

**Director General Anni Huhtala**

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Director General, Dr Anni Huhtala has a PhD degree from University of California, Berkeley, and she is adjunct professor (docent) in environmental and resource economics at Aalto University. Her research agenda has evolved from elicitation of citizen preferences to investigation of impacts of risks, uncertainty, and intertemporal time-frames on individual and societal decision-making in environmental, energy and climate policy; applications cover valuation of public goods, examination of policy instruments (taxes, subsidies, standards, mandates etc) and distribution of income including dynamic optimization, cost-benefit and welfare analyses. She has extensive experience in international research co-operation, management and evaluation of economic and interdisciplinary research.

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**Education**

University of California at Berkeley, USA 1994 **Ph.D.** Agricultural and Resource Economics  
University of Helsinki, Finland 1989 **M.Sc.** Economics

**Leadership and media training**

MiL Institute, Stockholm, Sweden fall 1998-spring 1999, Training for Head of Division  
Nordiska Folkhögskolan, Kungälv, Sweden fall 1982-spring 1983, Studies in Media & Journalism

**Linguistic skills**

Finnish (native), Swedish (nearly fluent), English (fluent)

**Current positions**

*Director General*, VATT Institute for Economic Research (2015/09- fixed term)  
*Docent in Environmental and Resource Economics*, Helsingin kauppakorkeakoulu/ Aalto University (2000-)

**Previous positions**

*Research Director*, VATT Institute for Economic Research (2011/05- 2015/08)  
*Professor of Environmental Economics*, MTT Agrifood Research Finland (2002/05-2011/04)  
*Head of Division*, Konjunkturinstitutet/Nat. Inst. of Econ. Research, Sweden (1998/08-2002/04)  
*Junior Fellow*, Academy of Finland/ Finnish Forest Research Institute (1996/08-1998/07)  
*Acting Professor of Economics*, University of Lapland (1995/08-1996/07)

*Graduate Student, UC Berkeley (1991-1994)*

*Graduate Student, Finnish Postgraduate Program in Economics (1990)*

*Research Associate, Tiedekauppa r.y./Ministry of the Environment (1988-1989)*

*Research Assistant, Pellervo Economic Research Institute (1986-1988 part-time)*

*Secretary and Treasurer, Finnish Society of Economic Research (1987 part-time)*

### **Visits**

*Visiting Scholar, UC Berkeley, Department of Agricultural and Resource Economics and Policy, September-October 2014*

*Visiting Scholar, McGill University, Department of Economics, January-February 2009*

*Visiting Scholar, UC Berkeley, Department of Agricultural and Resource Economics and Policy, October-December 2007*

*Visiting Researcher, United Nations University, World Institute for Development Economics Research (UNU-WIDER), January-May 2007*

*Visiting Researcher, Tilburg University, Department of Economics, September-December 2006*

*Visiting Researcher, Umeå University, Department of Economics, September 1997-February 1998*

### **Major research funding from external sources (past five years)**

Academy of Finland: “Environmental threats in energy production: Implications of perceived risks and time preferences for social welfare” (2011-2015), Research Grant of 350,000 EUR

Advisory Board for Sectoral Research: “Protection of the Baltic Sea: Benefits, costs and policy measures, PROBAPS” (2009-2012) (with University of Helsinki and Finnish Environment Institute/SYKE and with partial co-funding and partners from the 9 Baltic Sea countries), Research Grant of 1,000,000 EUR

### **Committees, councils, and review panels for applications of funding**

Maj and Tor Nessling Foundation:

Member of scientific review panel (2015/01-)

Swedish Environment Protection Agency/Naturvårdsverket:

Member of council of environmental research (2016/03-)

Member of scientific review panel (2013/07-09)

Linnaeus University:

Member of expert group for strategic research in the area of environment (2012/12- 2013/03)

The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning/FORMAS:

Marine Pollution Panel, reviewer (2012/12-2013/02)

Climate Change Panel, reviewer (2012/06-10)

Reviewer (2009/08-09)

Member of Expert Panel for Economy, Society and Regional Development (2005/05-2008/11)

Swedish Ministry of Finance:

Member of expert group for environmental studies (2010/05-2012/04)

European Commission, RTD/I Environment:

Evaluator (2010/12-2011/01 and 2010/02-03)

Research Council of Norway:

Reviewer (2008/08-10)

Finnish Ministry of Finance:

Member of committee for evaluation of research at the Government Institute for Economic Research, VATT (2007/05-08)

Swedish University of Agricultural Sciences:

Member of the Review Panel for Evaluation of Research (2007/05-10)

The Finnish Cultural Foundation:

Member of the Review Panel for Agriculture and Forestry (2004/11-2005/01)

### **Reviewer, opponent**

University of Gothenburg: Reviewer, Docent (2014/11-2015/02)

Umeå University: Reviewer, Assistant Professor (2014/09-12)

University of Copenhagen: Reviewer, Professor (2013/01-04)

Swedish University of Agricultural Sciences:

Member, grade committee, PhD examination (2014/02, 2012/05, 2008/06, 2007/06)

Reviewer, Associate Professor (2011/12, 2003/08)

University of Oulu:

Reviewer, Associate Professor (2012/01)

Opponent, PhD defense (1997/08)

University of Helsinki:

Reviewer, PhD thesis (2011/10, 2007/11-2008/09)

Opponent, PhD defense (2010/03, 1999/09)

Reviewer, Licentiate thesis (2003/11)

Mid Sweden University: Reviewer, Professor (2009/05-10)

Helsinki School of Economics: Reviewer, PhD thesis (2009/05-10)

National Environmental Research Institute, Denmark: Reviewer, Professor (2008/10- 2009/01)

Dalarna University College: Reviewer, Professor (2007/02-08)

University of Joensuu: Opponent, PhD defense (2002/05)

### **Professional service for scientific journals**

Member of the editorial board, *Agricultural and Food Science* (2004-2009), *European Review of Agricultural Economics* (2015-)

Editorial secretary, *Finnish Economic Papers* (1987/02-08)

Referee for *Ambio*, *Ecological Economics*, *Environmental and Resource Economics*, *Environmental Science and Policy*, *Environment and Development Economics*, *European Journal of Operational Research*, *European Review of Agricultural Economics*, *Journal of Agricultural Economics*, *Journal of Economics*, *Journal of Economic Dynamics and Control*, *Journal of Environmental Economics and Management*, *Journal of Environmental Management*, *Journal of Environmental Planning and Management*, *Journal of Forest Economics*, *Journal of Public Economics*, *Resource and Energy Economics*; *Resources, Conservation and Recycling*

### **Other positions of trust in academia**

The Finnish Society of Sciences and Letters (Societas Scientiarum Fennica): Member (by invitation), 2016 -

European Academies Science Advisory Council (EASAC): Member of the EASAC Working Group on the Circular Economy March 2015 -

European Association of Environmental and Resource Economists (EAERE): Country Representative for Finland, 2012-2015

EAERE: Member of Scientific Program Committee, annual conferences 2008, 2009, 2011, 2012, 2015

European Association of Agricultural Economists (EAAE): Member of Scientific Program Committee for the triennial conferences 2005, 2008

International Association of Agricultural Economists (IAAE): Member of Scientific Program Committee for the world conference 2011

World Congress of Environmental and Resource Economists (WCERE): Member of Scientific Program Committee 2010, 2014

### **Selected publications**

#### **I Articles in refereed international scientific journals**

Artell, J. and Huhtala, A. (2016) What are the benefits of the Water Framework Directive? Lessons learnt from preference revelation for policy design, *Environmental and Resource Economics* (forthcoming, available online)

Hyytiäinen, K., Ahlvik, L., Ahtiainen, H., Artell, J., Huhtala, A. and Dahlbo, K. (2015) Policy goals for improved water quality in the Baltic Sea: When do the benefits outweigh the costs? *Environmental and Resource Economics* 61(2): 217-241

Ahtiainen, H., Artell, J., Czajkowski, M., Hasler, B., Hasselström, L., Huhtala, A., Meyerhoff, J., Smart, J.C.R., Söderqvist, T., Alemu, M., Angeli, D., Dahlbo, K., Fleming-Lehtinen, V., Hyytiäinen, K., Karlöseva, A., Khaleeva, Y., Maar, M., Martinsen, L., Nömmann, T., Pakalniete, K., Oskolokaite, I. and Semeniene, D. (2014) Benefits of meeting nutrient reduction targets for the Baltic Sea – results from a contingent valuation study in the nine coastal states, *Journal of Environmental Economics and Policy* 3: 278-305.

Hyytiäinen, K., and Huhtala, A. (2014) Combating eutrophication in coastal areas at risk for oil spills, *Annals of Operations Research* 219: 101-121.

Sipiläinen, T. and Huhtala, A. (2013) Opportunity costs of providing crop diversity in organic and conventional farming: Would targeted environmental policies make economic sense? *European Review of Agricultural Economics* 40: 441-462.

Huhtala, A. and Lankia, T. (2012) Valuation of trips to second homes: do environmental attributes matter? *Journal of Environmental Management and Planning* 55: 733-752.

Huhtala, A. (2010) Income effects and the inconvenience of private provision of public goods for bads: the case of recycling in Finland, *Ecological Economics* 69: 1675-1681.

Vesterinen, J., Pouta, E., Huhtala, A. and Neuvonen, M. (2010) Impacts of changes in water quality on recreation behavior and benefits in Finland, *Journal of Environmental Management* 91: 984-994.

- Laukkanen, M., Ekholm, P., Huhtala, A., Pitkänen, H., Kiirikki, M., Rantanen, P. and Inkala, A. (2009) Integrating ecological and economic modelling of eutrophication: Towards optimal solutions for a coastal area suffering from sediment release of phosphorus, *Ambio* 34: 225-235.
- Huhtala, A. and Pouta, E. (2009) Benefit incidence of public recreation services – Have the winners taken almost all? *Environmental and Resource Economics* 43: 63-79.
- Hyytiäinen, K., Ahtiainen, H., Heikkilä, J., Helin, J., Huhtala, A., Iho, A., Koikkalainen, K., Miettinen, A., Pouta, E. and Vesterinen, J. (2009) Integrated simulation model to evaluate national policies for agricultural nutrient abatement in the Baltic Sea, *Agricultural and Food Science* 18, 3-4: 440-459.
- Kitti, M., Heikkilä, J. and Huhtala, A. (2009) 'Fair' policies for the coffee trade – protecting people or biodiversity? *Environment and Development Economics* 14: 739-758.
- Eerola, E. and Huhtala, A. (2008) Voting for environmental policy under preference and income heterogeneity *American Journal of Agricultural Economics* 90: 256-266.
- Laukkanen, M. and Huhtala, A. (2008) Optimal management of a eutrophied coastal ecosystem: balancing agricultural and municipal abatement measures *Environmental and Resource Economics* 39: 139-159.
- Huhtala, A. and Pouta, E. (2008) User fees, equity and the benefits of public outdoor recreation services, *Journal of Forest Economics* 14: 117-132.
- Huhtala, A. and Marklund, P.O. (2008) Stringency of environmental targets in animal agriculture: shedding light on policy with shadow prices, *European Review of Agricultural Economics* 35: 193-217.
- Huhtala, A. and Samakovlis, E. (2007) Flows of air pollution, ill health and welfare, *Environmental and Resource Economics* 37: 445-463.
- Samakovlis, E., Huhtala, A., Bellander, T. and Svartengren, M. (2005) Valuing health effects of air pollution – Focus on concentration-response functions, *Journal of Urban Economics* 58: 230-249.
- Huhtala, A. (2004) What price recreation in Finland? - A contingent valuation study on non-market benefits of public outdoor recreation areas, *Journal of Leisure Research* 36: 23-44.
- Huhtala, A., Toppinen, A., and Boman, M. (2004) When the theory is not enough – valuation of forest resources with “efficiency” prices in practice, *Journal of Forest Economics* 9: 205-222.
- Huhtala, A., and Samakovlis, E. (2002) Does international harmonization of environmental policy Instruments make economic sense? *Environmental and Resource Economics* 21: 259-284.
- Huhtala, A. (2000) Binary choice valuation studies with heterogeneous preferences regarding the program being valued, *Environmental and Resource Economics*, 16: 263-279.
- Huhtala, A. (1999) Optimizing production technology choices: Conventional production vs. recycling, *Resource and Energy Economics* 21: 1-18.
- Huhtala, A. (1999) How much do money, pollution, and inconvenience matter? Analysing households' demand for large-scale recycling and incineration, *Journal of Environmental Management* 55: 27-38.
- Huhtala, A. (1997) A post-consumer waste management model for determining optimal levels of recycling and landfilling", *Environmental and Resource Economics* 10: 301-314.

## **II Articles in international edited volumes**

Huhtala, A. (editor with 26 co-authors) (2009) The economics of the state of the Baltic Sea. Pre-study assessing the feasibility of a cost-benefit analysis of protecting the Baltic Sea ecosystem, The publications of Advisory Board for Sectoral Research and Subcommittees 2:2009.

Heikkilä, J., Huhtala, A. and M. Kitti (2008) Agrobiodiversity in poor countries - price premiums deemed to miss multifaceted targets? in A. Kontoleon, U. Pascual and M. Smale (eds.): *Agrobiodiversity, Conservation and Economic Development*, Routledge Explorations in Environmental Economics, Taylor&Francis Group.

Huhtala, A. and Laukkanen, M. (2007) Ecological-economic modelling of optimal abatement measures in H. Pitkänen and P. Tallberg (eds): *Searching efficient protection strategies for the eutrophied Gulf of Finland: the integrated use of experimental and modelling tools (SEGUE)*, Final Report, Finnish Environment 15/2007.

Huhtala, A. (2005) Incorporating economics into P risk assessment in *Tools for assessing phosphorus loss from Nordic agriculture*, TemaNord 2005:583: 87-92.

Huhtala, A. and Pouta, E. (2004) Welfare incidence of subsidized recreation services in Finland. In H. Pajuoja and H. Karppinen (eds.). *Scandinavian Forest Economics* No. 40., 135-144.

Huhtala, A. (1998) Finland: Forestry, Energy Policy and Restructuring in H. Aage (ed.) *Environmental Transition in the Nordic and Baltic Countries*, Edward Elgar Publishing, Cheltenham.

Huhtala, A. (1995) Analyzing Demand for Alternative Waste Disposal Services: Large-Scale Recycling and Incineration Compared in A. Lunnan (ed.) *Resirkulering og energimessig utnyttelse av avfall*, Energiforskningen, Oslo.

## **III Scientific monographs**

Huhtala, A. (1994) "Is Environmental Guilt a Driving Force? An Economic Study on Recycling", Ph.D. thesis, Department of Agricultural and Resource Economics, University of California, Berkeley, December.

## **IV International Conferences (past five years)**

"Finland's Challenges for Growth – Are They Different?"- seminar at the Ministry of Finland, commentary on the presentation by Chief Economist Catherine L. Mann, OECD, January 2016

"Quantifying the Social Costs of Nuclear Power: Perceived Risk of Accident at Nuclear Power Plant", USAEE/International Association for Energy Economics North American Conference, Pittsburgh, October 2015

"Revealed preferences for water quality: What is the "true" value of the European Water Framework Directive?" Annual Conference of the European Association of Environmental and Resource Economists, Helsinki, June 2015

"Dimming Hopes for Nuclear Power: Perceptions of Risk as Shadow Costs, European Economic Association Congress, Toulouse, August 2014

"What are the gaps and needs to ensure better integration of socioeconomics?", invited presentation for 10th Meeting of the FACCE-JPI Scientific Advisory Board, London, UK, September 2013.

“Is water quality capitalized into values of recreational properties? Lessons learnt for policy design”, 20<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists, Toulouse, France, June 2013.

“The role of subjective risks in voting on energy policy”, invited seminar, Utrecht School of Economics, the Netherlands, March 2013.

“Risk preferences revealed in vote on nuclear power in the Finnish parliament: social costs of carbon vs. nuclear waste”, 12<sup>th</sup> IAEE European Energy Conference, Venice, Italy, September 2012.

“Opportunity costs of providing crop diversity in organic and conventional farming”, International Congress of Agricultural Economists, Foz do Iguacu, Brazil, August 2012.

“Profitability of nutrient abatement measures in coastal areas at risk for oil spills”, 18<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists, Rome, Italy, 29 June – 2 July 2011.