

Sheng Dai

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PROFESSIONAL EXPERIENCE

Aalto University School of Business, Finland Ph.D. Candidate (supervisor: Professor Timo Kuosmanen)	9/2018 -
Research Center of Resource and Environmental Economics, CUG, China Research Assistant (supervisor: Professor Jinhua Cheng)	9/2014 - 8/2018

RESEARCH INTERESTS

Environmental and Resource Economics, Nonparametric Econometrics, Optimization, Production Economics, Applied Microeconometrics

EDUCATION

Aalto University, Finland Ph.D. in Management Science	9/2018 -
China University of Geosciences, China M.Sc. in Management Science	9/2014 - 6/2017
China University of Geosciences, China B.Sc. in Business Management	9/2010 - 6/2014

PUBLICATIONS

Peer-Reviewed Journal Articles

Accepted

- [J12] Yi, J., Dai, S., Cheng, J., Wu, Q., & Liu, K. (2021). Production quota policy in China: Implications for sustainable supply capacity of critical minerals. *Resources Policy*, 72, 102046.
- [J11] Dai, S., Zhou, X., & Kuosmanen, T. (2020). Forward-looking assessment of the GHG abatement cost: Application to China. *Energy Economics*, 88, 104758. (ABS 3)
- [J10] Kuosmanen, T., Zhou, X., & Dai, S. (2020). How much climate policy has cost for OECD countries?. *World Development*, 125, 104681. (ABS 3)
- [J9] Cheng, J., Yi, J., Dai, S., & Xiong, Y. (2019). Can low-carbon city construction facilitate green growth? Evidence from China's pilot low-carbon city initiative. *Journal of Cleaner Production*, 231, 1158-1170.
- [J8] Dai, Q., Ye, X., Wei, Y. D., Ning, Y., & Dai, S. (2018). Geography, ethnicity and regional inequality in Guangxi Zhuang autonomous region, China. *Applied Spatial Analysis and Policy*, 11(3), 557-580.
- [J7] Chen, J., Cheng, J., & Dai, S. (2017). Regional eco-innovation in China: An analysis of eco-innovation levels and influencing factors. *Journal of Cleaner Production*, 153, 1-14.
- [J6] Cheng, J., Dai, S., & Ye, X. (2016). Spatiotemporal heterogeneity of industrial pollution in China. *China Economic Review*, 40, 179-191.

Submitted

- [J5] Dai, S. Variable selection in convex quantile regression: L1-norm or Lo-norm regularization? Revised and Resubmitted. February. 2022
- [J4] Dai, S., Fang, Y.H., Lee, C.Y., Kuosmanen, T. pyStoNED: A Python Package for Convex Regression and Frontier Estimation. September 2021.
- [J3] Kuosmanen, T., Tan, A., Dai, S. Production function of death: Performance assessment of the English NHS hospitals during the first wave of the COVID-19 pandemic. September 2021.
- [J2] Yi J., Dai S., Cheng J., Liu K. How urban sprawl affects local and adjacent ecosystem services? Evidence from a spatial analysis of China. September 2021.
- [J1] Lehtelä J., Dai S., Kuosmanen T. Ripple Effect in the European Football Transfer Markets. October 2021.

Selected Work in Progress

- [W3] Dai, S., Kuosmanen, T., Zhou, X. Non-crossing nonparametric quantile frontier estimation
- [W2] Dai, S., Kuosmanen, T., Zhou, X. Partial frontiers are not quantiles.
- [W1] Kuosmanen, T., Kuosmanen, N., Dai, S. Synergies and tradeoffs in sustainable development.

Python package

- [P1] Dai, S., Fang, Y. H., Lee, C. Y., Kuosmanen, T. A Python Package for Convex Regression and Frontier Estimation. <https://github.com/ds2010/pyStoNED>.

TEACHING EXPERIENCE

- Thesis advisor and Examiner 3/2020 -
Master's Thesis, Aalto University School of Business, Finland
- Teaching Assistant 1/2019 -
Econometrics (30Coo200), Bachelor, Aalto University School of Business, Finland
Productivity and Efficiency Analysis (30Eoo300), Master, Aalto University School of Business, Finland

GRANTS AND AWARDS

Research funding and grants:

- Foundation for Economic Education. A sum of € 45,940 for doctoral studies and research. 2018, 2019, 2021
- HSE Support Foundation. € 6,000 for doctoral studies and research. 2019
- Foundation for Economic Education, A sum of € 3,100 for attending academic conferences. 2018 – 2022
- HSE Support Foundation. A sum of € 4,800 for attending academic conferences. 2018 – 2022

Awards and honours:

- HSE Support Foundation. € 667 for *Recognition awards for quality publications* (total € 2,000). 2019
- Ministry of Education of the P.R.C. CNY 20,000 for *National Scholarship* for Postgraduates. 2016
- Regional Science Association of China (RSAC). CNY 2,000 for *Distinguished Youth Scholar Paper*. 2016
- Ministry of Education of the P.R.C. A sum of CNY 10,000 for *National Encouragement Scholarship* for undergraduates. 2011,2012

CONFERENCE AND SEMINAR PRESENTATIONS

31st (hybrid) European Conference on Operation Research, Athens, Greece	06/2021
29th The Society for Risk Analysis-European conference, Espoo, Finland	06/2021
11th (virtual) North American Productivity Workshop, Miami, USA	06/2020
16th European Workshop on Efficiency and Productivity Analysis, London, UK	06/2019
42nd International Association for Energy Economics Annual Conference, Montréal, Canada	05/2019
6th International Association for Energy Economics Asian Conference, Wuhan, China	11/2018
6th World Congress of Environmental and Resource Economists, Gothenburg, Sweden	06/2018
Regional Science Association of China Annual Meeting, Changsha, China	10/2016
The Sixth Asian Seminar in Regional Science, Sendai, Japan	09/2016

REFeree SERVICES

Environmental and Resource Economics, Journal of Cleaner Production, Resources Policy, Journal of Regulatory Economics, IEEE Access, Ecosystem Health and Sustainability, Economic Analysis and Policy, Emerging Markets Finance and Trade

SKILLS

Programming: R, Python, Stata, Julia, GAMS, \LaTeX
Languages: Chinese (native), English (fluent)

REFERENCES

Dr. Timo Kuosmanen (Doctoral supervisor and co-author), Professor, Aalto University School of Business, Espoo, Finland. Email: timo.kuosmanen@aalto.fi

Dr. Jinhua Cheng (Master's supervisor and co-author), Professor and vice-president, China University of Geosciences, Wuhan, China. Email: chengjinhua100@126.com

Dr. Xun Zhou (co-author), Lecturer, University of York, York, UK. Email: xun.zhou@york.ac.uk