

Curriculum Vitae

January, 2022

Name Lars *Tommy* Lundgren

Date of birth September 1, 1970

Place of birth Härnösand, Sweden

Degrees

Bachelors thesis 1996: “The Swedish Krona Risk Premium during 1992-1995: An Econometric Analysis”, Department of Economics, Umeå University.

Ph D thesis 2001: “Dynamic Factor Demand and Environmental Investments – Applications to the Swedish Forest Industry”, Department of Forest Economics, Swedish University of Agricultural Sciences - SLU. Supervisor: Prof Bengt Kriström. Thesis opponent: Prof Anastasios Xepapadeas, Department of Economics, University of Crete, Greece.

Docent/Associate level

Associate Professor 2007 (docent) in Economics, Department of Economics, Umeå University.

Current and past positions

Current affiliations and positions:

- 1) Professor (chair) of Resource Economics, Department of Forest Economics, Swedish University of Agricultural Sciences (SLU).
- 2) Director ***Centre for Environmental and Resource Economics*** (CERE), a joint venture between Umeå University and Swedish University of Agricultural Sciences (www.cere.se/en).
- 3) Guest Professor, Luleå Technical University, 2020 – 2022.

CERE web: <http://www.cere.se/en/news/139-intern-personal/ceres-ledning/218-tommy-lundgren.html>

Past

1. Ph D candidate, SLU Umeå, Sweden 1996 – 2001.
2. Researcher, Department of Forest Economics, SLU, Umeå, Sweden 2001-06-09 – 2018-09-30
3. Researcher (post-doc/researcher/guest lecturer), Umeå School of Business and Economics, Umeå University, 2006-10-01 – 2012-06-30.
4. Professor of Economics (guest) and Scientific Secretary CERE, Umeå School of Business and Economics (USBE), Umeå University, Umeå, Sweden. 2012-07-01 - 2017-06-30.
5. Researcher/consultant, National Institute of Economic Research, Environmental Economics Unit – 2015-10-01 – 2016-01-31.
6. Associate Professor/Senior Researcher at the School of Business, Economics and Statistics, Department of Economics, Umeå University, 2018-10-01 – 2021-01-15

Research stays abroad

- 1) Visiting scholar (Ph d student) at the Department of Agricultural and Resource Economics, UC Berkeley, CA 94 720, USA, 1998-01-01 – 1998-08-01. Local sponsor: Professor Michael Hanemann.
- 2) Visiting scholar at the Department of Economics, University of Calgary, Alberta Canada, 2002-01-01 – 2002-06-01. Local sponsor: Professor Elizabeth Wilman.
- 3) Visiting scholar at the Department of Economics, University of Otago, Dunedin, New Zealand, 2005-07-01 – 2005-09-30. Local sponsor: Professor Dorian Owen.
- 4) Visiting scholar at the Department of Agricultural and Resource Economics, UC Berkeley, CA 94 720, USA, 2012-10-15 – 2013-01-01. Local sponsor: Professor Peter Berck.
- 5) Visiting researcher at Groningen University in January 2015. Local sponsor: Associate professor Lammertjan Dam.

Teaching 1996-2021

(1-8, *slanted font*, taught before 2007)

<u>Course</u>	<u>Level</u>
1. <i>Introductory microeconomics*</i> (SLU)	Undergraduate
2. <i>Environmental economics</i> (SLU)	Undergraduate
3. <i>Natural resource economics</i> (SLU)	Undergraduate
4. <i>Demand analysis and market eval.</i> (SLU)	Undergraduate
5. <i>The firm and the environment*</i> (SLU)	Master
6. <i>Business strategy and the env.*</i> (SLU)	Undergraduate
7. <i>Introductory forest economics*</i> (SLU)	Undergraduate
8. <i>Microeconomics</i> (SLU)	Graduate
9. Supply strategy in the forest sector (SLU)	Undergraduate
10. Environmental economics and policy* (SLU)	Master/Phd
11. Env. and res. economics* (Beijing Forestry U.)	Master
12. Economic methods for eval. public projects*(UmU)	Master
13. Environmental and Res. Economics (UmU)	Master/Phd
14. Microeconomic theory: the consumer (UmU)	Master/Phd
15. Principles of microeconomics* (UmU)	Undergraduate
16. Market failure, resource allocation* (UmU)	Undergraduate
17. Environmental economics and policy* (Renmin U.)	Master/Phd
18. Production and the environment * (UmU/SLU)	Master/Phd
19. The economics of forestry* (SLU)	Undergraduate
20. Intermediate Env economics* (UmU)	Undergraduate
21. Advanced Microeconomics* (UmU)	Undergraduate
22. Intermediate Public Finance* (UmU)	Undergraduate
23. The firm, the environment and society* (UmU)	Undergraduate
24. Applied math for economists* (Luleå Tech U)	Undergraduate

*Course responsibility.

Supervising

Undergraduate and master level

2002 – ...: supervisor to numerous bachelor and master students at the department of economics at Umeå University, and at the department of Forest Economics, Swedish University of Agricultural Sciences.

Ph D level

1. Örjan Furtenback, Ph D student dept of forest economics/CERE, SLU, Umeå, Sweden. Licenciante thesis 30/9, 2009: "Fuel substitution in Swedish district heating and CGE modeling with forest as capital". Ph D thesis **defended September 30 2011**: "Three essays on Swedish energy and climate policy options – dynamic CGE-models with heterogeneous forests and econometric model of fuel substitution in district heating plants". Researcher at NIER (KI) 2011-2013. Post-doc at CERE 2013 - 2016.
2. Eric Brockwell, Ph D student dept of economics/CERE, Umeå University, Umeå Sweden. 2010 – 2014 (October). **Defended October 10, 2014**: "State and industry actions to influence consumer behavior". SLU, Ultuna.
3. Mathilda Eriksson, Ph D student dept of economics/CERE, Umeå University, Umeå Sweden. **Defended May 26, 2016**: "The role of the forest in climate policy". Post-doc Paris/Atlanta.
4. Shanshan Zhang, Ph D student dept of forest economics/CERE, SLU, Umeå, Sweden. **Defended May 27, 2016**: "Energy efficiency and firm performance – evidence from Sweden". Assistant Professor Xiamen University, China. Post doc Xian University.
5. Philip Kofi Adom, Ph D student dept of forest economics/CERE, SLU, Umeå, Sweden. **Defended March 18, 2016**: "Energy demand Management in Selected African Countries". Professor, U. of Accra, Ghana.
6. Golnaz Almadi, Ph D student dept of economics/CERE, Umeå University, Umeå Sweden. "Energy demand and the rebound effect". 2014 – 2020 (Nov 27). Statistics Luxembourg, Analytics department.
7. Hanna Lindström, Ph D student dept of Economics, Umeå University. "Green public procurement as an environmental policy instrument". 2017 – 2021. Defending in October 2021.
8. TBA, Ph D student dept of economics, Umeå University. "Measuring corporate sustainability: theory and empirics". 2021 - ...
9. TBA, Ph D student dept of forest economics, SLU, 2021 ...

Committee work

1. Member of the grading committee (chairman) at the Ph d dissertation for Fredrik Pettersson, Division of Economics, Luleå University, **December 2008**. Thesis title: "The economics of power generation and climate policy"
2. Member of the grading committee for Ph D Jonatan Svanlund, Economic History, Umeå University, **February 2010**. Thesis title: "Swedish and Finnish Catch-up Growth 1950-2000".
3. Member of grading committee (chairman) for Ph D Jonas Nilsson, School of Business, Umeå University, **March 2010**. Thesis title: "Consumer decision in a complex environment – Examining the decision-making process of socially responsible mutual fund investors".
4. Main opponent at Licenciante seminar for Anna Olsson, Luleå Technical University, **May 2011**. Thesis title: "Examining the competition for forest resources in Sweden using factor substitution analysis and partial equilibrium modeling".
5. Pre-dissertation seminar Hans Nylund, Luleå Technical University, **June 2013** "Four essays on the Nordic electricity market".

6. Final thesis seminar discussant Haishan Yu, Uppsala University, **March 2014**. “4 essays on climate economics”.
7. Final thesis seminar discussant Rustam Vosilov, “The market for sculptures”, Umeå School of Business, Umeå University, **April 2015**.
8. Final thesis discussant Miriam Munnich Vass, Dept of Economics, SLU, Uppsala, **September 2015**. “Forests as a climate policy instrument”.
9. Thesis committee member Miriam Munnich Vass, Dept of Economics, SLU, Uppsala, **December 2015**. “Forests as a climate policy instrument”. Chairman.
10. Thesis committee and evaluator for PhD student Ambrogio Dalo, University Tor Vergata, Rome, Italy. Department of Finance and Economics, **March 2017**. “CSR in financial markets”.
11. Thesis committee Franklin Amuakwa-Mensah. SLU Uppsala, “Essays on economics of multifunctional forests, migration and climate change”, **September 2017**.
12. Thesis committee Sebastian Christoph Petersen, Technical University of Denmark, Department of Management Engineering, **February 2018**. “Encouraging Residential Energy Efficiency Improvements”.
13. Final thesis discussant Wondmagegn Tafesse Tirkaso, “Four papers on applied policy analysis related to the environment: applications to Ethiopia and Sweden”, SLU Uppsala, **April 2018**.
14. Thesis committee Wondmagegn Tafesse Tirkaso, “Four papers on applied policy analysis related to the environment: applications to Ethiopia and Sweden”, SLU Uppsala, **November 2018**.

University positions evaluator

Lectureship (associate professor), Södertörn Högskola, 2018.

Pedagogic courses (attended)

1. Grading criteria in practice - a 3-day workshop, SLU Pedagogic Center (UPC), Uppsala, Sep. 2015.
2. Postgraduate supervision in practice, UPL, Umeå University, spring 2017.

University services

1. Library committee, SLU-Umeå, 2012 – 2018.
2. Equal opportunity committee, SLU, 2016 – 2018.

Scientific publications

Google scholar:

<https://scholar.google.se/citations?user=-1JnQagAAAAJ&hl=sv>

Scopus:

<https://www.scopus.com/authid/detail.uri?authorId=35608489200>

Working papers and reports (not – yet - published in scientific journals)

1. Kriström, B. and T. Lundgren (2001) ”Models of the Green Firm”, *Working paper 315*, Department of Forest Economics, SLU Umeå.
2. Lundgren, T. (2002) “Långsiktiga avtal i miljöpolitiken”, *Report 126*, Department of Forest Economics, SLU Umeå.
3. Lundgren, T. (2003) “Ekonomiska konsekvenser av att ’gå före’ och att utföra åtgärder i början av ett långsiktigt åtagande”, *Report 127*, Department of Forest Economics, SLU Umeå.

4. Brännlund, R., T. Lundgren (2004) "Kyoto och Basindustrin – Modeller och Simulering", *Working paper 347*, Department of Forest Economics, SLU, Umeå.
5. Lundgren, T. (2005) "Effekter på basindustrin av förändringar i energiskattesystemet – simulering med en faktorefterfrågemodell" *Working paper 351*, Department of Forest Economics, SLU, Umeå.
6. Lundgren, T. (2005). "Measuring Regional Welfare Considering Natural and Cultural Resources", *Economics Discussion Papers* No. 0510, Department of Economics, University of Otago, Dunedin, New Zealand.
7. Lundgren, T. (2006) "Att mäta regional välfärd och ta hänsyn till natur- och kulturkapital", *Working paper 358*, Department of Forest Economics, SLU, Umeå.
8. Lundgren, T. (2007) "On the economics of corporate social responsibility", Working paper series *Socially Investment Research Platform*, SIRP WP 07-03.
9. Brännlund, R and Lundgren, T. Effekter för den elintensiva industrin av att dessa branscher i olika grad omfattas av kvotplikt inom elcertifikatsystemet. CEREP WP 07-2011.
10. Amjadi, G., T. Lundgren, Z. Wenchao (2020). "A Dynamic Analysis of Industrial Energy Efficiency and the Rebound Effect". CEREP WP 2020:1.
11. Bostian, M., T. Lundgren (2020). "Valuing ecosystem services for agricultural TFP". Paper prepared for the 'OECD TFP and the Environment Network meeting', Paris, May 2020. CEREP WP 2020:14.

Papers published in peer-reviewed journals (including forthcoming)

1. Lundgren, T. (1998) "Capital Spending in the Swedish Forest Industry Sector – Four Classical Investment Models", *Journal of Forest Economics* 4(1), 61-83.
2. Lundgren, T. and Sjöström, M. (1999) "A Dynamic Factor Demand Model for the Swedish Pulp Industry – An Euler Equation Approach", *Journal of Forest Economics* 5(1), 45-67.
3. Lundgren, T and Sjöström, M. (2001) "A Flexible Specification of Adjustment Costs in Dynamic Factor Demand Models", *Economics Letters* 72(2), 145-150.
4. Kriström, B. and T. Lundgren (2003) "Abatement Investments and Green Goodwill", *Applied Economics* 35(18), 1915-1923.
5. Lundgren, T. (2003) "A Real Options Approach to Abatement Investments and Green Goodwill", *Environmental and Resource Economics* 25(1), 17-31.
6. Lundgren, T, and R. Brännlund (2004) "A Dynamic Analysis of Interfuel Substitution for Swedish Heating Plants", *Energy Economics*, Volume 26, Issue 6, November, Pages 961-976.
7. Lundgren, T., (2004), "Forecasting Investment Under Uncertainty: A Performance Test of Investment Models", *Empirical Economics Letters* 3(6), November, 289 - 298.
8. Lundgren, T. (2004) "Vad kostar en offensiv klimatpolitik?" ("What is the cost of an ambitious climate policy?"), *Ekonomisk Debatt* 6, 19-32.
9. Kriström, B. and T. Lundgren (2005), "Swedish CO₂-Emissions 1900-2010: An Exploratory Note", *Energy Policy* 33(9), June 2005, 1223 – 1230.

10. Lundgren, T., (2005), "Assessing the Investment Performance of Swedish Timberland: A CAPM Approach", *Land Economics* 81(3), August, 353 - 362.
11. Lundgren, T., C. Sandström, T. Willebrand (2006) "Reaching for new perspectives on socio-ecological systems: Exploring the possibilities for adaptive co-management in the Swedish mountain region", *The International Journal of Biodiversity Science and Management* 2(4), 359-70.
12. Brännlund, R. and T. Lundgren (2007) "Swedish Industry and Kyoto – An Assessment of the Effects of the European CO₂ Emission Permit Trading System", *Energy Policy* 35(9), 4749-4762.
13. Hammar, H., T. Lundgren, M. Sjöström (2008) "The significance of transport costs in Swedish forest industry", *Journal of Transport Economics and Policy* 42(1), 83-104.
14. Lundgren, T. (2008). "Environmental protection and the impact on adjacent economies", *Growth and Change* 40(3), 513-532.
15. Brännlund, R., B. Kriström, T. Lundgren, P-O Marklund (2008) "Economics of Biofuels", *International Review of Environmental and Resource Economics* 2, 237-280.
16. Brännlund, R., T. Lundgren (2009) "Environmental policy without costs? A review of the Porter hypothesis", *International Review of Environmental and Resource Economics* 3, 1-43.
17. Bostedt, G., T. Lundgren (2010) "Accounting for Cultural Heritage - A Theoretical and Empirical Exploration with Focus on Swedish Reindeer Husbandry", *Ecological Economics* 69(3), 651-657.
18. Lundgren, T., R. Olsson (2009) "How bad is bad news? Assessing the effects of environmental incidents on firm value", *American Journal of Finance and Accounting* 1(4), 376-92.
19. Brännlund, R., T. Lundgren (2010), "Environmental Policy and Profitability – Evidence from Swedish Industry", *Environmental Economics and Policy Studies* 12(1-2), 59-78.
20. Lundgren, T., R. Olsson (2010). "Environmental Incidents and Firm Value - International Evidence using a Multi-Factor Event Study Framework", *Applied Financial Economics* 20(16), 1293 - 1307.
21. Hammar, H., T. Lundgren, M. Sjöström, M. Andersson (2011), "The Kilometer Tax and Swedish Industry", *Applied Economics* 43, 2907-2917.
22. Lundgren, T. (2011), "A micro-economic model of corporate social responsibility", *Metroeconomica* 62(1), 69-95.
23. Fangmiao, H., F. Yi-zhong, R. Brännlund, T. Lundgren (2011). "Implications of European low-carbon energy policy changes for the Swedish and Global forest products sectors: An analysis based on GFPM". *E-Business and E-Government (ICEE) International Conference Publications*.
24. Lundgren, T., P-O. Marklund (2012), "Bioenergy and carbon neutrality", *Journal of Forest Economics* 18(1), 91-93.
25. Brännlund, R., O. Carlén, Lundgren, T., P-O Marklund (2012). "The costs and benefits of intensive forest management", *Journal of Benefit-Cost Analysis* 3(4), 2152-2812.
26. Lundgren, T., P-O. Marklund (2013), "Assessing the welfare effects of promoting biomass growth and the use of bioenergy", *Climate Change Economics* 4(1), 1-13.

27. Brännlund, R., T. Lundgren, P-O Marklund (2014), "Carbon intensity in production and the effects of climate policy – evidence from Swedish industry", *Energy Policy* 67, 844-857.
28. Jaraite, J., A. Kazukauskas, T. Lundgren (2014). "The effects of climate policy on environmental expenditure and investments: evidence from Sweden", *Journal of Environmental Economics and Policy* 3(2), 148-166.
29. Färe, R., S. Grosskopf, T. Lundgren, P-O. Marklund and W. Zhou (2014) "Pollution generating technologies and environmental efficiency". *Journal of Chinese Economics and Business Studies* 12(3), 233-251.
30. T. Lundgren, P-O. Marklund, E. Samakovlis, W. Zhou (2015), "Carbon prices and incentives for technological development". *Journal of Environmental Management* 150, 393–403.
31. Lundgren, T., P-O. Marklund (2015), "Climate policy, environmental performance, and profits". *Journal of Productivity Analysis* 44(3), 225-235.
32. Brännlund, R., T. Lundgren, P. Söderholm (2015), "Convergence of carbon dioxide performance across Swedish industrial sectors: An environmental index approach". *Energy Economics* 51, 227-235.
33. Lundgren, T., Marklund, P-O., Zhang, S (2016). "Industrial energy demand and energy efficiency - evidence from Sweden". *Resource and Energy Economics* 43, 130-52.
34. Lundgren, T., Zhang, S. & Zhou, W. (2016). "Energy efficiency in Swedish industry - a firm-level data envelopment analysis". *Energy Economics* 55, 42-51.
35. Bostian, M., R. Färe, S. Grosskopf, T. Lundgren (2016). "Environmental investment and firm performance: a network approach." *Energy Economics* 57, 243-255.
36. Karimu, A., Brännlund, R., Lundgren, T., Söderholm, P (2017). "Energy intensity and convergence in Swedish industry: A combined econometric and decomposition analysis." *Energy Economics* 62, 347–356.
37. Lundgren, T., Z. Wenchao (2017). Firm performance and the role of environmental management. *Journal of Environmental Management* 203(1), 330-341.
38. Bostian, M., R. Färe, S. Grosskopf, T. Lundgren, W. Weber (2018). "Time substitution for environmental performance". *Empirical Economics* 54, 129–152.
39. Eriksson, M., Brännlund, R., Lundgren, T (2018). "Pricing forest carbon: implications of asymmetry in climate policy". *Journal of Forest Economics* 32, 84-93.
40. Amjadi, G., T. Lundgren, L. Persson (2018). "The rebound effect in Swedish heavy industry". *Energy Economics* 71, 140-148.
41. Bostian, M., R. Färe, S. Grosskopf, T. Lundgren (2018). "Network representations of pollution-generating technologies". *International Review of Environmental and Resource Economics* 11, 193-231.
42. Vesterberg, M., Z. Wenchao, T. Lundgren (2021). "Wind of change: Small-scale electricity production and distribution grid efficiency in Sweden". *Utilities Policy* 69, April issue.
43. Dahlqvist, A., Lundgren, T., Marklund, P.-O. (2021). "Assessing the Rebound Effect in Energy Intensive Industries: A Factor Demand Model Approach with Asymmetric Price Response". *Energy Journal* 42, July.
44. Wenchao, Z., Bostian, M., R. Färe, S. Grosskopf, T. Lundgren (2021). "Efficient and Sustainable Bioenergy Production in Swedish Forests".

Theme issue on 'Measurement of Environmental Efficiency' in *Data Envelopment Analysis (DEA) Journal* 5 (2).

45. Lundmark, R., T. Lundgren, E. Olofsson, W. Zhou (2021). "Meeting challenges in forestry: improving performance and competitiveness". *Forests* 12, 208.
46. Bostian, M., R. Färe, S. Grosskopf, T. Lundgren (2022). "Prevention or cure? Optimal Abatement Mix". *Environmental Economics and Policy Studies*.
47. Amjadi, G., T. Lundgren (2022). "Is Industrial Energy Inefficiency Transient or Persistent? Evidence from Swedish Manufacturing". *Applied Energy* 309.
48. Amjadi, G., T. Lundgren, Z. Wenchao (2022). "A dynamic analysis of industrial energy efficiency and the rebound effect". Forthcoming *Energy Efficiency*.

Book chapters

1. Lundgren, T., P. Cerin (2009) "Osäkrat klimat – laddad utmaning", Sep 2009, Formas Fokuserar-book, chapter on CSR and welfare (co-authored with P. Cerin). Also translated into English in 2010, "Climate challenge – the safety's off".
2. Lundgren, T. (2012). "Hållbar utveckling - Från risk till värde" (Sustainable development – from risk to value). Eds. L. Hassel, L-O Larsson, E. Nore. Studentlitteratur: Stockholm. Chapter on sustainable development in Swedish industry.
3. Lundgren, T., P-O. Marklund (2013). "Encyclopedia of Energy, Natural Resource and Environmental Economics", chapter on "Biofuel economics – A review". Ed. J. Shogren., Elsevier, London, UK.
4. Lundgren, T. (2015). "A micro-economic model of CSR" (reprint from *Metroeconomica*) included in the collection of papers "Economics of CSR", edited by Abigail McWilliams, Edward Elgar, the International Library of Critical Writings in Economics 296.
5. Lundgren T., Dam L., Scholtens B. (2019). "Sustainable Business Practices—An Environmental Economics Perspective." In: Arvidsson S. (ed.) *Challenges in Managing Sustainable Business*. Palgrave Macmillan.
6. Dam, L., T. Lundgren, B. Scholtens (2019). "Environmental responsibility – theoretical perspective". Eds. McWilliams, Rupp, Siegel, Stahl, Waldman. *Oxford Handbook of Corporate Social Responsibility*. Oxford University Press.
7. Bostian, M., T. Lundgren (2020). Production and the environment. Eds. S. Ray, R. Chambers, and S. Kumbhakar. In *Handbook of Production Economics*. Springer.

Books

1. Lundgren, T., J. Stage, T. Tangerås, B. Carlén (2013). "Energimarknaden, ägandet och klimatet" (The energy market, ownership, and the climate). SNS Publisher: Stockholm.
2. Färe, R., G. Grosskopf, T. Lundgren, P-O Marklund, Z. Wenchao (2016). "The impact of climate policy on economic and environmental performance – Evidence from Sweden". Routledge, London, UK. Reviewed in *Energy Journal* (IAEE) in 2017.
3. Aldén et al. (2017). "Nationalekonomins frågor". Studentlitteratur: Lund.

4. *Editor-in-Chief* (with S. Managi and M. Bostian), 2nd edition of the *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Elsevier (1st ed E-i-C J. Shogren, 2013). Planned publication summer 2023.

Other publications and media

1. Lundgren, T. (2002) "Miljöinvesteringar lönar sig", Fakta-Skog 1, 2002.
2. SOU 2003:60, "Handla för bättre klimat", delbetänkande av FlexMex2-utredningen, part of chap. 10.
3. "Basindustrin och Kyoto – Effekter på Konkurrenskraften av Handel med Utsläppsrätter", Institutet för Tillväxtpolitiska Studier (ITPS), A2004:019, chap. 7 (with Runar Brännlund).
4. Lundgren, T. (2005) "Varför investerar en del företag frivilligt i miljövänlig teknologi?", prize essay *Thule Yearbook* 2005, ISSN 0280-8692, Royal Skytteanska Society.
5. Lundgren, T. (2004), "The Determinants of Economic Growth in the Swedish Mountain Region - the Role of the Forest Industry, the Tourism Sector, and Protected Land." *FjällMistra-rapport nr. 8*, ISSN 1652-3822.
6. Naturvårdsverket (Swedish EPA) (2007), "Klimat, transporter och regioner - en studie om målkonflikter och målsynergier" (co-authored).
7. SIKA/ITPS (2007), "Kilometre tax for lorries – effects on industries and regions" (co-authored)
8. Västerbottenskuriren (VK), 18/7, 2009, "En ohelig allians". English translation: "Unholy alliance in climate policy". (co-authored with R. Brännlund and B. Kriström)
9. "En samhällsekonomisk bedömning av intensivodling av skog", 2009, faktaunderlag till MINT-utredning om möjligheter till intensivodling av skog, SLU, Rapport. ISBN 978-91-86197-44-5. (co-authored with R. Brännlund, Ola Carlén, and Per-Olov Marklund).
10. Västerbottenskuriren (VK), 18/7, 2009, "En ohelig allians". English translation: "Unholy alliance in climate policy". (co-authored with R. Brännlund and B. Kriström)
11. "För eller emot – Har E85 en framtid som miljöbränsle?". Comment on the issue in Miljörapporten Nr 5/2011. Published commentary on "Ska jag tanka etanol? (Semida Silveira) FORES Think Tank Study 2011:1, Essays on Environmental Economics and Entrepreneurship.
12. Lundgren, T. and P-O. Marklund (2012) "Bioenergi, klimat och Ekonomi", Miljöforskning – Formas tidning för ett hållbart samhälle, No 1, March 2012.
13. Lundgren, T., B. Carlén, J. Stage "Kommunala klimatsatsningar riskerar bli slag i luften". Göteborgsposten, 28 Aug. 2013.
14. Lundgren, T (2014) "Sustainable Sweden - how Swedish business responds to climate policies", project summary in Insight Publishing Magazine.
15. Lundgren, T. (2015) "CSR ur ett nationalekonomiskt perspektiv", SNS Analys.
16. Entreprenör, March 2015. Interview on strategic CSR.
17. "Fyra genomtänkta steg för en effektiv klimatpolitik". Debattartikel VK, 12 november 2015 (med R. Brännlund och S. Lundberg).
18. "De föreslagna klimatåtgärderna saknar vetenskaplig förankring", replik (reply) DN debatt, 31 October 2018.

19. Interview Swedish Radio P4 about the impact of the USA-Iran conflict on local fuel prices in northern Sweden, 8 January 2020.

Conference papers

“A Dynamic Factor Demand Model for the Swedish Pulp Industry”, presented at the

1. IUFRO meeting September 1997, Umeå, Sweden,
2. 5th Ulvön conference, Sweden, June 1998.

“The Theory of Exhaustible Resources and the Swedish Mining Industry”, presented at the 6th Ulvön conference on environmental economics in June 1999.

“A Real Options Approach to Abatement Investments and Green Goodwill”, presented at the Young Economist Conference Oxford UK, March 2000.

“Abatement Investments and Green Goodwill”, presented at the

1. 7th Ulvön conference on environmental economics, Sweden, June 2000.
2. 10th EAERE annual conference at the island of Crete, Greece, July 2000.
3. Southern Economic Association annual meeting in November 2001, in Tampa, Florida, USA. (invited to session on green goodwill)

“A Dynamic Analysis of Inter-fuel Substitution for Swedish Heating Plants”, presented at the

1. 8th Ulvön conference on environmental economics, Sweden, June 2001.
2. 11th EAERE annual conference Southampton (presenter R. Brännlund), UK, July 2001.

“Swedish Timberland Returns”, presented at the 9th Ulvön conference on environmental economics, June 2002.

“Economic Growth and trends in the Swedish Mountain Region”, poster session at *Fjällen i fokus* (Swedish mountain region in focus), Umeå, Sweden, Sep 29-30, 2004.

“The Determinants of Economic Growth in the Swedish Mountain Region - the Role of the Forest Industry, the Tourism Sector, and Protected Land”, presented at

1. the International Symposium on Society and Resource Management (ISSRM) 2005 conference, June 16 – 19, Östersund, Sweden.
2. the Western Agricultural Economics Association annual meeting, June 28-30, 2006, Anchorage, AK, USA.

“Measuring Regional Welfare Considering Natural and Cultural Resources”, presented at the Western Agricultural Economics Association annual meeting, June 28-30, 2006, Anchorage, AK, USA.

“Swedish Industry and Kyoto – An Assessment of the Effects of the European CO₂ Emission Permit Trading System”, presented at the Third World Congress of Environmental and Resource Economists, Kyoto International Conference Hall, Kyoto, Japan, July 3-7, 2006.

“Skogen, turismen och reservaten – spelar de någon roll?”, presented at Fjällen i fokus, Vilhelmina - Sweden, November 20, 2006.

”On the economics of corporate social responsibility”, presented at

1. 13th Annual International Sustainable Development Research Conference. Critical Perspectives on Health, Climate Change and Corporate Responsibility, June 10-12, 2007 in Västerås, Sweden.
2. The Maastricht 2007, Environmental Social Governance MISTRA Meeting, “On The Relevance of Extra-Financial Information”, September 21, 2007, at the Department of Economics and Finance, University of Maastricht.

“The significance of transport costs in the Swedish forest industry”, presented at the 15th EAERE Annual Conference, hosted by the University of Macedonia, Thessaloniki, Greece, 27-30 June 2007. (Co-presented with Henrik Hammar, KI, Sthlm).

“How bad is bad news?”, presented at the 15th Ulvön conference on environmental economics, June 2008.

“A micro-economic model of corporate social responsibility”, presented at the 3rd Atlantic Conference on Energy and Environmental Economics organized by: rede , Universidad de Vigo A Toxa, Galicia (Spain), 4-5 July 2008.

"Accounting for Cultural Heritage", EAERE Annual Conference on Environmental and Resource Economics, Amsterdam, NL, June 2009.

“Environmental Incidents and Firm Value - International Evidence using a Multi-Factor Event Study Framework”. 16th Annual International Sustainable Development Research Conference held at The Hong Kong Convention and Exhibition Centre, Hong Kong on 30 May – 1 June 2010.

“Climate Policy and Profit Efficiency”, Fourth World Congress of Environmental and Resource Economists June 28 to July 2, 2010 Montreal, Canada.

“Environmental Performance and Swedish industry” (2010), 11th Global Conference on Environmental Taxation Issues (GCET) 2010, Bangkok 3-5 November, 2010.

“Climate Policy and Environmental Performance”, EAERE Annual Conference on Environmental and Resource Economics, Rome, University Tor Vergata, June 2011 (R. Brännlund presenter).

“Determinants of environmental investment and expenditure – evidence from Sweden”, EAERE Annual Conference on Environmental and Resource Economics, Prague, June 2012.

“Climate policy, environmental performance, and profits”.

1. Schroeder Investment Bank, London, May 10, 2012.

2. Tsinghua University international meeting on productivity, July 14-15, 2012.
3. APPC meeting on productivity, Bangkok, July 24-27. Special invite to present at plenary session in honour of Rolf Färe's 70th birthday.
4. UC Berkeley, Agricultural and Resource Economics, December 7, 2012.
5. EAERE annual environmental and resource economics meeting, Toulouse, June 2013.

“Which bad is worst? An application of Leif Johansen's capacity model”.

1. Productivity meeting in Gothenburg in honor of Lennart Hjalmarsson, December 2012 (R. Färe).
2. NZ Econometric meeting Auckland, February 2013 (R. Färe).
3. EWEPA Helsinki, June 2013 (R. Färe).

”Assessing energy efficiency in Swedish industry – a stochastic frontier approach”, APPC Brisbane 2014 (S. Zhang).

”Assessing energy efficiency in Swedish industry – A DEA approach”,

1. APPC Brisbane 2014 (S. Zhang).
2. IAEE meeting Beijing 2014 (Z. Wenchao)

“Carbon prices and incentives for technological development”, IAEE meeting Beijing 2014 (P-O Marklund).

“Assessing the societal impacts of intensive forest management and increased use of bioenergy – a cost-benefit analysis”. The Umeå Renewable Energy Meeting (UREM), March 2015.

“Environmental investments and firm performance: a network approach”.

1. IAEE meeting Antalya, Turkey, May 2015. (M. Bostian).
2. Ulvön conference on environmental economics, Sweden, June 2015. (M. Bostian).

“Environmental investments and firm performance: a panel VAR approach”.

1. The Bergen Economics of Energy and Environment Research (BEEER) Conference, NHH, Bergen, Norway, May 2015. (S. Zhang).
2. IAEE Asian meeting, Perth, Australia, February 2016.

“The rebound effect in Swedish heavy industry”.

1. the 23rd Ulvön Environmental Economics meeting, June 2016. (G. Amjadi)
2. SAE 2016, Aug Luleå, Sweden (G. Amjadi)
3. EWEPA 2017, June, London, UK.
4. EAERE 2018, July, Athens, Greece (G. Amjadi)
5. EWEPA 2019, June, London, UK (G. Amjadi)

“Energy Intensity and Convergence in Swedish Industry: A Combined Econometric and Decomposition Analysis”.

1. the 23rd Ulvö Environmental Economics meeting (presenter Amin Karimu), June 2016.
2. SAE 2016, Aug Luleå, Sweden.

“Unintended outputs – DEA network approach”. EWEPA 2017, June, London, UK. (S. Grosskopf).

“Prevention or Cure? Evaluating the tradeoffs between emissions abatement measures”.

1. EWEPA 2017, June, London, UK. (M. Bostian).
2. Ammarnäs CERE Workshop 2019 (M. Bostian)
3. Ulvön Conference 2019 (M. Bostian)
4. EAERE 2020, Berlin, (M. Bostian)

Conference and workshop organizer

1. Mountain Mistra Social Accounting Matrix workshop: what to include? Feb 2004, SLU, Umeå, Sweden. **Organizer:** Tommy Lundgren/Mountain Mistra Research Program.
2. Measuring regional welfare, November 2004, University of Umeå, Umeå, Sweden. **Organizers:** The Mountain Mistra Research Program, Tommy Lundgren, and CERUM, Robert Sörensen.
3. Local and regional Social Accounting Matrices 2004, the Upland Centre. **Organizer:** Tommy Lundgren, SLU, and Kit Nicholson, chief director, the Upland Centre, Penrith, Cumbria, UK.
4. Workshop on Corporate Social Responsibility and Socially Responsible Investing, (**organizer** Tommy Lundgren, and Lammertjan Dam, Groningen University) November 2007, Umeå, Sweden.
5. Swedish Association for Energy Economics Conference 2016, 23-24 August. **Organizer.**
6. Bio4energy workshop on system analysis, Umeå group, August 2018. **Organizer.**
7. 23-27th Ulvön meetings on Environmental Economics (2016, 2017, 2018, 2019, 2021). **Main Organizer.** (2018 jointly organized with the WONW conference).

Workshops

8. *GAMS/MPSGE workshop*, November 2003, Trinity College, Dublin, Ireland. Organizer: Prof. Markusen, Boulder, CO.
9. *The Maastricht 2007, ESG Seminar*, “On the economics of corporate social responsibility”, September 21, 2007, at the Department of Economics and Finance, University of Maastricht.
10. MISTRA’s Workshop on Sustainable Investments, Gothenburg, Sweden, May 7, 2009. “Environmental policy, environmental performance, and profitability”.
11. “Sustainability in Swedish industry – the role of climate policy”, MISTRA meeting in Bilbao, May 2011.
12. Project Workshop on Productivity in Barsebäck June 18, 2012. Organizer.
13. Ammarnäs CERE winter meeting 2010-19. **Organizer.**

Invited presentations

1. “Voluntary Environmental Investments”, October 8, 1999, at the Department of Agricultural and Resource Economics, University of California Berkeley, USA.

2. "Swedish CO₂-Emissions 1900-2010: An Exploratory Note", presented March 15, 2002, at the Department of Economics, University of Calgary, Alberta, Canada.
3. "The Determinants of Economic Growth in the Swedish Mountain Region - the Role of the Forest Industry, the Tourism Sector, and Protected Land," presented at:
 - Department of Economics, University of Umeå, Sweden. (December 17, 2004).
 - Department of Economics, University of Otago, Dunedin, New Zealand. (July 29, 2005).
4. "Swedish Industry and Kyoto – An Assessment of the Effects of the European CO₂ Emission Permit Trading System", presented at the Swedish Institute for Economic Research (Konjunkturinstitutet), March 2006.
5. "Environmental policy, environmental performance, and profitability", IEEF Seminar at Faculty of Economics and Business, Groningen University, NL, April 29, 2009.
6. "Biofuels, the Climate, and Economics", May 14, 2009, Department of Economics, Swedish University of Agricultural Sciences, Uppsala, Sweden.
7. "Bioenergy, Policy, and Climate Economics", invited to speak at the **50th anniversary of Beijing Forestry University**, College of Economics and Management, October 18, 2009.
8. "Environmental policy and efficiency among Firms", lecture/seminar given at Beijing Forestry University, College of Economics and Management, June 2010.
9. "Sustainability in Swedish industry", seminar at the Ministry of the Environment, Feb 2011.
10. "Sustainable development in Swedish firms", seminar at the Tax Policy Unit, Ministry of Finance, Feb 2011.
11. "Climate policy and impact on firms". Invited speaker at department of economics, University of Otago, Dunedin, August 29, 2011.
12. "Climate policy and impact on firms". Invited speaker at University of Las Palmas, Dept of Applied Economics, December 12, 2011.
13. "Environmental policy and impact on environmental and economic performance". Energiutblick (www.energiutblick.se) Gothenburg March 2012.
14. "Climate policy, environmental performance, and profits". MISTRA presentation at Schroeder Investment Bank, London, May 10, 2012.
15. "Climate policy, environmental performance, and profits." UC Berkeley, Agricultural and Resource Economics, December 7, 2012.
16. "The impacts on industrial firms of a kilometer tax". The Norwegian Institute of Transport Economics, October 4, 2014.
17. "Factor demand modeling – a tool for policy analysis". National Institute of Economic Research (Konjunkturinstitutet), Environmental Economics Unit, Stockholm, Sweden, Sep. 2015.
18. "Time substitution for environmental performance". The TEPN workshop, March 2016, Department of Economics, Umeå University.
19. "Energy efficiency and the rebound effect in Swedish heavy industry". Sweden Energy Agency Research Meeting, December 2017, Stockholm.

20. “CSR from an environmental economists view”, SLU, Worth to Know-series (Värt att veta!), April 2018.
21. “Efficient and sustainable bioenergy production from Swedish forests”. Luleå Technical University, October 2018.
22. ECOS workshop on sustainable renewable energy, April 2021. Presentation on sustainable bioenergy use from forests.

Expert in governmental investigations and consulting

1. (2002) Economic consequences of early commitment in climate policy: the case of Swedish Green House Gas emissions, Ministry of Industry, FlexMex2.
2. (2003) Voluntary agreements in environmental policy, Ministry of Industry, FlexMex2.
3. (2003) Experiences from emissions trading in Denmark, Ministry of Industry, FlexMex2.
4. (2004) Kyoto and the manufacturing industry – factor demand modeling and impact analysis, Swedish Institute for Growth Policy Studies (ITPS), and Ministry of Industry.
5. (2005/2006) Effects on Swedish industry of changes in energy taxation system, Swedish Institute for Growth Policy Studies (ITPS), and Ministry of Industry.
6. (2006) The forest sector and the proposed tax on road transport – what can factor demand modeling elasticities tell us? Swedish Institute of Economic Research (KI).
7. (2006/2007) Swedish Industry and a proposed tax on road transport – a regional perspective, Swedish Environmental Protection Agency (SEPA) and TRANSEK.
8. (2008/2009) An evaluation of intensive methods in forest management (Möjligheter till intensivodling av skog), Ministry of Agriculture and Swedish Environmental Protection Agency (Jo 2008/1885). (co-authored with R. Brännlund, O. Carlén, and P. Marklund)
9. (2011) The effects on energy intensive industry of electricity price increases due to an increase in green certificates for renewable energy. Swedish Energy Authority.
10. (2011) Commenting on cost-benefit analysis of changes in the monitoring system of electricity consumption. The Energy Markets Inspectorate.
11. (2012) The effect of transport taxes on society. Report for Centre for Transport Studies. Vinnova-project (PI Matts Andersson, WSP). Joint collaboration WSP, SLU, VTI, KTH, SU.
12. (2012) A lower electricity price and effects on heavy industry, SKGS (commissioned by Lina Palm, Skogsindustrierna).
13. (2015/2016) Developing a factor demand model to be used as a climate/environmental/energy policy analysis tool at the National Institute for Economic Research (Konjunkturinstitutet).
14. (2019) Expert in governmental Bio-gas commission.

Referee service

Ambio

B.E. Journal of Economics Analysis and Policy

Economics of Energy and Environmental Policy

Ecological Economics
Energies
Energy
Energy and Climate Change
Energy Economics
Energy Efficiency
Energy Journal
Energy Reports
Environment, Development and Sustainability
Environmental and Development Economics
Environmental and Resource Economics
Environmental Economics and Policy
Environmental Impact Assessment Review
Environmental Pollution
European Review of Agricultural Economics
Finnish Economic Papers
Forest Policy and Economics
International Review of Law and Economics
International Journal of Innovation and Sustainable Development
Journal of Cleaner Production
Journal of Environmental Economics and Management
Journal of Environmental Economics and Policy Studies
Journal of Environmental Management
Journal of Economic Behavior & Organization
Journal of Economic Dynamics and Control
Journal of Energy Efficiency
Journal of Economic Surveys
Journal of Forest Economics
Journal of Management Studies
Letters in Spatial and Resource Sciences
Managerial Finance
Metroeconomica
Natural Resource Modeling
Resource and Energy Economics
Review of Managerial Science
Scientific Reports
Singapore Economic Review
Sustainability
Sustainable Development

Editorial responsibilities

1. *Editor-in-Chief* (with S. Managi and M. Bostian), 2nd edition of the *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Elsevier (1st ed E-i-C J. Shogren, 2013). Planned publication summer 2023. Approx. 150 articles constituting the most comprehensive encyclopedia to date with contributions from the most prominent scholars in each sub-field. 2020 – 2023.
2. *Editorial board* of *Sustainability*, MDPI. 2020 - ...
3. *Co-editor* special issue in *Resources, Conservation & Recycling*: “Digital technology and energy sustainability impacts and policy needs” (2021). Editors: Chu Wei (managing editor), Renmin University; Chuan-zhong

Li, Uppsala University; Andreas Löschel, University of Munster;
Shunsuke Managi, Kyushu University; Tommy Lundgren, Swedish
University of Agricultural Sciences (SLU).

<https://doi.org/10.1016/j.resconrec.2021.105559>

Professional memberships

International Association of Energy Economics (IAEE)

Swedish Association for Energy Economics (SAEE)

European Association of Environmental and Resource Economics (EAERE)

Prizes and awards

1. **The Royal Skytteanska Society Prize** to promising young researcher in environmental economics (2004). Jury motivation: “*Tommy Lundgren is a promising young researcher who already established himself in the area of environmental economics, both nationally and internationally, by publishing articles in various prominent international peer-reviewed scientific journals*”.
2. **The Globe Award (2008)**. As a member of the research group Sustainable Investment Research Platform, SIRP, at Umeå School of Business (www.sirp.se), selected as winner of the *Best CSR Research* (corporate social responsibility research) “*for an outstanding and tangible research in the field of CSR*”. The prize was handed out by Her Royal Highness and Crown Princess Victoria Bernadotte.
3. **The Nordea Scientific Prize (2017)**. For excellent and policy-relevant work on applied policy assessment, applied to firm performance and CSR, and bioenergy, forests and climate issues.

Brief description of past and current projects

In total ~37 MSEK as principal investigator and > 22 MSEK in last 10 years. (1 EURO ~ 10 SEK).

1. ***The determinants of investment in the Swedish forest industry, 1996-1998.*** (~1 MSEK). Classical investment analysis of Swedish forest industry data, both aggregate and firm level. Wallander/Hedelius fund, Handelsbanken. (with Bengt Kriström).
2. ***Environmental investments – applications to the Swedish forest industry, 1998 - 2001.*** (~1 MSEK). Wallander/Hedelius fund, Handelsbanken. Modeling of the “green” firm, both theory and empirics (with Bengt Kriström).
3. ***Swedish timberland investments – assessment of investment performance, 2001 – 2002*** (FORMAS). (~2 MSEK) (with Peichen Gong) Evaluation of Swedish timberland as an investment vehicle. Financial econometrics methods used to analyze timberland returns, its characteristics, and relation to other investments alternatives.
4. ***The MountainMistra project, 2003-2006.*** (~4 MSEK) The research concerns regional economics and development in the Swedish mountain region. Methods used in analysis: social accounting matrix (SAM) and regional growth modeling and empirics. **Principal investigator** for one of three theoretical frameworks (measuring regional welfare), and also **principal investigator** in a sub-project concerning economic trends and economic development, in the Swedish mountain area.
5. ***Taxing waste incineration and the effects of a kilometer tax, 2005 – 2006.*** (~0.5 MSEK) **Principal investigator**. The royal Swedish academy

- of agriculture and forestry, KSLA. Seed money to investigate data status to possibly start up bigger project. (with Magnus Sjöström, National Institute of Economic Research).
6. ***Direct and indirect effects of environmental policy on the Swedish forest sector, 2006-2008*** (FORMAS). (~3.5 MSEK). **Principal investigator** (with Bengt Kriström). 1) Building a CGE-model of the forest sector, and 2) dynamic factor demand modeling of the Swedish industry and the forest sector. Policy impact analysis.
 7. ***The significance of transport costs in Swedish Forest Industry, 2006 – 2007***. (~0.5 MSEK). Effects on factor demand in Swedish manufacturing of a kilometer tax on heavy vehicles. (Joint project with Magnus Sjöström and Henrik Hammar, National institute of economic research, KI)
 8. ***Sustainable Investment Research Platform (SIRP), 2006-2012***. (~110 MKR in total of which ~7 MSEK on my project). MISTRA financed. Umeå School of Business and Economics (USBE). **Principal investigator** on sub-project concerning research on corporate social responsibility and environmental performance in Swedish industry. Theoretical modeling and empirical analysis using the economics/finance toolbox. For more information and output, see www.sirp.se.
 9. ***Bioenergy, the Climate, and Economics, 2008-2012*** (FORMAS). **Principal investigator**. (~4.5 MSEK). The economics of biofuels and the effects on climate and welfare of societies. CGE modeling and theoretical dynamic growth modeling with emphasis on environmental and climate issues associated with the increasing use of bioenergy.
 10. ***Impact of energy and environmental policy on sustainable development and competitiveness in Swedish industry, 2011-2013*** (Energimyndigheten – the Swedish Energy agency). (~6.5 MSEK). **Principal investigator**. Empirical investigation of productivity using state-of-the-art performance measurement techniques.
 11. ***On the economics of corporate social responsibility, 2013-2015*** (Torsten Söderbergs stiftelse). (~1 MSEK). **Principal investigator**. With Rickard Olsson (USBE) and Lammertjan Dam (Groningen). We explore the implications for CSR in terms of shareholder preferences, cost of capital, and causality.
 12. ***Energy use and energy efficiency in Swedish industry, 2014-2015***. (Energimyndigheten, the Swedish Energy Agency). (~4.5 MSEK). **Principal investigator**. A continuation of project 10 with particular focus on energy issues, especially how to measure energy efficiency, and effects of policy.
 13. ***Assessing the industrial energy rebound effect, 2015 – 2017***. (Energimyndigheten, the Swedish Energy Agency). (~3.5 MSEK). **Principal investigator**. Using SFA and DEA efficiency analysis to measure the rebound effect in four energy-intensive Swedish industry sectors.
 14. ***Bio4Energy, 2017-2020***. (~1.5 MSEK). **Principal investigator**. We examine the effects of a significantly increased demand for bioenergy from the forest. Assessment of the potential of increased out-take and spatial market effects with special focus on northern Sweden.
 15. ***Forte, 2021-2024***. (~3.6 MSEK). **Principal investigator**. The green transition and impact on industrial labor demand.