

CURRICULUM VITAE

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PLACE & DATE OF BIRTH: Edinburgh, March 7, 1947

NATIONALITY: Norwegian and British

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EDUCATION:

Candidate of Economics, University of Oslo, June 1972
Lic. Philos., University of Oslo, June 1975
Dr. Philos., University of Oslo, June 1978

CURRENT POSITION:

Professor of Economics, Department of Economics, University of Oslo (since 1981).

Scientific Advisor of the *Frisch Centre of Economic Research* (<http://www.frisch.uio.no>)

Member of the board of *Health Economics Research Programme at the University of Oslo*
(<http://www.hero.uio.no/>)

Member of the executive committee of the *International Economic Association*
(<http://www.iea-world.com/>)

Member of the Editorial Board of *Environmental and Resource Economics*
(<http://www.wkap.nl/journalhome.htm/0924-6460>)

Associate Editor of *Energy Economics*

PREVIOUS POSITIONS AND VISITS:

Editor (joint with Charles Kolstad) of *Resource and Energy Economics*. 2002-2005.

Leader of a research group in Environmental Economics at the Centre for Advanced Study at the Norwegian Academy of Science and Letters, August 2005 to June 2006.

Visiting Researcher at the University of California, Santa Barbara (Dept. of Economics) fall 1999 and fall 2001.

Visiting Researcher at the University of California, Berkeley (Dept. of Agricultural and Resource Economics) fall 1995 and fall 1996.

Senior Researcher at CICERO (Center for International Climate and Energy Research, Oslo) from August 1991 to December 1992.

Consultant at OECD, June to August 1988.

Special Consultant at Norges Bank (The Central Bank of Norway), August 1984 to July 1985.

Special Consultant at The Ministry of Finance in Norway, January to September 1978.

Visiting Associate Professor at Department of Economics, University of California, San Diego, January to July 1982.

Visiting Scholar at Department of Economics, M.I.T., July 1976 to May 1977.

Assistant and Associate Professor at the University of Oslo.

PRIZES AND REWARDS:

The Eric Kempe Award in Environmental and Resource Economics, 2000 (from the European Association of Environmental and Resource Economics).

The Research Prize of the University of Oslo, 1997.

The 1996 Award for Outstanding Contributions to the Profession of Energy Economics and to its Literature (from the International Association for Energy Economics).

CURRENT RESEARCH INTERESTS:

Environmental and resource economics
Health economics

ONGOING RESEARCH:

Environmental and Resource Economics:

Climate agreements: emissions quotas versus technology agreements (with Rolf Golombek). Memorandum from the Department of Economics, no 21/2006
(<http://www.oekonomi.uio.no/memo/memopdf/memo2106.pdf>)

Endogenous technology and tradable emission quotas (with Rolf Golombek). FEEM Working Paper 2006:42 and Memorandum from the Department of Economics, no 3/2006
(<http://www.oekonomi.uio.no/memo/memopdf/memo0306.pdf>)

Electricity prices in a mixed thermal and hydropower system, Memorandum from the Department of Economics, no 28/2004
(<http://www.oekonomi.uio.no/memo/memopdf/memo2804.pdf>)

Properties of a non-competitive electricity market dominated by hydroelectric power (with Finn F Førsund), FEEM Working Paper 2004:86 and Memorandum from the Department of Economics, no 7/2004
(<http://www.oekonomi.uio.no/memo/memopdf/memo0704.pdf>)

Health Economics:

Concerns for equity and the optimal co-payments for publicly provided health care, CESifo Working Paper No. 1620 (December 2005)

PUBLISHED RESEARCH (IN ENGLISH):

Optimal Disease Eradication (with Scott Barrett), *Environment and Development Economics*, forthcoming.

What should (public) health insurance cover?, *Journal of Health Economics*, forthcoming.
Available online: <http://linkinghub.elsevier.com/retrieve/pii/S0167629606000932>

Quick fixes for the environment: Part of the solution or part of the problem? (with T. Sterner, M. Troell, J. Vincent and others), *Environment* 48, no 10, pp. 20-27.

Building Resilience and Adaptation to Manage Arctic Change (with F.S. Chapin and others), *AMBIO: A Journal of the Human Environment*. Vol. 35, no. 4, pp. 198-202, Jun 2006.

Climate agreements and technology spillovers – a modeling approach (with Rolf Golombek), *Aquatic Ecosystem Health & Management* 9, 319-325 (2006)

Cost-effectiveness analysis in the health sector when there is a private alternative to public treatment, *CESifo Economic Studies*, September 2006; 52: 500 - 512.

Genetic testing in competitive insurance markets with repulsion from chance: A welfare analysis (with Tor Iversen, Tore Nilssen and Jon Vislie), *Journal of Health Economics*, 25, 847-860 (2006)

Second-best Climate Agreements and Technology Policy (with Rolf Golombek), *Advances in Economic Analysis & Policy*: Vol. 6: No. 1, Article 1 (2006).

<http://www.bepress.com/bejeap/advances/vol6/iss1/art31>

Global warming and other transboundary environmental problems (with Rolf Golombek); in Olav Bjerkholt and Xizhe Ping (Eds.): *Frontier Environmental Issues*, Fudanpress, 2005

Climate policy with technological spillovers (with Rolf Golombek), *Environmental and resource economics* 31, 201–227 (2005).

The triple inefficiency of uncoordinated environmental policies, *Scandinavian Journal of Economics* 107, 157-173 (2005)

Interregional interactions and population mobility, *Journal of Economic Behaviour and Organization* 55, 419-433 (2004).

Unilateral Emission Reductions and Cross-Country Technology Spillovers (with Rolf Golombek), *Advances in Economic Analysis & Policy*: Vol. 4: No. 2, Article 3 (2004).

<http://www.bepress.com/bejeap/advances/vol4/iss2/art3>

“Transboundary environmental problems with mobile but heterogeneous populations” (with Perry Shapiro), *Environmental and Resource Economics* 27, No. 3 pp 265-272 (2004).

“Public health care with waiting time: the role of supplementary private health care” (with Erik Magnus Sæther), *Journal of Health Economics* 22, 599-616 (2003).

“Allocating health care resources when people are risk averse with respect to life time”, *Health Economics* 12, 601-608 (2003)

“Efficient use of health care resources: The interaction between improved health and reduced health related income loss”, *International Journal of Health Care Financing and Economics* 2, 285-296 (2002).

"Population Mobility and Transboundary Environmental Problems" (with Perry Shapiro), *Journal of Public Economics* 87, 1013-1024 (2003).

"Taxes versus quotas for a stock pollutant" (with Larry Karp), *Resource and Energy Economics* 24 (4), 367-384 (2002)

“Allocating greenhouse gas emissions among countries with mobile populations”, in J.A.List and A. De Zeeuw (eds.): *Recent Advances in Environmental Economics*, Edward Elgar 2002

- "Genetic Testing When There is a Mix of Compulsory and Voluntary Health Insurance" (with Tor Iversen), *Journal of Health Economics* 21, 253-270 (2002).
- "Taxes and quotas for a stock pollutant under multiplicative uncertainty" (with Larry Karp), *Journal of Public Economics* 82, pp. 91-114 (2001)
- "International trade and the environment: How to handle carbon leakage", in *Frontiers of Environmental Economics*, Folmer, Gabel, Gerkin and Rose, eds, Edward Elgar 2001.
- "Transboundary Environmental Problems", in Jeroen v.d. Bergh (ed.): *Handbook of environmental and resource economics* (ch. 32, pp 472-487), Edward Elgar Publishing Ltd, 1999.
- "Emission taxes versus other environmental policies", *Scandinavian Journal of Economics*, 100, 79-104 (1998).
- "Coordination of Environmental Policy for Transboundary Environmental Problems?", *Journal of Public Economics* 66, 199-224, 1997.
- "How Should International Greenhouse Gas Agreements Be Designed?", in P. Dasgupta, K.-G. Maler and A. Vercelli (eds.): *The Economics of Transnational Commons* (pp. 172-191), Clarendon Press, Oxford, 1997.
- "CO₂ and the Greenhouse Effect: A Game-Theoretical Exploration", in P. Dasgupta and K.-G. Maler (eds.): *The Environment and Emerging Development Issues* (Vol. 2, pp. 339-367), Clarendon Press, Oxford, 1997.
- "Environmental Policy with Endogenous Plant Locations", *Scandinavian Journal of Economics* 99, 241-259, 1997.
- "Incentives to participate in an international environmental agreement", (with Kerstin Schneider), *Environmental and Resource Economics* 9, 153-170, 1997.
- "International Coordination of Environmental Taxes", in C. Carraro (ed.): *New Directions in the Economic Theory of the Environment*, Cambridge University Press, 1997.
- Depletion of Fossil Fuels and the Impacts of Global Warming (with Snorre Kverndokk), *Resource and Energy Economics* 18, 115-136, 1996.
- "Should a carbon tax be differentiated across sectors?" *Journal of Public Economics* 59 (1996), 17-32.
- "The environmental costs of greenhouse gas emissions" (with Ivar Isaksen), in *Control and Game-Theoretical Models of the Environment* (red: C. Carraro og J.A. Filar), Birkhauser, 1995.

- "Efficient incomplete international climate agreements", (with Rolf Golombek and Cathrine Hagem), *Resource and Energy Economics* 17 (1995), 25-46. Also published in A. Ulph (ed.): *Environmental Policy, International Agreements, and International Trade*, Oxford University Press, 2001
- "Efficient abatement of different greenhouse gases" (with Ivar Isaksen), in T. Hanisch (ed.), *Climate Change and the Agenda for Research*, Westview Press, 1994.
- "The design of a carbon tax in an incomplete international climate agreement", (with R. Golombek and C. Hagem) in C. Carraro (ed.) *Trade, Innovation, Environment*, Kluwer Academic Publishers, 1994.
- "Efficient Climate Policy in the Presence of Free Riders", *Journal of Environmental Economics and Management* 27 (3), pp. 259-274 (November 1994). Also published in A. Ulph (ed.): *Environmental Policy, International Agreements, and International Trade*, Oxford University Press, 2001
- "Stabilizing CO₂ Emissions in Europe: Individual Stabilization versus Harmonization of Carbon Taxes", in Carlo Carraro and Domenico Siniscalco (eds.): *The European Carbon Tax: An Economic Assessment*, Kluwer Academic Publishers, 1993.
- "Cost-effective and efficient international environmental agreements", in *International Challenges* 13 (2), 36-46 (1993).
- "Intertemporal properties of an international carbon tax", *Resource and Energy Economics* 15 (1993), 51-70.
- "Harmonization of Carbon Taxes in International Climate Agreements", *Environmental and Resource Economics*, 3, 221-232 (1993).
- "The Role and Design of a Carbon Tax in an International Climate Agreement", in *Climate Change: Designing a Practical Tax System*, OECD, Paris, 1992.
- "Carbon taxes: an international tax or harmonized domestic taxes?", *European Economic Review* 36 (1992), 400-406.
- "The oil market and international agreements on CO₂ emissions" (with K. Berger, Ø. Fimreite and R. Golombek), *Resources and Energy* 14 (1992), 315-336.
- "Principles for international climate corporation", in T. Hanisch (ed.) *A Comprehensive Approach to Climate Change*, CICERO, Oslo 1991.
- "Emission taxes in a dynamic game of CO₂ emissions", in R. Pethig (ed.): *Conflict and Cooperation in Managing Environmental Resources*, Springer Publishing House, 1992

- "International environment conventions: the case of uniform reductions of emissions", *Environmental and Resource Economics* 2, 141-159 (1992).
- "Efficient international agreements for reducing emissions of CO₂", *The Energy Journal* 12, 93-107 (1991)
- "Union wage policy: The importance of labour mobility and the degree of centralization", *Economica* 58, 139-153 (1991)
- "Global Environmental Problems: The effects of unilateral actions taken by one country", *Journal of Environmental Economics and Management* 20, 55-70 (1990)
- "The resource rent for Norwegian natural gas" (with R. Golombek), in O.Bjerkholt, Ø.Olsen and J.Vislie (eds.) *Recent Modelling Approaches in Applied Energy Economics*, Chapman and Hall, London 1990.
- "The European gas market as a bargaining game" (with B. Holtmark and J. Vislie), in O.Bjerkholt, Ø.Olsen and J.Vislie (eds.) *Recent Modelling Approaches in Applied Energy Economics*, Chapman and Hall, London 1990.
- Comment on E.S. Phelps, "Effects of productivity, total domestic-product demand and 'incentive wages' on unemployment in a nonmonetary customer-market model of the small economy", *Scandinavian Journal of Economics* 92 (1990), 369-374.
- "Local versus central wage bargaining with endogenous investments", *Scandinavian Journal of Economics* 92, 453-469 (1990).
- "Efficiency wages and income taxes", *Journal of Economics* (1990)
- "Work sharing, employment, and shift work" (with Lars Calmfors), *Oxford Economic Papers* 41 (1989), 758-773
- "Efficiency wages and local versus central wage bargaining", *Economics Letters* 30 (1989), 175-179.
- "Profit-sharing, unions and investments" (with Karl O. Moene), *Scandinavian Journal of Economics* 90 (1988), 493-505.
- "Work sharing and overtime" (with Lars Calmfors), *Scandinavian Journal of Economics* 90 (1988), 45-62.
- "The supply side of RIKMOD: Short run producer behaviour in a model of monopolistic competition" (with Ragnar Nymoene), *Economic Modelling* 5 (1988), 58-70.
- "Wage formation in Norwegian manufacturing: An empirical application of a theoretical bargaining model" (with Ragnar Nymoene), *European Economic Review* 32 (1988),

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- "Can shorter working time reduce unemployment?", in C.-H. Siven (ed): *Unemployment in Europe*, Timbro, Stockholm, 1987.
- "Effects of Reduced Working Time in an Economy where Firms Set Wages" (with Bent Vale), *European Economic Review* 30 (1986), 1097-1105.
- "Supply security and Import diversification of Natural Gas" (with Steinar Strøm), in R. Golombek, J. Vislie and M. Hoel (eds.): *Natural gas markets and contracts*, North-Holland 1987.
- "The Relationship between the Price of Natural Gas and Crude Oil: Some Aspects of Efficient Contracts" (with Rolf Golombek), in R. Golombek, J. Vislie and M. Hoel (eds.): *Natural gas markets and contracts*, North-Holland 1987.
- "Bilateral Monopoly and Exhaustible Resources" (with Jon Vislie), in R. Golombek, J. Vislie and M. Hoel (eds.): *Natural gas markets and contracts*, North-Holland 1987.
- "Perfect Equilibria in Sequential Bargaining Games with Non-Linear Utility Functions", *Scandinavian Journal of Economics* 88 (1986), 383-400.
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- "Future Conditions and Present Extraction: A Useful Method in Natural Resource Economics", *Resources and Energy* 5 (1983), 303-311.
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- "Supply Functions for Outputs and Demand Functions for Inputs in the Short and Long Run under Uncertainty", *Scandinavian Journal of Economics* 85 (1983), 53-60.
- "Short- and Long-Run Effects of a Tax Cut in an Open Economy with a Sticky Real Wage", *Scandinavian Journal of Economics* 84 (1982), 555-569.
- Comment on L. Calmfors: "Employment Policies, Wage Formation and Trade Union Behavior in a Small Open Economy", *Scandinavian Journal of Economics* 84 (1982), 375-378.

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- "Resource Extraction by a Monopolist with Influence over the Rate of Return on Non-Resource Assets", *International Economic Review* 22 (1981), 147-157.
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- "Extermination of Self-Reproducible Natural Resources under Competitive Conditions", *Econometrica* 46 (1978), 219-224.
- "The Long-Run Rate of Growth in an Economy with Resource Scarcity", *Scandinavian Journal of Economics* 80 (1978), 199-208.
- "Resource Extraction, Uncertainty and Learning", *Bell Journal of Economics* 9 (1978), 642-645.
- "Resource Extraction and Recycling with Environmental Costs", *Journal of Environmental Economics and Management* 5 (1978), 220-235.
- "Resource Extraction when a Future Substitute has an Uncertain Cost", *Review of Economic Studies*, 45 (1978), 637-644.
- "Resource Extraction, Substitute Production, and Monopoly", *Journal of Economic Theory*, 19 (1978), 28-37.
- "Extraction of an Exhaustible Resource under Uncertainty", Verag Anton Hain, Meisenheim an Glan, 1978. (No. 39 in the Series "Mathematical Systems of Economics").
- "Resource Extraction under some Alternative Market Structures", Verag Anton Hain, Meisenheim an Glan, 1978. (No. 39 in the Series "Mathematical Systems of Economics").

"A Note on the Estimation of the Elasticity of the Marginal Utility of Consumption",
*European Economic Review*_6 (1975), 411-415.