

MATTIAS VESTERBERG
Curriculum Vitae January 2021

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Research interests

Energy Economics, Household behavior, Regulation

Current position

Wallander postdoctoral scholar, January 2019 - December 2021
Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

Senior Lecturer, August 2020 - July 2021
Department of Business Administration, Technology and Social Sciences
Luleå University of Technology

Previous positions

Researcher, March 2017 – December 2018
Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

Research assistant, January 2017 – March 2017
Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

PhD student, September 2012 – February 2017
Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

Research assistant/Teaching assistant, January 2011-September 2012
Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

Education

PhD in Economics, September 2012 - February 2017
Department of Economics, Umeå School of Business, Economics and Statistics
Centre for Environmental and Resource Economics (CERE)
Industrial Doctoral School (IDS)
Thesis title: "*Power to the people: electricity demand and household behavior*"
Supervisor: prof. Runar Brännlund
Faculty opponent: prof. Maximilian Auffhammer, UC Berkeley

Master in Economics, 2011-2012

Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

Bachelor in Economics, 2007-2011

Department of Economics, Umeå School of Business, Economics and Statistics
Umeå University

Published papers

- Vesterberg, M., Zhou, W., & Lundgren, T. "Wind of change: Small-scale electricity production and distribution-grid efficiency in Sweden". *Utilities Policy* 69.
- Karimu, A, Krishnamurthy, C.K and Vesterberg, M. "Hourly Demand for Electricity in Sweden: Implications for Load, Welfare and Emissions". Forthcoming in *Energy Journal*.
- Lanot, G and Vesterberg, M (2019) "An empirical model of the decision to switch between electricity tariffs". *Journal of Business Analytics* 2.1, 24-46
- Kiran B. Krishnamurthy, C, Vesterberg, M, Böök, H, V. Lindfors, A, Svento, R (2018) "Real-Time Pricing Revisited: Demand Flexibility in the Presence of Micro-Generation" *Energy Policy* 23, 642-658
- Vesterberg, M (2018) "The effect of price on electricity contract choice". *Energy Economics*, 69, 59-70.
- Vesterberg, M and Kiran B. Krishnamurthy, C (2016) "Residential end-use electricity demand: the implications for real time pricing in Sweden". *Energy Journal* 37:4, 141-164
- Vesterberg, M (2016) "The hourly income elasticity of electricity". *Energy Economics* 59, 188-197

Policy reports

- Vesterberg, M (2020) *Den svenska elmarknaden: Är hushållen en kraft att räkna med?* SNS report, available from SNS (www.sns.se)
- Broberg, T, Brännlund, R, Kazukauskas, A, Persson, L and Vesterberg, M (2014) "En elmarknad i förändring – Är kundernas flexibilitet till salu eller ens verklig?" (English title: "An electricity market in transition – is demand flexibility for sale or even real?") available from Energimarknadsinspektionen (www.ei.se)
- Broberg, T, Brännlund, R, Kazukauskas, A, Persson, L and Vesterberg, M (2014) "En elmarknad i förändring – vem är den flexibla kunden?" (English title: "An electricity market in transition – who is the flexible customer?") available from Energimarknadsinspektionen (www.ei.se)

Debate articles and appearances in media

- Dagens Industri (2020). "Hushållen löser inte elbristen", <https://www.di.se/debatt/hushallen-loser-inte-elbristen/>
- Second Opinion (2020). "Ei föreslår prissignaler i nätavgifterna", <https://second-opinion.se/ei-foreslar-prissignaler-i-natavgifterna/>
- Västerbottens-Kuriren (2017). "Lite att vinna på att vara elaktiv", <https://www.vk.se/2017-02-22/forskare-lite-att-vinna-pa-att-vara-elaktiv>
- Second Opinion (2017). "Osäkra antaganden om kundflexibilitet", <https://second-opinion.se/osakra-antaganden-om-kundflexibilitet/>

Working papers

- Lanot, G. and Vesterberg, M. (2020) “*The price elasticity of electricity when marginal incentives are very large*”. Umeå Economic Studies No 968 (Submitted to Energy Economics in September 2020)
- Brännlund, R and Vesterberg, M (2018) “*Peak and off-peak demand for electricity: Is there a potential for load shifting?*”. CERE WP#2018-5 (Submitted to Energy Economics in September 2020, revise and resubmit in January 2021)
- Vesterberg, M (2017) “*Heterogeneity in price responsiveness of electricity: contract choice and the role of media coverage*”. Umeå Economic Studies, No 940
- Vesterberg, M (2017) “*Power to the people: Electricity demand and household behavior*”. Doctoral thesis. Umeå Economic Studies No 942, Doctoral Thesis

Work in progress

- *Persistent and transient efficiency in electricity distribution in Sweden*, with Tommy Lundgren and Whenzhao Zhao
- *Unexploited economies of scale in electricity distribution in Sweden*, with Magnus Söderberg (University of Southern Denmark)
- *Estimating the long run price elasticity of electricity demand using spatial price variation*
- *Efficiency of regulation of electricity distribution when demand is uncertain*

Refereeing

Energy Journal, Energy Economics, Applied Energy, Energies

Conferences, workshops and presentations

- Seminar on demand flexibility, VATT Institute for Economic Research, 2020
- Report presentation, SNS 2020
- Seminar on demand flexibility, Luleå University of Technology 2020
- EAERE 2020 (online conference due to covid-19)
- EMEE workshop, Zurich 2020
- Seminar on demand flexibility, Basque Center for Climate Change 2018
- World Congress of Environmental Economics, Gothenburg 2018
- Conference on Energy Transitions, Oslo 2018
- Workshop on Energy Economics, Vaasa University 2018
- Workshop on household behavior, Skellefteå Kraft 2017
- Workshop on household behavior, Vattenfall 2017
- Seminar on electricity contract choice, Kyushu University 2017
- Seminar on demand flexibility, Energimarknadsinspektionen 2015, 2016
- Workshop on energy efficiency, Skellefteå 2015
- The Economic Policy Network, USBE (Seminars) 2015, 2016, 2017, 2019
- Skellefteå Workshop, Industrial Doctoral School 2014
- Pardubice Workshop, Industrial Doctoral School 2014
- World Congress of Environmental and Resource Economics, Istanbul 2014
- Ulvön Conference on Environmental Economics 2013, 2014, 2015, 2018

- CERE winter workshop in Ammarnäs 2013, 2014, 2015, 2016, 2017

Visiting positions

- Visiting researcher at the Basque Centre for Climate Change (BC3), Spain, fall semester 2018. Hosted by PhD Sebastien Foudi at BC3
- Visiting researcher at Managi Lab, Kyushu University, Japan, spring semester 2017. Hosted by prof. Shunsuke Managi at the Department of Urban Engineering.
- Visiting scholar at University of California, Berkeley, fall semester 2015. Hosted by prof. Peter Berck at Department of Agriculture and Resource Economics

Research and travel grants

- Energimyndigheten, 1.9 M SEK for research on electricity distribution regulation, main applicant (2021-2022)
- USBE Research Institute, 37 000 SEK in seed-money, co-applicant (2020)
- Wallander scholarship, 1.61 M SEK (The scholarship is awarded based on the doctoral thesis)
- Energimyndigheten SamspeL 3.8 M SEK for research project on demand flexibility, co-applicant (2017-2020)
- Handelsbanken's research fund 2.3 M SEK for research project on efficient pricing of electricity, co-applicant (2017-2020)
- Faculty of Social Science, Umeå University, travel grant for visiting scholar at UC Berkeley (2015)

Awards

USBE Scientific Award in Economics, 2019

Teaching experience

More than 400 hours of lectures, including:

- Micro Economics, introductory level (lecturer and course responsibility), 2018, 2020
- Econometrics, introductory level (lecturer and course responsibility), 2016 - 2019
- Energy Economics, Master level (lecturer), 2016 - 2017
- Econometrics, Master level (teaching assistant) 2016
- Macroeconomics, introductory level (lecturer and course responsibility) 2013 - 2018
- Macroeconomics, introductory level (teaching assistant) 2011 - 2012
- Microeconomics, introductory level (teaching assistant) 2012

Supervision of several bachelor and master thesis 2016 - 2019

Grading of several bachelor theses, 2014 - 2019

Pedagogical merits

- Nominated for USBE's pedagogical prize 2017
- Course evaluations available upon request
- Pedagogical training, 11 ECTS:
 - Att stödja lärande (Supporting learning)
 - Handledning i högre utbildning (Supervision in higher education)

- Teorier om lärande (Theories on learning)
- Presentationsteknik (Presentation technique)

Commission of trust

- Scientific secretary, CERE, 2020-present
- Secretary in the Association of Economics in Umeå, 2019-present
- Education committee, Department of Economics, Umeå University, 2017
- PhD representative, Department of Economics, Umeå University, 2015