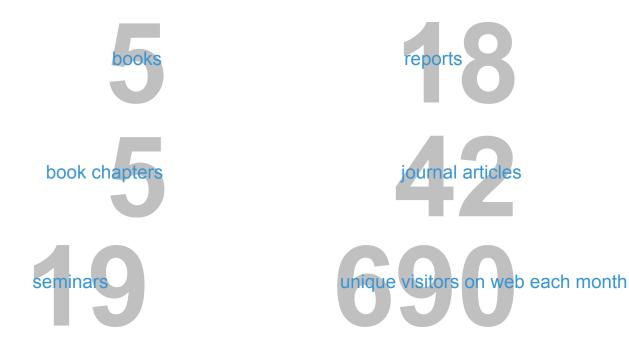
CERE





Content

Research Director's Welcome	4
About CERE	6
The Ulvön Conference	8
A Journal Article	10
A CERE Working Paper	12
Selection of Ongoing Projects	13
Board Members	14
Personnel and Visitors	16
Publications and Activities 2017-2018	18
Professors	18
Associate Professors	23
Assistant Professors	26
Graduate Students	33
Associates of CERE	36



Research Director's Welcome

A busy 2018 as ever at CERE. We welcomed Professor Francisco Aguilar, Dr. Marco Persichina, Dr. Amare Teklay and P.h.D. student, Xiao Hu. Some of our post-docs left for high-profile positions. Klarizze Puzon went to Osaka University as Assistant Professor and Erlend Dancke Sandorf won a prestigious Marie Curie Scholarship with the University of Stirling. Jinggang Guo successfully defended his P.h.D. thesis at the Department of Forest Economics and went to University of Madison, Wisconsin for a post doc.

On the research front a number of new projects were started. In addition, we were awarded a quite substantial assignment from the Government on the so-called ESAB-program. This entails analyzing the benefits and costs of swapping state-forprivate forests as a way to reach environmental goals. Thomas Broberg organized a well-attended workshop on the Economics of Waste targeting a broad audience. The 25th Ulvön conference on Environmental Economics, together with WONV (a network for researchers specializing in valuing non-market goods and services), attracted a large audience. The meeting has become so large so that there were, for the first time, parallel sessions; Thomas Broberg, Tommy Lundgren and Lars Persson again put together an excellent meeting. Oben Bayrak won a prize for best P.h.D. course for his course in Behavioral Economics.

The Journal of Forest Economics changed publisher and is as of 2019, with Now Publishers. The Sören Wibe Prize was awarded to Jussi Lintunen and Jussi Uusivuori for their 2016 paper On the Economics of Forests and Climate Change: Deriving Optimal Policies, Journal of Forest Economics 24, 130-156.

The Board and our Advisory Board provided, as is their wont, invaluable service for the Centre during the year.

Finally, CERE appointed a new Research Director, Runar Brännlund and Deputy Director Francisco Aguilar. They will be spearheading the Centre as of 2019. After 9 years as Research Director, I can look back to a quite remarkable development. I think we can now safely say that CERE is an established and well-respected research Centre in the field of environmental and resource economics. The main reason is plain and simple: we have been able to recruit a significant number of talented people that have contributed to the development of CERE in many positive ways. CERE remains committed to working on policy issues and provide policy advice supported by cutting edge theory and empirics. The new leadership will, I am sure, propel the Centre into being an ever more important resource for those who seek to learn more about the husbandry of our natural environments and resources.

Bengt Kriström





Top from left, new CERE members': Amare Teklay Hailu, Francisco X. Aguilar and Marco Persichina.

Middle from left: Xiao Hu (new member), Jingang Guo (defended his thesis), Runar Brännlund (journal editor), Alrun Albrecht (publicist from Elsevier), Jussi Uusivuori and Jussi Lintunen (award winners' 2018), Åsa Löfström (family representative), Peichen Gong and, Ola Carlén (journal editors').

Bottom left from the left: Jussi Lintunen and Jussi Uusivuori.

photos: Mona Bonta Bergman

About CERE

Umeå Campus has for decades been an important national and international node for research and education in environmental and natural resource economics. In the forefront there has been two departments working in close cooperation; the Department of Forest Economics at the Swedish University of Agricultural Sciences (SLU) and the Department of Economics, Umeå School of Business, Economics and Statistics (USBE), at Umeå University (UmU). After many years of consideration, it was finally decided in 2009, to further strengthen this collaboration by joining these two separate, but interlinked, research groups in resource and environmental economics by creating a research centre.

The main objectives of CERE are to:

Link research groups from different departments and the two universities;

Provide seminars and workshops within the field of environmental, energy and resource economics;

Establish a platform for a creative and strong research environment within the field;

Develop higher education in environmental, energy and resource economics.

The creation of CERE, the Centre for Environmental and Resource Economics, was achieved by pooling researchers from the two above mentioned departments, along with economic historians that have focused their research on the historical aspects of resource and energy usage, as well as on environmental impacts. They are part of the Department of Economic History (UmU). Together, the researchers at CERE embrace research areas as diverse as non-market valuation, climate policy, forest economics, historical analysis of sustainable development, environmental and energy efficiency analysis, just to mention a few examples of recent research.

The year 2018 was Bengt Kriström's final year as the Research Director of CERE with the present Director Runar Brännlund as his deputy. The Scientific Secretary of 2018 was at the beginning of the year, Associate Professor Tommy Lundgren, but in July, Assistant Professors' Thomas Broberg and Jurate Jaraite-Kazukauske took over. Over the course of the year, 6 professors, 3 associate professors, 15 assistant professors or post-docs, 5 CERE associates, 10 graduate students and 1 communication officer – in total 40 persons belonged to CERE. About 40% of the CERE personnel were employed by SLU, the remainder being employed by UmU.

Important external funding sources for CERE have been Handelsbanken's Research Foundations, which generously funded recruitment of postdoctoral researchers, PhD students, research projects, CERE's guest research program, and CERE's seminar series. Other important external funding comes from Energiforsk – Swedish Electrical Utilities' R&D Company, the Swedish Environmental Protection Agency, the Swedish Energy Agency, Formas – The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, the Swedish Agency for Marine and Water Management.

photo: Mona Bonta Bergman

The Ulvön Conference

Each year just before the Swedish midsummer, CERE arranges the Ulvön Conference on Environmental Economics. The conference is held at a small fishing hamlet in the High Coast of Sweden, which is part of UNESCOs world heritage list. The very first conference was arranged in 1993 which means that in 2018, the conference celebrated its' 25th anniversary. Over the years, the conference has attracted well-known keynote speakers. The list of extraordinary researchers is long, but to mention a few: Elinore Ostrom (who received the Nobel Memorial Prize in Economic Sciences in 2009). Shawna Grosskopf, John Hartwick, Martin Weitzman, Paul Portney, Maureen Cropper, Steve Polasky, Jason Shogren and Nick Hanley.

The Ulvön conference, with its long history and traditions, is today seen as a legendary event among environmental economists. The conference is known for its high-quality presentations, and most importantly, friendly atmosphere facilitating networking and knowledge spillovers. A typical Ulvön conference starts with a story about Paul Ehrenfest, a physicist in Leiden, who trained a parrot to say "but gentlemen, this is not physics" when the discussion no longer centered on core physics. The Ulvön parrot is trained to remind participants to stay focused on environmental economics. Up to date, the Ulvön parrot have been salient during presentations.

The 25th Ulvön Conference on Environmental Economics was co-arranged with the workshop on non-market valuation (WONV - a network for researchers specializing in valuing non-market goods and services). Many researchers wanted to attend, and we accepted as many as possible. For the first time in the history of the conference, we scheduled parallel sessions. Although the larger scale was a clear violation of the Ulvön doctrine, we managed to keep the Ulvon spirit alive and actually stronger than ever. As usual the conference featured extraordinary keynote speakers. Vic Adamowicz, Anna Alberini and Mikolaj Czajkowski gave excellent keynote presentations as well as friendly and constructively commenting on the participants presentations throughout the conference. They really personified and strengthened the spirit of Ulvön.

Not to forget, an Ulvön conference without the fermented Baltic see herring is like a summer without the sun. Guess what, it tasted better than ever! Some said it tasted like an excellent Gorgonzola while others - in the true spirit of Ulvön - proposed ways to make it taste even better. At this point of the conference, the Ulvön parrot showed up and said "...but ladies and gentlemen, this is not economics!". Everyone went silent for a moment, but then we all (including the parrot) laughed out loud; what a silly thing to say just before midnight.

Thomas Broberg

Ulvön Conference on Environmental Economics

A Journal Article

Explaining the Interplay of Three Markets: Green Certificates, Carbon Emissions and Electricity

Installing a market for green certificates that subsidizes the production of electricity from renewable energy sources together with a market for carbon emissions can have a positive shortrun price signal for investments in electricity from renewable energy sources.

According to the European Union's and Sweden's environmental targets, electricity production should increasingly be based on renewable energy. To this end, several policy instruments are in place in Sweden. Most importantly, tradable green certificates should encourage the production of electricity from renewable energy sources and, subsequently, reduce emission of greenhouse gases. Electricity consumers are obliged to buy a certain share of green certificates in relation to their total electricity consumption. This is effectually a price premium on the renewable electricity sales of producers. The second policy in this context, the EU emissions trading system, has the foremost goal to reduce emissions of greenhouse gases, via the incidental pathway of increasing electricity production from renewable sources. The emission trading system puts a cap on total carbon emissions within EU. Firms in the emission trading scheme receive or buy emission allowances, which they can trade with one another. By putting a price on carbon, the price of carbon-intensive factors increases, and firms will find it profitable to reduce their costs and emissions. For reaching the predefined policy goals in the most efficient manner, understanding the price signals and interactions of these two markets is essential for regulators and market. Therefore, markets for green certificates and carbon emissions have to give the right price signals to investors in electricity based on renewable sources.

The interaction of policy instruments with overlapping goals has been examined from a theoretical perspective. They suggest that when carbon prices increase, generation costs of fossilbased electricity become more expensive relative to those from renewable sources. As a consequence, fossil fuel-based electricity generation will be substituted by renewable-based electricity. Larger production of electricity from renewable sources will supply more certificates and decrease their prices. Hence, we would expect a negative impact of carbon price on green certificate prices. For our empirical analysis of the interaction of the carbon prices, green certificate prices and electricity prices in the Nordic market, we use a multivariate vectorautoregressive approach to take into account the endogenous relationships between these prices. Our results do not support the theoretical argument. Contrary, we find that, to date, increases in carbon prices positively affect green certificate prices. This finding represents a short-run effect and it could be inherent to the specific features of the Swedish tradable green certificate system in which a percentage requirement determines the share of renewable electricity. This implies that the demand for green certificates is a derived demand stemming from electricity demand, meaning that any factors affecting demand for green certificates are already captured by the demand for electricity.

For producers aiming to expand the capacity of renewable-based electricity or for new producers aiming to enter the market, our results imply that these markets support investments into renewablebased electricity.

Sandra Schusser and Jurate Jaraité (2018) Energy Economics 71, 1-13

photo: Mona Bonta Bergman

A CERE Working Paper

Understanding Preference Imprecision

The term 'preference imprecision' seems to have different meanings to different people. In the literature, one can find references to a number of expressions like: vagueness, incompleteness, randomness, unsureness, indecisiveness and thick indifference curves. The purpose of this paper was to survey the various different approaches and to try to link them together: to see if they were all addressed to the same issue.

There are two sources of data for preference imprecision: direct and indirect evidence. Direct evidence comes from experimental studies that rely on self-reported unsureness in binary choice experiments i.e. studies that allow subjects to state "I'm not sure". The main problem of these experimental studies is that appropriate incentives cannot be provided for the reporting of imprecision. Indirect evidence comes mainly from studies that fit deterministic functionals coupled with a random element to account for noise, such as random utility models. However, not all kinds of noise can be interpreted as imprecision.

We then examined theoretical studies, particularly those focusing on; ways to represent imprecise preferences, functionals that can explain the formation of imprecision ranges elicited in experimental studies and, theories focusing on how individuals reach a precise decision when they have imprecise preferences. Starting from the representation problem, we saw that imprecise preferences imply preference incompleteness since complete preferences do not allow individuals to state "I'm not sure". Hence, we looked at literature arguing that the completeness axiom is an unnecessary element for rationality. There are two ways of representing such preferences, while making a distinction between indifference and imprecision. The first is to employ an 'axiom of revealed non-inferiority' instead of the weak axiom of revealed preference. A second way is to make a distinction between psychological and revealed preferences. The former can be incomplete, while the latter is always complete, because real life situations usually compels decision-makers to make a precise decision.

Next step was to focus on studies explaining how imprecision intervals are formed. Vague Expected Utility Theory (VEUT) and Imprecise Expected Utility (IEUT) are the two theories proposing deterministic ways of modelling intervals. The final issue is modelling how individuals with imprecise preferences reach a precise decision when they are compelled to do so. VEUT suggests individuals use a type of lexicographic heuristic whereas IEUT assumes that they calculate the weighted average of the imprecision bounds. The weights in IEUT are a function of optimism.

In addition to these deterministic stories, there are also stochastic models that imply an indirect relationship between models and preference imprecision. It is indirect because stochastic models talk about errors and noise, not about imprecision. Finally, we focused on the possibility of preference imprecision explaining the prominent anomalies of standard theory, such as the valuation gap and preference reversals.

> Oben K. Bayrak, John D. Hey CERE WP #2018-2

Selection of Ongoing Projects

Pricing and Demand Flexibility in a System Dominated by Renewable Electricity Production (Swedish Energy Agency)

In Sweden it has been decided that the electricity system should be 100% renewable. One challenge related to this concerns market design in a market dominated by intermittent power production like wind and solar power. This project aims to contribute to the design of efficient pricing of electricity in order to enable a transition to a renewable electricity system. Such pricing schemes should provide incentives for households to adjust their consumption to the current availability of electricity. In this project we will contribute to the academic literature within the area, where focus is on household behavior. It will also contribute to the current policy discussions on electricity market design. Ultimately, and in particular for the integration of more renewable energy, the project will contribute to the development of an electricity market that is flexible, effective and welfare enhancing. Project leader: Runar Brännlund

ESAB-project (Ersättningsmark i Sverige AB) (Governmental assignment)

This project aims to evaluate the benefits and costs of using what is called the ESAB method when preserving forest land. This method includes exchanges of productive forest lands between the Swedish state and different forest owners, where forest lands suitable for preservation are exchanged for productive forest lands. The evaluation contains an identification and comparison of the costs and benefits in protecting valuable forests, including economic effects for companies, individuals and other stakeholders and for society as a whole. Costs and benefits should be reported in qualitative, quantitative and monetary terms as far as possible. The cost benefit analysis includes comparing the ESAB method with other possible measures to protect productive forest land with high natural values in order to assess which ones are the most cost effective to reach nationally agreed environmental goals. The outcome from this project will be reported by the end of 2019. Project leader: Ola Carlén.

Accelerating Production of Forest Bioenergy in the Baltic Sea Region (Baltic ForBio) (Interreg Baltic Sea Region Programme 2014-2020)

The project aims to increase production of renewable energy in the Baltic Sea region. This by improving the capacity of public authorities, forest and energy agencies, forest advisory organizations, organizations of forest owners and entrepreneurs, to promote the harvest and use of logging residues and small trees cut in early thinning. Based on available technologies and research results, the project will develop costeffective and sustainable harvest methods, decision support tools, guidelines and training programs for harvest of logging residues and small trees. The project will also produce, in close cooperation with key stakeholders, a GIS platform and database for producing spatially explicit estimates of forest biomass potentials, and innovative business models for developing small-scale bioenergy plants in rural area in the Baltic Sea region. The project has fourteen participating organizations from six countries. Project coordinator: Peichen Gong.

Board Members

Board of Directors

The Board of Directors oversees the Centre's activities and review the Strategic Plan. It consists of researchers from across the environmental science and economic disciplines in Umeå.

Chair: Sofia Lundberg (Rector at Umeå School of Business and Economics, Umeå University)

Ove Nilsson (Professor, Department of Forest Genetics and Plant Physiology, SLU Umeå and Director of Umeå Plant Science Centre)

Carina Keskitalo (Professor, Department of Social and Economic Geography, Umeå University)

Göran Ericsson (Professor, and Head of Department of Wildlife, Fish and Environmental Studies, SLU Umeå)

Johan Fransson (Associate Professor, and Head of Department of Forest Resource Management, SLU Umeå)

Research Director of CERE: Bengt Kriström

(Professor, and Head of Department of Forest Economics, SLU Umeå) (Adjunct board member)

Deputy Research Director of CERE: Runar Brännlund (Professor, USBE, Umeå University) (Adjunct board member)

Scientific Secretary of CERE:

Tommy Lundgren until June (Associate Professor, USBE, Umeå University and Department of Forest Economics, SLU Umeå) (Adjunct board member) **Jūratė Jaraitė** from July (Assistant Professor, USBE, Umeå University) (Adjunct board member) **Thomas Broberg** from July (Assistant Professor, USBE, Umeå University) (Adjunct board member)

Our Advisory Board for Strategic Issues

The Advisory Board provides invaluable knowledge, experience and advice from their respective industries and areas of expertise. Industries and areas very much relevant to CERE's research. They visit biannually.

Professor Lars Bergman - Former President, Stockholm School of Economics

Professor Torbjörn Fagerström - Former CEO, Swedish Foundation for Strategic Research

Yvonne Fredriksson - Former Director General, Swedish Energy Markets Inspectorate, Founder of WHYWE consulting AB

Kjell Jansson - Former CEO, Swedenergy

Anders Kristoffersson - Former Senior Advisor, Ministry of Finance

Mårten Larsson - Head of Industrial Policy Department, Swedish Forest Industries Federation



Top from left:

Sofia Lundberg, Chair and Rector at Umeå School of Business and Economics, Umeå university. Photo: Umeå University.

Ove Nilsson, Professor, Department of Forest Genetics and Plant Physiology, SLU Umeå and Director of Umeå Plant Science Centre. Photo: Julio Gonzalez.

Bottom left from the left:

Carina Keskitalo, Professor, Department of Social and Economic Geography, Umeå University. Photo: Umeå University.

Göran Ericsson, Professor, and Head of Department of Wildlife, Fish and Environmental Studies, SLU Umeå. Photo: Jenny Svennås-Gillner.

Johan Fransson, Associate Professor, and Head of Department of Forest Resource Management, SLU Umeå. Photo: Mona Bonta Bergman.

Personnel and Visitors

Professors

Francisco Aguilar Runar Brännlund Peichen Gong Bengt Kriström Magnus Lindmark Karl-Gustaf Löfgren

Associate Professors

Ann-Kristin Bergquist Göran Bostedt Tommy Lundgren

Other Researchers

Doctor Maria Arvaniti Doctor Oben Kurtulus Bayrak Doctor Thomas Broberg Filosofie licentiat Ola Carlén Doctor Jurate Jaraite Doctor Amin Karimu Doctor Andrius Kazukauskas Doctor Chandra Kiran B Krishnamurthy Doctor Marco Persichina Doctor Lars Persson Doctor Klarizze Puzon Doctor Klarizze Puzon Doctor Erlend Dancke Sandorf Doctor Mattias Vesterberg Doctor Camilla Widmark Doctor Wenchao Zhou

Graduate Students

Golnaz Amjadi Victoria S Ayubu Brian Danley Alejandro Egüez Jinggang Guo Xiao Hu Aemiro Melkamu Sandra Schusser Tharshini Thangavelu Anders Vesterberg

Communication

Mona Bonta Bergman

CERE Associates

Doctor Kelly de Bruin Professor Chris Böhringer Professor Shawna Grosskopf Professor Per-Olov Johansson Assistant Professor Anton Paulrud

CERE Visitors

Doctor Maksym Chepeliev Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University, March Professor Elbert Diikgraaf Erasmus University Rotterdam, May (Waste Management Workshop) Professor Stephane Hess University of Leeds, May Professor Mikołaj Czajkowski Department of Economics, University of Warsaw, June (Ulvön) Professoer Anna Alberini Department of Agriculture and Resource Economics, University of Maryland, June (Ulvön) Professor Vic Adamowicz Department of Resource Economics and Environmental Sociology, University of Alberta, June (Ulvön) Doctor Akshay Shanker Australian National University. September Professor Brent Sohnaen Department of Agricultural, Environmental, and Development Economics, The Ohio State University, October Associate Professor Chloé Le Cog Stockholm School of Economics, November Doctor Jasper Meva Humboldt-Universität zu Berlin, November MSocSc, MSc Jussi Lintunen and Professor Jussi Uusivuori Natural Resources Institute Finland, December (Wibe award winners')

photo: Mona Bonta Bergman

Publications and Activities 2017-2018

Professors

Francisco X. Aguilar

Journal articles

Aguilar, F.X., Obeng, E. and Cai, Z. (2018) Water Quality Improvements Elicit Consistent Willingness-to-Pay for the Enhancement of Forested Watershed Ecosystem Services. *Ecosystem Services* 30, 158-171

Aguilar, F.X. and Song, N. (2018) Forest Cover, Agricultural and Socio-Economic Development: A Weighted Beta-Logistic Approach with Ratio Response Forest Science. *Forest Science* 64 (2), 129-138

Dundar, B., McGarvey, R. and Aguilar, F.X. (Published online April 6, 2018) A Robust Optimization Approach for Identifying Multi-State Collaborations to Reduce CO2 Emissions. *Journal of the Operational Research Society*

Mohebalian, P. and Aguilar, F.X. (2018) Beneath the Canopy: Tropical Forests Enrolled in Conservation Payments Reveal Less Evidence of Degradation. *Ecological Economics* 143, 64-73

Mohebalian, P. and Aguilar, F.X. (2018) Design of Tropical Forest Conservation Contracts Considering Risk of Deforestation. Land Use Policy 70, 451-462

Obeng, E. and Aguilar, F.X. (2018) Value Orientation and Payment for Ecosystem Services: Perceived Detrimental Consequences Lead to Willingness-to-Pay for Ecosystem Services. *Journal of Environmental Management* 206, 458-471

Obeng, E., Aguilar, F.X. and McCann, L. (2018) Payments for Forest Ecosystem Services: A Look at Neglected Existence Values, the Free-Rider Problem and Beneficiaries' Willingness to Pay. *International Forestry Review* 20 (2), 206-219

Book

Aguilar, F.X. (Ed.) (2018) Wood Energy in the ECE Region: Data, Trends and Outlook in Europe, the Commonwealth of Independent States and North America. United Nations: United Nations publication. ISBN: 978-92-1-117154-9

Report

Aguilar, F.X., Abt, K., Dmitriev, V., Glavonjić, B., Mabee, W., Sudekum, H. and Vasilyev, O. (2018) Chapter 8: *Wood Energy Markets, 2017-2018*. UNECE/FAO Forest Products Annual Market Review, 92-103

Conference

Aguilar, F.X. SDG 7: Affordable and Clean Energy – Forests and Energy. *United Nations' Economic Commission for Europe: Committee on Forests and the Forest Industry*. Vancouver, Canada, November 8, 2018

External activities

Associate Editor (Forest Economics), Forest Science

Associate Editor (Economics), PLOS One

Co-Leader: Team of Specialists on Wood Energy, United Nations' Economic Commission for Europe and Food and Agriculture Administration of the United Nations

Runar Brännlund

Journal articles

Acar, S., Söderholm, P. and Brännlund, R. (2018) Convergence of per capita Carbon Dioxide Emissions: Implications and Meta-Analysis. *Climate Policy* 18 (4), 512-525

Brännlund, R. and Karimu, A. (2018) Convergence in Global Environmental Performance: Assessing Heterogeneity. *Environmental Economics and Policy Studies* 20 (3), 503-526

Eriksson, M., Brännlund, R. and Lundgren, T. (2018) Pricing Forest Carbon: Implications of Asymmetry in Climate Policy. *Journal of Forest Economics* 32, 84-93

Brännlund, R., Karimu, A. and Söderholm, P. (2017) Convergence in Carbon Dioxide Emissions and the Role of Growth and Institutions: A Parametric and Nonparametric Analysis. *Environmental Economics and Policy Studies* 19 (2), 359-390

Jansson, J., Pettersson, T., Mannberg, A., Brännlund, R. and Lindgren, U. (2017) Adoption of Alternative Fuel Vehicles: Influence from Neighbors, Family and Coworkers. *Transportation Research Part D* 54, 61-73.

Karimu, A., Brännlund, R., Lundgren, T., and Söderholm, P. (2017) Energy Intensity and Convergence in Swedish Industry: A Combined Econometric and Decomposition Analysis. *Energy Economics* 62, 347-356

Reports

Broberg, T., Brännlund, R. and Persson, L. (2018) *Consumer Preferences and Soft Load Control on the Swedish Electricity Market*. Report 2018:496, Eforis, Energiforsk, Stockholm, Sweden

Brännlund, R. (2018) *Ekonomiska konsekvenser av långsiktiga klimatförändringar*. Working Paper 2018:3, Centre for Environmental and Resource Economics, Umeå, Sweden

Brännlund, R. (2018) *Greenwash? An Analysis of the Efficiency of Swedish Environmental Taxes.* Svenskt Näringsliv, October 2018, Stockholm, Sweden

Brännlund, R. (2018) Kostnader och intäkter i Sverige av långsiktiga klimatförändringar – en litteraturöversikt. Specialstudier nr 60, ISSN 1650-996X. Konjunkturinstitutet, Stockholm, Sweden

Brännlund, R. and Vesterberg, M. (2018) *Peak and off-Peak Demand for Electricity: Subsistence Levels and Price Elasticities.* Working Paper 2018:5, Centre for Environmental and Resource Economics, Umeå, Sweden

Broberg, T., Brännlund, R. and Persson, L. (2017) Consumer Preferences and Soft Load Control on the Swedish Electricity Market. Working Paper 2017:9, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper article

Brännlund, R., Kriström, B., Lindmark, M. and Lundgren, T. De föreslagna klimatåtgärderna saknar vetenskaplig förankring. *Dagens Nyheter debate* (online) October 31st, 2018

Discussion on favorite candidates' for the Nobel Memorial Prize in Economics Sciences. P1-morgon (radio), October 8, 2018

Experter gör tummen upp för Nya Zeelands välmående-budget. Dagens Nyheter (online) February 21, 2019

Klimatförändringens vinnare och förlorare. SvD Näringsliv August 2, 2018

Olika syn på kampen mot klimatförändringar. Studio ett (radio), August 16, 2018

Brännlund, R. Flygskatten och bonus-malus saknar effekt. Svenska Dagbladet debate, June 14, 2018

Regeringens satsar på grön skatteväxling. Studio Ett (Radio) January 28, 2018

Statliga miljarder göder utsläppen. Syre Number 255, April 13, 2018

Conference

Broberg, T., Brännlund, R. and Persson, L. (2018) Peak Load Habits for Sale? – Soft Load Control and Consumer Preferences on the Electricity Market. *41'st IAEE International Conference*. Groningen, The Netherlands, June 10-13, 2018

External activities

Board member of the Marcus Wallenberg Foundation for International Scientific Collaboration

Board member of the Umeå School of Business and Economics

Chairman for the Scientific Advisory Board in Environmental Economics at the National Institute for Economic Research, (Konjunkturinstitutets Vetenskapliga Råd i Miljöekonomi) 2012-

Chairman of IVA project "Vägval El"

Deputy Research Director of CERE, 2009-

Editor in chief: Journal of Forest Economics, Elsevier. 2011-

Elected member of the Royal Swedish Academy of Engineering Sciences (IVA), 2009-

Elected member of the The Royal Skyttean Society (Kungliga Skytteanska Samfundet), 2011-

Research stay abroad

Visiting Researcher. TIDES, University of Gran Canaria, Las Palmas, February - March, 2018

Peichen Gong

Journal articles

Guan, Z., Xu, Y., Gong, P. and Cao, J. (2018) The Impact of International Efforts to Reduce Illegal Logging on the Global Trade in Wood Products. *International Wood Products Journal* 9 (3), 1-11

Guo, J. and Gong, P. (2017) The Potential and Cost of Increasing Forest Carbon Sequestration in Sweden. *Journal of Forest Economics* 29 (B), 78-86

Saad, R., Eyvindson, K.J., Gong, P., Lämås, T., and Ståhl, G. (2017) Potential of Using Data Assimilation to Support Forest Planning. *Canadian Journal of Forest Research* 47 (5), 690-695

Zhou, W., Gong, P. and Gao, L. (2017) A Review of Carbon Forest Development in China. Forests 8 (8), 295

External activity

Editor in chief: Journal of Forest Economics, Elsevier. 2010-

Bengt Kriström

Journal article

Kriström, B. and Lindmark, M. (2017) Dags att vända, Bladh? Ekonomisk Debatt 1, 60-65

Books

Johansson, P-O. and Kriström, B. (2018) Cost-Benefit Analysis. Cambridge: Cambridge University Press

Johansson, P-O. and Kriström, B. (2018) Cost-Benefit Analysis for Project Appraisal. Cambridge: Cambridge University Press

Book chapter

Johansson, P-O. and Kriström, B. (2018) Partial Equilibrium versus General Equilibrium Evaluations or Small versus Large Projects. In Farrow, S. (Ed.) *Teaching Benefit-cost Analysis. Tools of the Trade* 69-77, Edward Elgar: Cheltenham

Reports

Johansson, P-O. and Kriström, B. (2018) *Den oändligt orolige skogsägaren: Certifiering och nyckelbiotoper.* Working Paper 2018:11, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and Kriström, B (2018) *Economics and Social Costs of Hydroelectric Power*. Working Paper 2018:9, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and Kriström, B. (2018) Principiella aspekter på samhällsekonomisk kalkyl av skoglig reservatsbildning. Report to LRF

Kriström, B. (2018) *Do Redlisted Species Follow Benford's Law?* Working Paper 2018:10, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and Kriström, B. (2017) Principiella aspekter på samhällsekonomisk kalkyl av LKAB:s beslut att bryta nya gruvnivåer 2008. Underlag till granskningsrapport DNR: 3.1.1 - 2017 - 0013, Riksrevisionen, Stockholm, Sweden

Newspaper articles

Brännlund, R., Kriström, B., Lindmark, M. and Lundgren, T. De föreslagna klimatåtgärderna saknar vetenskaplig förankring. *Dagens Nyheter debate* (online) October 31st, 2018

Johansson, P-O. and Kriström, B. Snabba tåg stöds varken av klimat eller ekonomi. Svenska Dagbladet, April 28, 2018

Johansson, P-O. and Kriström, B. Flygskatten kontraproduktiv särlösning. Västerbottenskuriren, April 20, 2017

External activities

Board Member, Society for Cost-Benefit Analysis, 2018-

Board Member, Scientific Council Transport Analysis, Stockholm

Board Member, The Swedish National Road and Transport Research Institute

Board Member, Vindelfjällens forskningssällskap

Elected Working Member, The Royal Skyttean Society, 2013-

Elected Member, Swedish Society for Energy Economists 2013-

Head, Department of Forest Economics 2001-2009, 2010-

Director, CERE 2009-2018

Elected Member of The Royal Swedish Academy of Agriculture and Forestry, 2011 -

Expert, Scientific Council of Trafikanalys, 2011-

Magnus Lindmark

Journal articles

Lindmark, M. and Andersson, L.F. (2018) Välfärden, skatterna, Baumoleffekten och högerpopulismens framväxt. *Ekonomisk Debatt* 7, 33-44

Lindmark, M. and Minde, K.B. (2018) Et energiregnskap for Fastlands-Norge 1835–2012. Heimen 2, 157-177

Lindmark, M., Nguyen Thu, H. and Stage, J. (2018) Weak Support for Weak Sustainability: Genuine Savings and Long-term Wellbeing in Sweden, 1850–2000. *Ecological Economics* 145, 339–345

Lindmark, M. and Olsson Spjut, F. (2018) From Organic to Fossil and in-Between: New Estimates of Energy Consumption in the Swedish Manufacturing Industry During 1800–1913. *Scandinavian Economic History Review* 66 (1), 18-33

Acar, S. and Lindmark, M. (2017) Convergence of CO2 Emissions and Economic Growth in the OECD Countries: Did the Type of Fuel Matter? *Energy Sources, Part B: Economics, Planning, and Policy* 12 (7), 618-627

Kriström, B. and Lindmark, M. (2017) Dags att vända, Bladh? Ekonomisk Debatt 1, 60-65

Report

Lindmark, M. and Olsson Spjut, F. (2017) *Perspectives on the Transformation of the Organic Energy System in 19th Century Sweden*. Working Paper 2017:6, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper articles

Brännlund, R., Kriström, B., Lindmark, M. and Lundgren, T. De föreslagna klimatåtgärderna saknar vetenskaplig förankring. *Dagens Nyheter debate* (online) October 31st, 2018

Lindmark, M. and Andersson, L.F. Politiker blundar för orsaken till välfärdens ökade kostnader. *Dagens Nyheter DN debatt,* October 3, 2018

Lindmark, M. and Andersson, L.F. Inte självklart att slopad löneavgift ger högre lönsamhet. Västerbottens-Kuriren Replik, December 21, 2018

Conferences

XVIII World Economic Congress, Boston, USA, 2018

European Social Science History Conference, Belfast, UK 2018

External activities

Ledamot Svenska Institutets akademiska nämnd, 2018-

Sakkunnig docentbefordran, Lunds Universitet, 2018

Karl-Gustaf Löfgren

External activities

Chairman of the Institute of Labour Market - and Human Capital Evaluations (IFAU)

Member of Energiutskottet (The Energy Committee) Kungliga Vetenskaps Akademien (KVA)

Member of the Editorial Board of International Yearbook of Environmental and Resource Economics 1995 -

Member of the Editorial Board of The German Economic Review 1999-

Member of the Editorial Board of The Open Forest Science Journal 2008-

Member of the European Economic Association 1986 -

Member of the Royal Academy of Agriculture and Forestry 1996 -

Member of the Royal Academy of Science 1999-

Member of the Royal Skytteanum Foundation 1995 -

Member of the Scandinavian Society of Forest Economics 1979 -

Associate Professors

Ann-Kristin Bergquist

Journal articles

Bergquist, A-K. (2018) Book Review: Profits and Sustainability. A History of Green Entrepreneurship by Geoffrey Jones. *Business History* 60 (6), 931-393

Ducoing, C., Peres-Cajías, J., Badia-Miró, M., Bergquist, A-K., Contreras, C., Ranestad, K. and Torregrosa, S. (2018) Natural Resources Curse in the Long Run? Bolivia, Chile and Peru in the Nordic Countries' Mirror. *Sustainability* 10 (4), 965

Bergquist, A-K. (2017) The Swedish Nonferrous Mining Industry and the Environmental Issue: The case of Boliden Business Archives. *Entreprises et Histoire* 1 (86), 157-159

Bergquist, A-K. and Eriksson, L. (Published online October 6, 2017) Sober Business. Shared Value Creation Between the Insurance Industry and the Temperance Movement. *Business History* (2019) 61 (2), 322-342

Söderholm, K., Bergquist, A-K. and Söderholm, P. (2017) The Transition to Greener Pulp Revisited: Nordic Heterogeneity in Environmental Regulation and R&D Collaboration. *Journal of Cleaner Production* 195, 1328-1339

Book Chapters

Bergquist, A-K. and Söderholm, K. (2018) Greening of the Pulp and Paper Industry. Sweden in Comparative Perspective. In: Särkkä T., Gutiérrez-Poch M. and Kuhlberg M. (Eds.) *Technological Transformation in the Global Pulp and Paper Industry 1800–2018*. Cham: Springer

Bergquist, A-K. (2017) Dilemmas of Going Green. Environmental Strategies in the Swedish Mining Company Boliden 1960-2000. In: Bergoff, H. and Rome, A. (Eds.) *Green Capitalism? Business and the Environment in the Twentieth Century*. Philadelphia: Pennsylvania University Press

Reports

Bergquist, A-K. (2017) Business and Sustainability: New Business History Perspectives. Working Paper No 8-034, Harvard Business School

Bergquist, A-K. and Söderholm, A-K. (2017) *Business and Green Knowledge Production in Sweden 1960s-1980s*. Working Paper No 18-050, Harvard Business School

Conferences

Bergquist, A-K (2018) Business and Sustainability: New Business History Perspectives. *Workshop on The Economic History of Natural Resources and Sustainable Development*, Lund University, Lund, Sweden, January 15-16 (keynote speaker)

Bergquist, A-K (2018) Roadblocks to Sustainability – A Business History Perspective. *Conference on Understanding and Overcoming Roadblocks to Sustainability*, Harvard Business School, Boston, USA, June 14, 2018 (invited speaker)

Bergquist, A-K and Lindmark M. (2018) Conditions for Green Structural Change. The Evolution of the Environmental Goods and Service Sector in Sweden 1970-2015. *European Social Science History Conference*, Belfast, Irleand, April 4-7, 2018

Bergquist, A-K (2017) Copper and the Environment. *Conference on Faith of Nations: Natural Resources and Historical Development*, Norwegian University of Science and Technology, Trondheim, Norway, March 2-4 2017 (invited speaker).

Bergquist, A-K. and Jones, G. (2017) Green Nordic Capitalism. An overview. Association of Business History Conference, Glasgow, 29 June-1 July, 2017

External activity

Thomas K. McCraw fellow in US Business History, Harvard Business School, September 1-December 21, 2017

Göran Bostedt

Journal articles

Bostedt, G. (2018) John Rawls i klimatekonomiska analyser. Ekonomisk Debatt 5, 86-89

Michanek, G., Bostedt, G., Ekvall, H., Forsberg, M., Hof, A.R., de Jong, J., Rudolphi, J. and Zabel, A. (2018) Landscape Planning – Paving the Way for Effective Conservation of Forest Biodiversity and a Diverse Forestry? *Forestry* 9 (9), 523

Zabel, A., Bostedt, G. and Ekvall, H. (2018) Policies for Forest Landscape Management – A Conceptual Approach with an Empirical Application for Swedish Conditions. *Forest Policy and Economics* 86, 13-21

Report

Zabel, A., Bostedt, G. and Ekvall, H. (2017) *Policies for Forest Landscape Management – A Conceptual Approach with an Empirical Application for Swedish Conditions*. Working Paper 2017:5 Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Workshop panellist. Biodiversity Policy: What Works or Doesn't? (2018) The 6th World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 2018

Exploring the Pastoralist Paradox: in the face of Climate Change: A Comparative Analysis of Different Tenure Systems and their Implications for Climate Vulnerability in Semi-arid Sub-Saharan African. (2018) *Joint FAO & Triple L Workshop on Land Tenure Reform and Change*, Nairobi, November 2018

Bostedt, G. (2017) Landskapsplanering, äganderätten och ekonomisk kompensation – om rättsliga krav och ekonomiska styrmedel. *The* 2017 CBM Diversity Conference. Uppsala, Sweden, October 2017

Bostedt, G. (2017) Workshop panellist: Policy Instruments to Manage Human-Wildlife Conflicts. *The 23rd International Symposium on Society and Resource Management (ISSRM)*, Umeå, Sweden, June 2017

External activities

Board member, Centre for Sami Research (Vaartoe), Umeå University, 2014 -

External expert for the report "Skyddet av värdefull skog" [The protection of valuable forest land], made by Riksrevisionen (Swedish National Audit Office), Spring 2018

Grading Committee member, Max Ericsson's PhD thesis, Department of Political Science, Umeå University, January 10, 2017

Grading Committee member, Elin Spegel's Ph.D. thesis, Department of Economics, Luleå University of Technology, March 16, 2018

Member of Editorial Board, Journal of Forest Economics, 2016-

Member of the International Committee, Faculty of Forest Sciences, SLU, 2009-

Substitute member of the Associate Professorship Board, Faculty of Forest Sciences, SLU, 2016-

Research stay abroad

Bureau d'Economie Théorique et Appliquée (BETA), INRA, Nancy, France & Berner Fachhochschule (BFH), Bern, Switzerland, March 2018

Kenya, November 2018

Tommy Lundgren

Journal articles

Amjadi, G., Lundgren, T. and Persson, L. (2018) The Rebound Effect in Swedish Heavy Industry. Energy Economics 71, 140-148

Bostian, M., Färe, R., Grosskopf, S. and Lundgren, T. (2018) Network Representations of Pollution-Generating Technologies. *International Review of Environmental and Resource Economics* 11(3), 193-231

Bostian, M., Färe, R., Grosskopf, S., Lundgren, T. and Weber, W.L. (2018) Time Substitution for Environmental Performance; the Case of Swedish Manufacturing. *Empirical Economics* 54(1), 129-152

Eriksson, M., Brännlund, R. and Lundgren, T. (2018) Pricing Forest Carbon: Implications of Asymmetry in Climate Policy. *Journal of Forest Economics* 32, 84-93

Karimu, A., Brännlund, R., Lundgren, T., and Söderholm, P. (2017) Energy Intensity and Convergence in Swedish Industry: A Combined Econometric and Decomposition Analysis. *Energy Economics* 62, 347-356

Lundgren, T. and Wenchao, Z. (2017) Firm Performance and the Role of Environmental Management. *Journal of Environmental Management* 203(1), 330-341

Book

Aldén et al. (2017) Nationalekonomins frågor. Lund: Studentlitteratur

Book chapters

Lundgren T., Dam L. and Scholtens B. (2018) Sustainable Business Practices—An Environmental Economics Perspective In: Arvidsson S. (Ed.) *Challenges in Managing Sustainable Business*. Cham: Palgrave Macmillan

Dam, L., Lundgren, T. and Scholtens, B. (2018) Environmental Responsibility – Theoretical Perspective In: McWilliams, A., Rupp, D.E., Siegel, D.S., Stahl, G. and Waldman, D.A. (Eds.) *Oxford Handbook of Corporate Social Responsibility*. Oxford: University Press

Reports

Amjadi, G., Lundgren, T., and Persson, L. (2017) *The Rebound Effect in Swedish Heavy Industry*. Working Paper 2017:1, Centre for Environmental and Resource Economics, Umeå, Sweden

Dahlqvist, A., Lundgren, T. and Marklund, P.-O. (2017) Assessing the Rebound Effect in Energy Intensive Industries: A Factor Demand Model Approach with Asymmetric Price Response. Working Paper 2017:10, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper article

Brännlund, R., Kriström, B., Lindmark, M. and Lundgren, T. De föreslagna klimatåtgärderna saknar vetenskaplig förankring. *Dagens Nyheter debate* (online) October 31st, 2018

Conferences

Amjadi, G., T. Lundgren, L. Persson, S. Zhang. (2017) The Rebound Effect in Swedish Heavy Industry. *The 23rd Ulvö Environmental Economics meeting*, June 2016

Amjadi, G., T. Lundgren, L. Persson, S. Zhang. (2017) The Rebound Effect in Swedish Heavy Industry. *The EWEPA Meeting in London*, June 2016

Assistant Professors

Maria Arvaniti

Journal article

Arvaniti, M., and Carvajal, A. (2018) Risk Externalities: When Financial Imperfections are not the Problem, but Part of the Solution. *Journal of Mathematical Economics* 77, 87-100

Oben Bayrak

Journal articles

Bayrak, O. and Hey, J. D. (2017) Expected Utility Theory With Imprecise Probability Perception: Explaining Preference Reversals. *Applied Economics Letters* 24 (13), 906-910

Reports

Bayrak, O.K. and Hey, J. (2018) Decisions under Uncertainty Dispersion and Skewness. Working Paper 2018:1, Centre for Environmental and Resource Economics, Umeå, Sweden

Bayrak, O.K. and Hey, J. (2018) Understanding Preference Imprecision. Working Paper 2018:2, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Bayrak, O.K. and Hey, J. (2018) Decisions under Uncertainty Dispersion and Skewness. *Economics Science Association World Meeting*, Berlin, June 28-July 1, 2018

Bayrak, O.K. and Hey, J. (2018) Decisions under Uncertainty Dispersion and Skewness. *Foundations of Risk and Utility Conference*, York, June 25-June 28, 2018

Research stay abroad

Visiting Researcher, University of York, June 2018

Thomas Broberg

Journal article

Broberg, T. and Egüez, A. (2018) Blame it on the Owner – Ownership and Energy Performance of Multi-Dwelling Buildings. *Energy Economics* 72, 108-119

Reports

Broberg, T., Brännlund, R. and Persson, L. (2018) *Consumer Preferences and Soft Load Control on the Swedish Electricity Market*. Report 2018:496, Eforis, Energiforsk, Stockholm, Sweden

Broberg, T., Egüez, A. and Kažukauskas, A. (2018) *Effects of EPC Home Energy Audits on Investment: A Quasi-Natural Experiment Approach*. Working Paper 2018:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Broberg, T., Brännlund, R. and Persson, L. (2017) *Consumer Preferences and Soft Load Control on the Swedish Electricity Market.* Working Paper 2017:9, Centre for Environmental and Resource Economics, Umeå, Sweden

Broberg, T. and Egüez, A. (2017) Blame it on the Owner – Ownership and Energy Performance of Multidwelling Buildings. Working Paper 2017:4, Centre for Environmental and Resource Economics, Umeå, Sweden

Kažukauskas, A., Broberg, T. and Jaraite, J. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. Working Paper 2017:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

The 6:th World Congress of Environmental and Natural Resource Economics. Presenter. Consumer Preferences and Soft Load Control on the Swedish Electricity Market. Gothenburg, June 25-29, 2018

Ulvön Conference on Environmental and Natural Resource Economics. Organizer. Ulvön, June 19-21, 2018

Hur berikar vi den energipolitiska verktygslådan? Perspektiv på energi, Energimyndigheten. Presenter. Stockholm, December 6-7, 2017

External activities

ESO: Grön tillväxt (Green growth), Expert

SOU 2017:83, Förbränningsskatteutredningen, Inquiry secretary

Workshop on Waste Economics, Umeå. Presenter and organizer

Jūratė Jaraitė

Journal articles

Coria, J. and Jaraité, J. (Published online March 13, 2018) Transaction Costs of Upstream Versus Downstream Pricing of CO2 Emissions. *Environmental and Resource Economics*

Schusser, S. and Jaraité, J. (2018) Explaining the Interplay of Three Markets: Green Certificates, Carbon Emissions and Electricity. *Energy Economics* 71, 1-13

Jaraitė, J., Karimu, A. and Kažukauskas, A. (2017) Policy-Induced Expansion of Solar and Wind Power Capacity: Economic Growth and Employment in EU Countries. *Energy Journal* 38 (5), 197-222

Report

Jaraitė, J., Kažukauskas, A. and Broberg, T. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. Working Paper 2017:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Jaraité, J. (2018) ETS Evaluation: Lithuania and Sweden. *Workshop on Pan-European Evaluation of Climate Policies*, Mannheim, Germany, 6-7 December, 2018

Jaraitė, J., Kažukauskas, A. and Broberg, T. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. *The 23rd Annual Conference of the European Association of Environmental and Resource Economics*, Athens, Greece, June, 2017

Jaraitė, J., Kažukauskas, A. and Broberg, T. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. *The sixth Mannheim Energy Conference*, Mannheim, Germany, May 11-12, 2017

Amin Karimu

Journal articles

Brännlund, R. and Karimu, A. (2018) Convergence in Global Environmental Performance: Assessing Heterogeneity. *Environmental Economics and Policy Studies* 20 (3), 503-526

Brännlund, R., Karimu, A. and Söderholm, P. (2017) Convergence in Carbon Dioxide Emissions and the Role of Growth and Institutions: A Parametric and Nonparametric Analysis. *Environmental Economics and Policy Studies* 19 (2), 359-390

Jaraité, J., Karimu, A. and Kažukauskas, A. (2017) Policy-Induced Expansion of Solar and Wind Power Capacity: Economic Growth and Employment in EU Countries. *The Energy Journal* 38 (5), 197-222

Karimu, A., Brännlund, R., Lundgren, T., and Söderholm, P. (2017) Energy Intensity and Convergence in Swedish Industry: A Combined Econometric and Decomposition Analysis. *Energy Economics* 62, 347-356

Andrius Kažukauskas

Journal article

Jaraitė, J., Karimu, A. and Kažukauskas, A. (2017) Policy-Induced Expansion of Solar and Wind Power Capacity: Economic Growth and Employment in EU Countries. *The Energy Journal* 38 (5), 197-222

Reports

Broberg, T., Egüez, A. and Kažukauskas, A. (2018) *Effects of EPC Home Energy Audits on Investment: A Quasi-Natural Experiment Approach*. Working Paper 2018:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Kalmi, P., Trotta, G. and Kažukauskas, A. (2018) *The Role of Energy Literacy as a Component of Financial Literacy: Survey-Based Evidence from Finland.* Conference paper, IAEE Conference proceedings, Vienna, Austria

Kažukauskas, A., Broberg, T. and Jaraite, J. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. Working Paper 2017:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Kažukauskas, A, Broberg, T. and Jaraite, J. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. *The 23rd Annual Conference of the European Association of Environmental and Resource Economists (EAERE)*. Athens, Greece, June 28-July 1, 2017

Kažukauskas, A, Broberg, T. and Jaraite, J. (2017) Social Comparisons in Real Time: A Field Experiment of Residential Electricity and Water Use. *The Sixth Mannheim Energy Conference*. Mannheim, Germany, May 11–12, 2017

External activities

Receiving the USBE Scientific Award in Economics in 2017. Awarded by the USBE Research Institute for high-quality research in the field of economics. USBE, Umeå University, June, 2017

The seminar of the USBE Scientific Award winners. Presentation on "Behavioural Economics and Energy Consumption". USBE, Umeå University, December, 2017

Research stay abroad

Visiting Researcher TIDES institute, The University of Las Palmas, March, 2017

Chandra Kiran B Krishnamurthy

Journal article

Krishnamurthy, C.K.B., Vesterberg, M., Böök, H., Lindfors, V.A. and Svento, R. (2018) Real-Time Pricing Revisited: Demand Flexibility in the Presence of Micro-Generation. *Energy Policy* 123, 642-658

Reports

Krishnamurthy, C.K. nad Ngo, N.S. (2018) *Parking, Tansit and Traffic: Evidence from SFpark.* Working Paper 2018:6, Centre for Environmental and Resource Economics, Umeå, Sweden

Krishnamurthy, C. K. B., Vesterberg, M., Böök, H., Lindfors, A. V. and Svento, R. (2018) *Benefits of Real-Time Pricing and Rooftop Solar PV Generation: Explorations using Swedish Micro-Data*. Working Paper 2018:4, Centre for Environmental and Resource Economics, Umeå, Sweden

Zaeske, A.L. and Krishnamurthy, C.K. (2017) *Managing Water: Rights, Markets, and Welfare*. Working Paper 2017:2, Centre for Environmental and Resource Economics, Umeå, Sweden

Marco Persichina

Conferences

Persichina, M. (2018) Cascading Defections from Cooperation Triggered by Present-Biased Behaviors in the Commons. 13th Nordic conference on Behavioral and Experimental Economics, Odense, Denmark, September 28-29, 2018

Persichina, M. (2018) Other-Regarding Preferences and Social Norms in the Intergenerational Transfer of Renewable Resources when Agent has Present-biased Preferences. *3rd APEEN Conference and 5th Meeting on Energy and Environmental Economics,* Braga, Portugal, October 18-19, 2018

Persichina, M. (2018) Other-Regarding Preferences and Social Norms in the Intergenerational Transfer of Renewable Resources when Agent has Present-biased Preferences. 6th international Conference on Applied Research in Economics, Perm, Russia, September 21-22, 2018

Lars Persson

Journal article

Amjadi, G., Lundgren, T. and Persson, L. (2018) The Rebound Effect in Swedish Heavy Industry. Energy Economics 71, 140-148

Daniel, A.M., Persson, L. and Sandorf, E.D. (2018) Accounting for Elimination-by-Aspects Strategies and Demand Management in Electricity Contract Choice. *Energy Economics* 73, 80-90

Reports

Broberg, T., Brännlund, R. and Persson, L. (2018) *Consumer Preferences and Soft Load Control on the Swedish Electricity Market.* Report 2018:496, Eforis, Energiforsk, Stockholm, Sweden

Amjadi, G., Lundgren, T., and Persson, L. (2017) *The Rebound Effect in Swedish Heavy Industry*. Working Paper 2017:1, Centre for Environmental and Resource Economics, Umeå, Sweden

Broberg, T., Brännlund, R. and Persson, L. (2017) Consumer Preferences and Soft Load Control on the Swedish Electricity Market. Working Paper 2017:9, Centre for Environmental and Resource Economics, Umeå, Sweden

Daniel, A.M., Persson, L. and Sandorf, E.D. (2017) Accounting for Elimination-by-aspects Strategies and Demand Management in Electricity Contract Choice. Working Paper 2017:7, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Broberg, T., Brännlund, R. and Persson, L. (2018) Peak Load Habits for Sale? Soft Load Control and Consumer Preferences on the Electricity Market. *41st IAEE International conference,* Groningen, The Netherlands, June 10-13, 2018

Broberg, T., Brännlund, R., and Persson, L. (2017) Peak Load Habits for Sale - Soft Load Control and Consumer Preferences on the Electricity Market. *3rd EFORIS international conference,* Stockholm, November, 2017

Ek, K., and Persson, L. (2017) Priorities and Preferences in the Implementation of the European Water Framework Directive. *The 23rd Annual Conference of the European Association of Environmental and Resource Economists (EAERE)*. Athens, Greece, June 28-July 1, 2017

External activity

Invited speaker. Workshop on Electricity Demand: New Modelling Perspectives. Paris, France, March, 2017

Erlend Dancke Sandorf

Journal article

Daniel, A.M., Persson, L. and Sandorf, E.D. (2018) Accounting for Elimination-by-Aspects Strategies and Demand Management in Electricity Contract Choice. *Energy Economics* 73, 80-90

Sandorf, E.D. (Published online November 7, 2018) Did you Miss Something? Inattentive Respondents in Discrete Choice Experiments. Environmental and Resource Economics

Sandorf, E.D. and Campbell, D. (Published online July 20, 2018) Accommodating Satisficing Behavior in Stated Choice Experiments. *European Review of Agricultural Economics* (2019) 46 (1), 133-162

Sandorf, E.D., Crastes dit Sourd, R. and Mahieu, P.A. (2018) Left to Right – Line by Line: The Effect of Attribute-Alternative Matrix Displays on Preferences and Processing Strategies. *Journal of Choice Modeling* 29, 113-132

Xuan, B.B., Sandorf, E.D. and Aanesen, M. (2017) Informing Management Strategies for a Reserve: Results from a Discrete Choice Experiment Survey. *Ocean & Coastal Management* 145, 35-43

Report

Daniel, A.M., Persson, L. and Sandorf, E.D. (2017) Accounting for Elimination-by-Aspects Strategies and Demand Management in Electricity Contract Choice. Working Paper 2017:7, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Sandorf, E. D. (2018) Incorporating non-RUM Decision Rules into the Analysis of Discrete Choice Experiments. *Invited seminar: Technical University of Berlin*, Berlin, Germany, June 12, 2018

Sandorf, E. D. and Campbell, D. (2018) Satisficing in Discrete Choice Experiments – Some Possibilities. *Invited seminar: Technical University of Delft, Transport and Logistics Group*, Delft, The Netherlands, June 14, 2018

Sandorf, E. D., Crastes dit Sourd, R. and Mahieu, P.A. (2018) The Effects of Attribute-alternative Matrix Displays on Preferences and Processing Strategies. *Invited seminar: University of Nantes, LEMNA*, Nantes, France, March 15, 2018

Sandorf, E.D., Persson, L. and Broberg, T. (2018) Assessing the Impact of 'Professional' Respondents Using an Integrated Choice and Latent Variable Model. 6th World Congress for Environmental and Resource Economists, Gothenburg, June 25 - 29, 2018

Sandorf, E.D., Persson, L. and Broberg, T. (2018) Assessing the Impact of 'Professional' Respondents Using an Integrated Choice and Latent Variable Model. *Invited seminar: University of Leeds, Institute for Transport Studies*, Leeds, United Kingdom, February 8, 2018

Sandorf, E.D., Persson, L. and Broberg, T. (2018) Assessing the Impact of 'Professional' Respondents Using an Integrated Choice and Latent Variable Model. *Ulvön Conference on Environmental Economics*, Ulvön June 19 – 21, 2018

Sandorf, E.D. (2017) Trapped! Catching Inattentive Respondents in an Online Discrete Choice Experiment. *Invited Seminar*, University of Gothenburg, Sweden, March 27, 2017

Sandorf, E.D. and Campbell, D. (2017) That's good enough! Satisficing in Stated Choice Experiments. *International Choice Modeling Conference*. Cape Town, South Africa, April 3 -5, 2017

Sandorf, E. D., Crastes, R. and Mahieu, P.- A. (2017) The Effect of Attribute-alternative Matrix Displays on Preferences and Processing Strategies. 24th Ulvön Conference on Environmental Economics, Ulvön, Sweden, June 20-22, 2017

Sandorf, E. D., Crastes, R. and Mahieu, P.- A. (2017) The Effect of Attribute-alternative Matrix Displays on Preferences and Processing Strategies. *ENVECHO VI Workshop*. University of Bern, Switzerland, September 25-26, 2017

Sandorf, E. D., Crastes, R. and Mahieu, P.-A. (2017) The Effect of Attribute-alternative Matrix Displays on Preferences and Processing Strategies. *Workshop on Non-Market Valuation (WONV)*. University of Leeds, United Kingdom, June 26-27, 2017

External activity

External lecturer. Gave the course "Discrete Choice Experiments and Analysis in R". Europäisches Institut für Energieforschung, EifER, EDF-KIT, Karlsruhe, Germany, October 8-12, 2018

Research stays abroad

Visiting Researcher. Technical University of Delft, Transport and Logistics Group, Delft, The Netherlands, May-June (4 weeks) 2018

Visiting Researcher. University of Leeds, Institute for Transport Studies, Leeds, United Kingdom, February (3 weeks) 2018

Mattias Vesterberg

Journal articles

Krishnamurthy, C.K.B., Vesterberg, M., Böök, H., Lindfors, V.A. and Svento, R. (2018) Real-Time Pricing Revisited: Demand Flexibility in the Presence of Micro-Generation. *Energy Policy* 123, 642-658

Vesterberg, M. (2018) The Effect of Price on Electricity Contract Choice. Energy Economics 69, 59-70

Reports

Brännlund, R. and Vesterberg, M. (2018) *Peak and off-Peak Demand for Electricity: Subsistence Levels and Price Elasticities.* Working Paper 2018:5, Centre for Environmental and Resource Economics, Umeå, Sweden

Krishnamurthy, C. K. B., Vesterberg, M., Böök, H., Lindfors, A. V. and Svento, R. (2018) *Benefits of Real-Time Pricing and Rooftop Solar PV Generation: Explorations using Swedish Micro-Data*. Working Paper 2018:4, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

World Congress of Environmental Economics, Gothenburg 2018

Conference on Energy Transitions, Oslo 2018

Conference on Energy Economics, Vaasa 2018

The Ulvön Conference on Environmental Economics, Ulvön, 2018

Research stay abroad

Center for Climate Change, Bilbao, 2018

Camilla Widmark

Journal article

Nummelin, T., Widmark, C., Riala, M., Sténs, A., Nordström, E-M. and Nordin, A. (2017) Forest Futures by Swedish Students -Developing a Mind Mapping Method for Data Collection. *Scandinavian Journal of Forest Research* 32 (8), 807-817

Report

HLPE. (2017) Sustainable Forestry for Food Security and Nuitrition. HLPE Report 11, High level panel of experts on food security and nuitrition on the committee on World Food Security, Rome, Italy

Conferences

Widmark, C. (2017) The Economics of Land Use Management. International Symposium on Society and Resource Management (ISSRM). Umeå, June 18-22, 2017

Widmark, C. (2017) Managing Ecosystem Services. International Arctic Social Sciences Association (ICASS) IX, Umeå, June 8-12, 2017

External activity

Head of Office, EFINORD 2016-

Expert representative. Barents Forest Network, working group of the Euro-Arctic Council during Swedish Chairmanship, 2017-2019

Pre-evaluation, Antti-Huhani Pekkarinen PhD thesis. University of Helsinki, October, 2017

Graduate Students

Golnaz Amjadi

Journal article

Amjadi, G., Lundgren, T. and Persson, L. (2018) The Rebound Effect in Swedish Heavy Industry. Energy Economics 71, 140-148

Report

Amjadi, G., Lundgren, T., and Persson, L. (2017) *The Rebound Effect in Swedish Heavy Industry*. Working Paper 2017:1, Centre for Environmental and Resource Economics, Umeå, Sweden

Conference

Amjadi, G., Lundgren, T. and Persson, L. (2018) The Rebound Effect in Swedish Heavy Industry. *European Association of Environmental and Resource Economics (EAERE)*, Athens, Greece, June 28- July 1, 2017

Aemiro Melkamu Daniel

Journal article

Daniel, A.M., Persson, L. and Sandorf, E.D. (2018) Accounting for Elimination-by-Aspects Strategies and Demand Management in Electricity Contract Choice. *Energy Economics* 73, 80-90

Reports

Daniel, A.M., Persson, L. and Sandorf, E.D. (2017) Accounting for Elimination-by-aspects Strategies and Demand Management in Electricity Contract Choice. Working Paper 2017:7, Centre for Environmental and Resource Economics, Umeå, Sweden

Brian Danley

Journal article

Danley, B. (2018) Skepticism of State Action in Forest Certification and Voluntary Set-asides: A Swedish Example with two Environmental Offsetting Options. *Scandinavian Journal of Forest Research* 33 (7), 695-707

Conferences

Danley, B. (2018) Time to Evaluate Forest Owner Typologies? Insights from Sweden. Scandinavian Society of Forest Economics (SSFE) Biennial Seminar, Helsingor, Denmark, May 22-25, 2018

Shared Responsibility for Nature Conservation and Voluntary Set-Asides in Swedish Forest Policy. International Symposium on Society and Resource Management, Umeå, Sweden, 19-22 June, 2017

External activity

2017: Visiting PhD student, University of Stirling. Hosting professors: Nick Hanley & Danny Campbell, October-November, 2017

PhD student Evaluating Committee member. Quality assessment of various doctoral studies programs, Estonian University of Life Sciences, Tartu, Estonia, February 26- March 1, 2018

Alejandro Egüez

Journal articles

Broberg, T. and Egüez, A. (2018) Blame it on the Owner — Ownership and Energy Performance of Multi-Dwelling Buildings. *Energy Economics* 72, 108-119

Chavez-Rodriguez, M. F., Carvajal, P. E., Martinez Jaramillo, J. E., Egüez, A., Mahecha, R.E.G., Schaeffer, R., Szklo, A., Lucena, A.F.P. and Arango Aramburo, S. (2018) Fuel Saving Strategies in the Andes: Long-Term Impacts for Peru, Colombia and Ecuador. *Energy Strategy Reviews* 20, 35-48

Reports

Broberg, T., Egüez, A. and Kažukauskas, A. (2018) *Effects of EPC Home Energy Audits on Investment: A Quasi-Natural Experiment Approach*. Working Paper 2018:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Broberg, T. and Egüez, A. (2017) Blame it on the Owner – Ownership and Energy Performance of Multidwelling Buildings. Working Paper 2017:4, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Broberg, T., Egüez, A. and Kažukauskas, A. (2018) Effects of EPC Home Energy Audits on Investment: A Quasi-natural Experiment Approach. *World Congress of Environmental and Resource Economists (WCERE)*, Gothenburg, June 25-29, 2018

Egüez, A. (2018) Waste Kuznets Curve and the Waste Hierarchy: A Comparison between Waste Categories. *Workshop on Waste Economics*. Umeå, May 8, 2018

External activities

Research internship: Industrial Doctoral School for Research and Innovation. Umeå Energi (Dåva), April - August, 2018

Participant: Colorado Technology Primer for Economists and Social Scientists. Golden, Colorado, US, August 13-17, 2018

Jinggang Guo

Journal article

Guo, J. and Gong, P. (2017) The Potential and Cost of Increasing Forest Carbon Sequestration in Sweden. *Journal of Forest Economics* 29 (B), 78-86

Book

Guo, J. (2018) *Economics of Timber Production and Climate Change Mitigation*. Doctoral Thesis, Umeå: SLU, Department of Forest Economics

Research stay abroad

Visiting Researcher, Purdue University, USA, August-November, 2017

External activity

Jinggang Guo, Peichen Gong, Runar Brännlund. The Consequences of Increasing Bioenergy Production. Seminar on Bio-based Feedstock, Februrary 6, 2017, Umeå

Sandra Schusser

Journal article

Schusser, S. and Jaraité, J. (2018) Explaining the Interplay of Three Markets: Green Certificates, Carbon Emissions and Electricity. *Energy Economics* 71, 1-13

Conferences

Schusser, S. and Bostedt, G. (2018) Green Behavioural (in)Consistencies: Are Pro-environmental Behaviours in Different Domains Substitutes or Complements? 6th World Congress of Environmental and Resource Economists (WCERE 2018), Göteborg, June 25-29, 2018

Schusser, S. and Bostedt, G. (2018) Green Behavioural (in)Consistencies: Are Pro-environmental Behaviours in Different Domains Substitutes or Complements? *Young Energy Economists & Engineers Seminar*, Florence, November 8-9, 2018

Tharshini Thangavelu

Journal article

Thangavelu, T., Paulrud, A. and Stage, J. (2017) Understanding Heterogeneous Preferences for Angling Site Attributes: Application of a Choice Experiment. *Journal of Environmental Economics and Policy* 6 (3), 324-340

Book

Thangavelu, T. (2018) Essays on Malnutrition, Savings and Preferences. Doctoral Thesis, Luleå: Luleå University of Technology, Department of Business Administration, Technology and Social Sciences, Social Sciences

Associates of CERE

Professor Chris Böhringer

Journal articles

Böhringer, C., Balistreri, E.J. and Rutherford, T.F. (2018) Carbon Policy and the Structure of Global Trade. *The World Economy* 41 (1), 194-221

Böhringer, C., Carbone, J.C. and Rutherford, T.F. (2018) Embodied Carbon Tariffs. Scandinavian Journal of Economics 120 (1), 183-210

Böhringer, C., Rosendahl, K.E. and Schneider, J. (2018) Unilateral Emission Pricing and OPEC's Behaviour. *Strategic Behavior and the Environment* 7 (3-4), 225-280

Böhringer, C, Bye, B, Fæhn, T. and Rosendahl, K. E. (2017) Output-based Rebating of Carbon Taxes in the Neighbor's Backyard. *Canadian Journal of Economics* 50 (2), 426-455

Böhringer, C., Cuntz, A., Harhoff, D. and Asane-Otoo, E. (2017) The Impact of the German Feed-in Tariff Scheme on Innovation: Evidence Based on Patent Filings in Renewable Energy Technologies. *Energy Economics* 67, 545-553

Böhringer, C., Garcia-Muros, X., Cazcarro, I. and Arto, I. (2017) The Efficiency Cost of Protective Measures in Climate Policy. *Energy Policy* 104, 446-454

Böhringer, C., Garcia-Muros, X., Gonzalez-Eguino, M. and Rey, L. (2017) US Climate Policy: A Critical Assessment of Intensity Standards. *Energy Economics* 68 (1), 125-135

Böhringer, C., Rosendahl, K.E. and Storrøsten, H.B. (2017) Robust Policies to Mitigate Carbon Leakage. *Journal of Public Economics* 149, 35-46

Professor Shawna Grosskopf

Journal articles

Althin, R., Färe, R., Grosskopf, S., Jönsson, B. and Wilking, N. (2018) Measuring the Efficiency of Cancer Care in Europe. *Annals of Oncology* 29 (8), 2018

Bostian, M., Färe, R., Grosskopf, S. and Lundgren, T. (2018) Network Representations of Pollution-Generating Technologies. *International Review of Environmental and Resource Economics* 11 (3), 193-231

Bostian, M., Färe, R., Grosskopf, S., Lundgren, T. and Weber, W.L. (2018) Time Substitution for Environmental Performance; the Case of Swedish Manufacturing. *Empirical Economics* 54 (1), 2018, 129-152

Färe, R. Grosskopf, S. and Karagiannis, G. (2018) On Technical Inefficiency Indicators at the Industry Level. *International Journal of Production Economics* 196, 333-334

Färe, R., Grosskopf, S., Pasurka, C. and Shadbegian, R. (2018) Pollution Abatement and Employment. *Empirical Economics* 54 (1), 259-285

Färe, R., Grosskopf, S., Karagiannis, G. and Margaritis, D. (2017) Data Envelopment Analysis and its Related Linear Programming Models. *Annals of Operations Research* 250 (1), 37-43

Färe, R., Grosskopf, S., Walden, J. (2017) Measuring Capital Value in a Commercial Fishery: A Distance Function Approach. *Marine Policy* 81, 109-115

Grosskopf, S., Hayes, K., Taylor, L. and Weber, W. (2017) Would Weighted-Student Funding enhance Intra District Equity in Texas? A Simulation using DEA. *Journal of the Operational Research Society* 68 (4), 377-389

Walden, J. Färe, R. Grosskopf, S. (2017) Measuring Change in Productivity of a Fishery with the Bennet-Bowley Indicator. *Fishery Bulletin*, 115 (3), 273-283

Whittaker, G., Färe, R., Grosskopf, S., Barnhart, B. and Bostian, M. (2017) Spatial Targeting of Agri-Environmental Policy using Bilevel Evolutionary Optimization. *Omega* 66 (A), 15-27

Book chapters

Färe, R., Grosskopf, S., Margaritis, D., Weber, W. (2018) Dynamic Efficiency and Productivity. In: Grifell-Tatjé, E., Lovell, C. A. K. and. Sickles, R. (Eds.) *The Oxford Handbook of Productivity Analysis* 183-210, Oxford: University Press

Färe, R., Grosskopf, S. and Pasurka, C. (2017) Modelling Pollution Abatement Technologies as a Network. In: Ancev, T., Azad, S. and Hernandez-Sancho, F. (Eds.) New Directions in Productivity Measurement and Efficiency Analysis 59-79, Stockholm: Dialogos förlag

Conferences

Bostian, M., Daraio, C., Färe, R., Grosskopf, S., Izzo, M. G., Leuzzi, L., Ruocco, G. and Weber, W.L. (2018) New Perspectives on Estimation and Inference About Research Productivity. *North American Productivity Workshop*, Miami, Florida, June 2018

Bostian, M., Daraio, C., Färe, R., Grosskopf, S., Izzo, M. G., Leuzzi, L., Ruocco, G. and Weber, W.L. (2018) Inference for Nonparametric Productivity Networks: Motivation and Relevance. *Asian Pacific Productivity Conference*, Seoul, Korea, July 4-6, 2018

Grosskopf, S. (2018) Keynote, Health Care Efficiency. CEPA International Workshop, University of Queensland, Australia, November 2018

Bostian, M., Färe, R., Grosskopf, S. and Lundgren, T. (2017) Unintended Outputs. *European Workshop on Productivity and Efficiency,* London, June 12-14, 2017

Färe, R. and Grosskopf, S. (2017) Network DEA tutorial. Data Envelopment Analysis Conference, Prague, June 27-29

Izzo, M.G., Leuzzi, L. and Ruocco, G. (2017) Inference for Nonparametric Production Networks: A Pseudo-likelihood Approach. CMStat, London, December, 2017

External acitivity

Invited seminar, Charter School Issues, Miami University, October 17

PhD Seminar Opponent (2018) Pontus Mattsson, Essays in Swedish Performance Measurement, Linnaeus University, Växsjö, Sweden

Research stays abroad

Visiting Researcher, University of Auckland, February/March, 2017

Visiting Researcher, CERE/Umea, June, 2017

Visiting Researcher, IHE, Lund, Sweden, June, 2017

Visiting Scholar, Swedish Institute for Health Economics, Lund, Sweden, June 2018

Visiting Scholar, University of Auckland, March 2018

Visiting Scholar, University of Queensland, November 2018

Professor Per-Olov Johansson

Journal article

Johansson, P.O. (Published online October 24, 2018) Book Review: Viscusi, W. Kip: Pricing Lives – Guideposts For A Safer Society. *Journal of Economics* (2019) 126 (2), 197–199

Jorge-Calderon, D. and Johansson, P-O. (2017) Emissions Trading and Taxes: An Application to Airport Investment Appraisals. *Journal of Transport Economics and Policy* 51 (4), 249-265

Books

Johansson, P-O. and Kriström, B. (2018) Cost-Benefit Analysis. Cambridge: Cambridge University Press

Johansson, P-O. and Kriström, B. (2018) Cost-Benefit Analysis for Project Appraisal. Cambridge: Cambridge University Press

Book chapter

Johansson, P-O. and Kriström, B. (2018) Partial Equilibrium versus General Equilibrium Evaluations or Small versus Large Projects. In Farrow, S. (Ed.) *Teaching Benefit-cost Analysis. Tools of the Trade* 69-77, Edward Elgar: Cheltenham

Reports

Johansson, P-O. and Kriström, B. (2018) *Den oändligt orolige skogsägaren: Certifiering och nyckelbiotoper*. Working Paper 2018:11, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and Kriström, B (2018) *Economics and Social Costs of Hydroelectric Power*. Working Paper 2018:9, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and Kriström, B. (2018) Principiella aspekter på samhällsekonomisk kalkyl av skoglig reservatsbildning. Report to LRF

Johansson, P-O. and de Rus, G. (2018) Evaluating Large Projects when there are Substitutes: Looking for Possible Shortcuts. Working Paper 2018:7, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and de Rus, G. (2018) Evaluating Large Projects when there are Substitutes: Looking for Possible Shortcuts. Working Paper 2018/12, FEDEA, Madrid, Spain

Johansson, P-O. and Kriström, B. (2017) *Principiella aspekter på samhällsekonomisk kalkyl av LKAB:s beslut att bryta nya gruvnivåer* 2008. Underlag till granskningsrapport DNR: 3.1.1 - 2017 - 0013, Riksrevisionen, Stockholm, Sweden

Newspaper article

Johansson, P-O. and Kriström, B. Flygskatten kontraproduktiv särlösning. Västerbottenskuriren, April 20, 2017

Johansson, P-O. and Kriström, B. Snabba tåg stöds varken av klimat eller ekonomi. Svenska Dagbladet, April 28, 2018

External activities

Member of Scientific Committee for a project on R&D at Università degli Studi di Milano financed by the European Investment Bank, 2013-

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