of Productivity Analysis, Journal of Public Economics,

Journal of the Association of Environmental and Resource Economists, Journal of the Association for Information Science and Technology, Journal of the European Economic Association, Journal of the Royal Statistical Society: A, The Lancet Planetary Health, Macroeconomic Dynamics, Nature, Nature Climate Change, Nature Energy, Nature Sustainability, New Zealand Economic Papers, OPEC Energy Review, Oxford Bulletin of Economics and Statistics, Oxford Economic Papers, Papers in Regional Science, Physica A, PLOS ONE, Portuguese Economic Journal, Proceedings of the National Academy of Sciences, Progress in Development Studies, Resource and Energy Economics, Review of Agricultural and Environmental Studies, Review of Economics and Statistics, Science Advances, Scientific Reports, Scientometrics, Scottish Journal of Political Economy, Social Science Quarterly, Southern Economic Journal, Spatial Economic Analysis, Strategic Behavior and the Environment, Structural Change and Economic Dynamics, Tellus B, The Lancet Planetary Health, Theoretical and Applied Climatology, Urban Studies, WIRES Climate Change, World Bank Economic Review, World Development.

Book Chapters: Cambridge University Press, Edward Elgar, World Resources Institute. **Book Publishers:** World Resources Institute, Edward Elgar, Addison-Wesley, Elsevier, Palgrave-Macmillan, Routledge, Springer, Bristol University Press, Oxford University Press, Cambridge University Press.

Research Funding: Swiss National Science Foundation, Social Science and Humanities Research Council of Canada, U.S. National Science Foundation, Research Promotion Foundation of the Republic of Cyprus, Australian Research Council, Israel Science Foundation, and Ring Center for Interdisciplinary Research, Hebrew University of Jerusalem.

Reports: Great Barrier Reef Marine Park Authority, U.S. Environmental Protection Agency, Climate Institute/Vivid Economics, The Grantham Research Institute on Climate Change and the Environment, Legatum Global Prosperity Index, NSW State of the Environment Report 2018 and 2021, NSW Energy Cost-Benefit Analysis Guidelines. Review editor for Chapter 2 of Working Group III contribution to IPCC 6th Assessment Report.

Tenure and Promotion, Program, and Research Assessment: Twenty three universities, Australian Research Council.

Conferences: EAERE 2020, 2021; ISEE 2004, 2010, 2014. IAEE 2026.

Scholarship Assessment: IPCC.

Blogging

Stochastic Trend Blog: http://stochastictrend.blogspot.com. Recognized as a Top 100 Economics Blog for 2016-2024: https://www.intelligenteconomist.com/economics-blogs/

Conference Organization

Lead member of the organizing committee of ISEE 2000 biennial conference in Canberra. Member of organizing committee of ISEE 1996 biennial conference in Boston.

Recent (5 years) External Presentations

How Effective is Carbon Pricing in Reducing Carbon Emissions Intensity? A Meta-Analysis of the Quasi-Experimental Research, Economics Discipline, Business School, University of Technology Sydney 10 September 2025. Invited seminar.

How Effective is Carbon Pricing in Reducing Carbon Emissions Intensity? A Meta-Analysis

of the Quasi-Experimental Research. 2nd Economic Impacts of Climate Change Workshop, Sydney, 5 August 2025.

Econometric Modelling of the Impact of Climate Change on Economic Growth. Australian Agricultural and Resource Economics Society, 69th Annual Conference, Brisbane, 14 February 2025. Contributed paper.

Econometric Modelling of the Impact of Climate Change on Economic Growth. 1st Economic Impacts of Climate Change Workshop, Sydney, 12 August 2024.

The Macroeconomic Impacts of Disasters and Climate Change, Institute for Climate Risk and Response, University of New South Wales, Sydney 19 June 2024.

Are the Benefits of Electrification Realised Only in the Long Run: Evidence from Rural India. Australian Agricultural and Resource Economics Society, 68th Annual Conference, Canberra, 7 February 2024.

Electricity Markets with Speculative Storage and Stochastic Generation and Demand, Markets, Contracts, and Organizations Conference, Research School of Economics, Australian National University, Canberra, 29 June 2023.

Electricity Markets with Speculative Storage and Stochastic Generation and Demand, Western Economic Association International 17th Conference, Melbourne, 12 April 2023. Contributed paper.

The Environmental Kuznets Curve, Enercon 2022, The 3rd International Conference on Energy and Environmental Economics, University of the Philippines Los Banos, 29 July 2022. Plenary paper.

Asymmetric Response of Carbon Emissions to Changes in GDP and Negative Oil Market Shocks, FEEM Economic Modelling Seminar Series, 17 March 2022. Invited seminar.

Energy and Carbon Emissions Dynamics, International Monetary Fund Research Department, Climate Change Seminar Series, 19 November 2021. Invited seminar.

Francqui Chair Lectures at Hasselt University. Five lectures from 8 March to 7 May 2021.

How Large is the Economy-wide Rebound Effect? 7th IAEE Asia-Oceania Conference 2020, Auckland, 15 February 2020. Plenary paper.