

# Cloé Garnache

## Contact Information

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## Academic Positions & Affiliations

Professor, Housing Lab, Oslo Metropolitan University	2023 -
Affiliate Researcher, Ragnar Frisch Centre for Economic Research	2021 -
Affiliate Researcher, Department of Economics, University of Oslo	2020 -
Affiliate member, Center for Economic Studies CESifo	2016 -
Associate Professor (with tenure), Housing Lab, Oslo Metropolitan University	2020 - 2023
Assistant Professor, Department of Economics, University of Oslo	2018 - 2020
Assistant Prof, Dept of Ag. Food, and Resource Economics, Michigan State Univ.	2013 - 2018

## Short Academic Visits

University of Maryland, Dept of Ag. and Resource Economics	Sept-Dec 2023
CESifo, Ludwig Maximilian University, Munich	July-Aug 2016
Ragnar Frisch Center for Economic Research	March-April 2018
Norwegian School of Economics (NHH), Bergen	April-May 2018

## Education

PhD, Agricultural and Resource Economics, University of California, Davis	2013
MS, Energy and Environmental Economics, AgroParisTech, Paris	2007
MS, Agronomic and Life Sciences Engineering, AgroParisTech, Paris	2007

## Peer-Reviewed Publications

- Garnache, C. and Mérel, P.R. (2022) “Environmental Policy in General Equilibrium: New Insights from a Canonical Model.” *Journal of the Association of Environmental and Resource Economists*. 9(1):113–140.
- Tanner, S., Lupi, F. and Garnache C. (2022) “Estimating visitor preferences for recreation sites in wildfire prone areas.” *International Journal of Wildland Fire*. 31(9) 871–885.
- Lupi, F., Basso, B., Garnache, C., Herriges, J., Hyndman, D., and Stevenson, R.J. (2020) “Linking Agricultural Nutrient Pollution to the Value of Freshwater Ecosystem Services” *Land Economics*. 96(4):493–509.
- Srivastava, L., Hand, M., Kim, J., Sánchez, J.J., Lupi, F., Garnache, C., Drapek, R.J., and Quinn, J. F. (2020) “How Will Climate Change Affect the Provision and Value of Water from Public Lands in Southern California Through the 21st Century?” *Agricultural and Resource Economics Review*. 49(1):117–149.
- Reeling, C., Horan, R., and Garnache, C. (2020) “When the Levee Breaks: Can Multi-Pollutant Markets Break the Dam on Point-Nonpoint Market Participation?” *American Journal of Agricultural Economics*. 102(2):625–640.

- Reeling, C., Garnache, C., and Horan, R. (2018) “Efficiency Gains from Integrated Multipollutant Trading.” *Resource and Energy Economics*. 52:124–136.
- Garnache, C. and Mérel, P.R. (2017) “The Social Costs of Environmental Goods Provision: A Cautionary Guide to the Revealed-Preference Approach.” *Journal of the Association of Environmental and Resource Economists*. 4(4):1025–1052.
- Garnache, C., Mérel, P.R., Howitt, R.E., and Lee, J. (2017) “Calibration of Shadow Values in Constrained Optimization Models of Agricultural Supply.” *European Review of Agricultural Economics*. 44(3): 363–397. (Lead article)
- Garnache, C., Mérel, P.R., Lee, J., and Six, J. (2017) “The Social Costs of Second-Best Policies: Evidence from Agricultural GHG Mitigation.” *Journal of Environmental Economics and Management*. 82:39–73.
- Klaiman, K., Ortega, D.L., Garnache, C. (2017) “Perceived Barriers to Food Packaging Recycling: Evidence From a Choice Experiment of US Consumers.” *Food Control*. 73(B):291–299.
- Klaiman, K., Ortega, D.L., and Garnache, C. (2016) “Consumer Preferences and Demand for Packaging Material and Recyclability.” *Resources, Conservation & Recycling*. 115:1–8.
- Garnache, C., Swinton, S., Herriges, J.A., Lupi, F., and Stevenson, R.J. (2016) “The Phosphorus Pollution Puzzle: Knowledge Gaps and Directions for Future Research.” *American Journal of Agricultural Economics*. 98(5):1334–1359.
- Garnache, C. and Mérel, P.R. (2015). “What Can Acreage Allocations Say About Supply Elasticities? A Convex Programming Approach to Supply Response Disaggregation.” *Journal of Agricultural Economics*. 66(1):236–256.
- Garnache, C. (2015). “Fish, Farmers, and Floods: Coordinating Institutions to Optimize the Provision of Ecosystem Services.” *Journal of the Association of Environmental and Resource Economists*. 2(3):367–399.

## Working Papers

- “Which households respond to electricity peak pricing amid high levels of electrification?” (with Ø. Hernæs and A. Imenes)
- “The Effect of Climate-Related Risks on the Residential Real Estate Market”

## Selected Work in Progress

- “From Brown to Green: Employment Dynamics and Skill Demand in a Low-Carbon Transition” (with E. Isaksen and M. Nareklishvili)
- “Sticky Asset Prices” (with M. Schmalz and D.E. Sommervoll)
- “Weather-Dependent Asset Prices” (with A. E. Eriksen)

## Other Publications

- Garnache, C., L. Srivastava, J. Sánchez, and F. Lupi. (2018). “Recreation Ecosystem Services from Chaparral Dominated Landscapes: A Baseline Assessment from National Forests in Southern California,” Chapter 10 in *Valuing Chaparral: Ecological, Socio-Economic, and Management Perspectives*, E. Underwood, H. Safford, N. Molinari and J. Keeley (Eds), Springer.
- Garnache, C. (2016) Book Review of *Handbook of Water Economics*, eds A. Dinar and K. Schwabe, *Water Economics and Policy* 2(2):1680003.
- Garnache, C., Lopez, M.C., Pearson, A.L., Richardson, R.B., and Zwickle, A. (2015). “Institutional Analysis, Participatory Mapping, and Water Assessment for Sustainable Community Development in Tanzania.” Report to the Center for Advanced Study of International Development, Michigan State University. International Strategic Partnership Funding.

Howitt, R.E., MacEwan, D., Garnache, C., Medellin Azuara, J., Lee, J., Six, J., Marchand, P., and Brown, D. (2012). “Yolo Bypass Flood Date and Flow Volume Agricultural Impact Analysis,” prepared for Yolo County.

Garnache, C., Rosen-Molina, J.T., and Sumner, D.A. (2010). Economics of Carbon Credits from Voluntary Practices on Rice Farms in the Sacramento Valley. In “Creating and Quantifying Carbon Credits from Voluntary Practices on Rice Farms in the Sacramento Valley: Accounting for Multiple Benefits for Producers and the Environment,” Environmental Defense Fund, Inc. pp11-17

## Awards & Fellowships

Research Excellence Award, Dept. of Ag., Food, and Res. Econ, Michigan State Univ.	2017
Academy for Global Engagement Fellow, Michigan State University	2015
Jastro-Shields Research Grant Fellowship, UC Davis	2012, 2011
Travel Fellowship, Agricultural and Applied Economics Association	2012

## Grants (\* as Lead Principal Investigator)

Norwegian Research Council. 2020-2024. “A-PLANET: Acceptable Policies for the optimal balance between driving and active Transport” (with Ciccone, Antonioni, Halse, Lipari, Wangsness), 8M NOK.

Norwegian Research Council. 2020-2024. “Successful Workforce Transitions in a fast-changing labor market (SWITCH)” (with Isaksen, Røed, Raaum, Markussen), 12M NOK.

\*USDA, NIFA. 2017-2020. “Linking Agricultural Nutrient Pollution to the Value of Freshwater Ecosystem Services” (with Lupi, Herriges, Stevenson, Hyndman, Basso), \$500k.

USDA, NIFA. 2017-2020. “Using Markets to Coordinate the Provision of Multiple Agri-Environmental Services” (with Horan, Shupp, Reeling), \$500k.

\*USDA, NIFA&ERS. 2017-2018. “Effect of Non-monetary Incentives on Phosphorus Use and Conservation Program Participation: A Randomized Controlled Trial” (with Lupi, Herriges, Basso), \$250k.

National Science Foundation. 2015. “Food Energy, Water and Abundance: Improving Cross-Border Governance and Protection of the Great Waters of the World” (with Richardson, Lopez, Pearson, Zwickle), \$90k.

\*USDA Forest Service. 2014-2018. “Estimating the Effect of Wildfire on the Value of Ecosystem Services Provided by National Forests in Southern California” (with Lupi), \$293k.

Michigan State Univ.’s WaterCube Program. 2015-2017. “The Economics of Phosphorus Pollution” (with Herriges, Lupi, Stevenson), \$80k.

Michigan State Univ.’s Center for Packaging Innovation and Sustainability. 2014-2015. “Evaluating the Drivers and Determinants of Consumers’ Willingness to Recycle” (with Ortega), \$87k.

## Invited Presentations

**2022:** Centre for Environmental Economics (Montpellier). **2021:** Shanghai Advanced Institute of Finance (SJTU). **2020:** Toulouse School of Economics, INRAE Paris (Economie Publique); University of Gothenburg; University of Cologne; Business School ESSEC (Paris). **2019:** Copenhagen Business School; BI Oslo Business School (Finance). **2018:** Norwegian School of Economics (NHH); BI Oslo Business School; Frisch Center for Economic Research; Norwegian University of Life Sciences. **2017:** University of Colorado, Boulder; Montana State University; Ohio State University; Michigan State University. **2016:** UC Davis; CESifo Munich; University of Delaware. **2015:** US Forest Service; Michigan State University (Academy for Global Engagement). **2014:** University of Rhode Island. **2013:** University of Michigan; UC Davis; ETH Zurich; USDA Economic Research Service (ERS); INRA Paris-Grignon (Unité Mixte de Recherche d’Economie Publique). **2012:** American River College; Oregon State University; Michigan State University; UC Davis; US Army Corps of Engineers.

## Conferences (\* presentation by co-author)

**2023:** European Meeting of the Urban Economics Association. **2022:** North American Urban Economics Conference. **2021:** CESifo Energy & Climate Economics conference; European Association of Environmental and Resource Economists (EAERE) conference. **2020:** RFS-Yale Conference on Real and Private-Value Assets. **2019:** NBER Energy&Environmental Economics; ASSA (AERE Session). **2018:** World Congress of Environmental & Resource Economics; Agricultural & Applied Economics Association (AAEA) conference. **2017:** Agricultural & Applied Economics Association (AAEA) conference (3 papers)\*. **2016:** ASSA; Festschrift Conference (Davis); European Association of Environmental and Resource Economists (EAERE) conference; Agricultural & Applied Economics Association (AAEA) conference\*. **2015:** Northeast Agricultural & Resource Economics Association (NAREEA) conference\*; Agricultural & Applied Economics Association (AAEA) conference\*; MSU/UM/WMICH Energy&Environmental Economics Day (Ann Arbor). **2014:** American Fisheries Society Meeting; Agricultural & Applied Economics Association (AAEA) conference; International Institute of Fisheries Economics & Trade. **2013:** NBER Energy&Environmental Economics; European Association of Environmental & Resource Economists (AERE) conference; Agricultural & Applied Economics Association (AAEA) conference; MSU/UM/Wayne Energy&Environmental Economics Day (Ann Arbor). **2012:** Agricultural & Applied Economics Association (AAEA) conference. **2011:** Association of Environmental & Resource Economists (AERE) conference; Agricultural & Applied Economics Association (AAEA) conference; European Association of Agricultural Economics International Congress.

## Teaching & Student Advising

Teaching Experience at University of Oslo

ECON2920 - Environmental and Natural Resource Econ., Undergraduate Spring 2020

Teaching Experience at Michigan State University

AFRE 900A - Applied Microeconomics, PhD Fall 2014-2017

AEC 891 - Mathematical Programming for Economists, MS Spring 2014

EEP 255 - Ecological Economics, Undergraduate Fall 2014-2016

Student Advising

Currently co-advisor for 2 PhD students (OsloMet)

Major professor for 2 PhD and 2 MS students (Michigan State U.), 4 MS students (U. of Oslo)

Committee member for 3 PhD students (Michigan State University)

## Service

Journal Refereeing Service (Selected)

*Review of Economic Studies; Journal of the European Economic Association; Journal of the Association of Environmental and Resource Economists; Journal of Environmental Economics and Management; American Journal of Agricultural Economics; European Review of Agricultural Economics; Resource and Energy Economics; Environmental and Resource Economics; Journal of Mathematical Economics; Marine Resource Economics; Scandinavian Journal of Economics*

Grants Refereeing Service

*National Science Foundation; SeaGrant; Great Lakes Fisheries Trust; University of Michigan Water Center Grant; US Environmental Protection Agency*

Guest Associate Editor: *Management Science* (2020)

University Service

OsloMet (Housing Lab)

1 postdoc and 2 PhD recruitment committees 2019, 2020

PhD defence opponent (NTNU, Trondheim; 2020, 2021; Paris, 2022)

University of Oslo

2 postdoc recruitment committees	2019, 2020
Michigan State University	
Faculty recruitment committees	2017, 2018
Environmental Science and Policy Program's faculty advisory committee	2016-2018
Water Science Network's faculty advisory committee	2016-2018
College undergraduate curriculum committee	2016-2018
Graduate admission committee	2018
Departmental seminar committee (chair/co-chair)	2014-2016
Graduate Student symposium (organizer/co-organizer)	2014-2016
PhD dissertation award committee	2013-2014
Environmental and Resource Economics's field exam committee	2013, 2016
Env. Science and Policy Program's summer research fellowship committee	2017, 2018
Env. Econ. and Management's Undergraduate major fellowship committee	2016, 2018
Professional Service & Activities	
AAEA Environmental Economics track Paper Session (organizer)	2018
AAEA Invited Paper Session at the ASSA meeting (organizer)	2016
AAEA Annual Meeting Selected Papers Committee (member)	2017-2018
AAEA Selected Presentations Committee (reviewer)	2017-2018
European Economic Association Annual Congress Program Committee (reviewer)	2016

## Personal

Two children: born in 2017 and 2021