

CONTACT INFORMATION	Agricultural and Resource Economics University of California, Davis 1 Shields Avenue Davis, CA 95616, United States	<i>Phone:</i> +1 (530) 752 8276 <i>Fax:</i> +1 (530) 752 5614 <i>E-mail:</i> merel@primal.ucdavis.edu
RESEARCH INTERESTS	agricultural economics, environmental economics, industrial organization, climate change	
EDUCATION	<p>University of California, Davis, Davis, CA, USA <i>Agricultural and Resource Economics</i></p> <p>Ph.D., June 2007</p> <p>École Nationale du Génie Rural, des Eaux et des Forêts, Paris, France Master of Engineering, December 2001</p> <p>École Polytechnique, Palaiseau, France Master of Engineering, August 1999</p>	
PROFESSIONAL APPOINTMENTS	<p>Department of Agricultural and Resource Economics, UC Davis, Davis, CA USA</p> <p><i>Full Professor</i> July 2018 - present</p> <p><i>Chair of the Graduate Program</i> September 2017 - present</p> <p><i>Associate Professor</i> July 2012 - June 2018</p> <p><i>Assistant Professor</i> September 2007 - June 2012</p> <p>Department of Environmental Systems Science, ETH, Zurich, Switzerland</p> <p><i>Full Professor</i> June 2013 - August 2014</p> <p><i>Member of the ETH World Food System Center</i></p> <p>French Ministry of Agriculture, Food Safety Department, Paris, France</p> <p><i>Chargé de mission</i> December 2001 - August 2003</p>	
HONORS AND AWARDS	<p>Nominated for the 10th annual ASUCD Excellence in Education Awards, 2012</p> <p>Best paper by a young researcher at the XII EAAE Congress, Ghent, Belgium, 2008</p> <p>Gordon A. King for best dissertation, Department of Agricultural and Resource Economics, UC Davis, 2008</p> <p>Formation complémentaire par la recherche (4-year fellowship), Ministry of Agriculture, France</p>	
PROFESSIONAL SERVICE	<p>European Review of Agricultural Economics: Editorial Board member, 2015–2017</p> <p>American Journal of Agricultural Economics: Associate Editor, 2016–2019</p>	
GRANTS	<p>Giannini Foundation research mini-grant (\$27,000): The potential for adaptation to climate change in field crop production, 2018-2019</p> <p>Giannini Foundation research mini-grant (\$27,000): Can public institutions resolve information asymmetries? Historical evidence from the French wine market (joint with Ariel Ortiz-Bobea,</p>	

Cornell University), 2014-2015

COST/SEFRI (CHF 167,000): Economic impact evaluation of integrated ragweed management, 2014-2016

CDFA/Office of Pesticide Consultation and Analysis (\$349,000): Economic Effects of CDPR Regulations on California Agriculture (co-PI, PI Rachael Goodhue), 2011-2013

USDA/ERS Cooperative agreement (\$107,000): US agriculture's response to a carbon market: a PMP approach under full calibration, 2010-2013

ASI/Packard Foundation grant for nitrogen research (\$34,000), 2010-2011

Giannini Foundation research mini-grant (joint with Richard Sexton), 2009-2010

PUBLICATIONS

Anderson, Sarah E., Terry L. Anderson, Alice C. Hill, Matthew E. Kahn, Howard Kunreuther, Gary D. Libecap, Hari Mantripragada, Pierre Mérel, Andrew J. Plantinga, and V. Kerry Smith (2019). The critical role of markets in climate change adaptation, *Climate Change Economics*, forthcoming.

Carter, Colin, Xiaomeng Cui, Dalia Ghanem, and Pierre Mérel (2018). "Identifying the Economic Impacts of Climate Change on Agriculture." *Annual Review of Resource Economics*, Vol. 10, pp. 361–380.

Gammans, Matthew, Pierre Mérel, and Ariel Ortiz-Bobea (2017). "The Impact of Climate Change on Grain Production: The Case of French Cereals." *ARE Update*, Vol. 20(6), pp. 1–4.

Garnache, Cloé and Pierre Mérel (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*, Vol. 4(4), pp. 1025–1052.

Gammans, Matthew, Pierre Mérel, and Ariel Ortiz-Bobea (2017). "Negative impacts of climate change on cereal yields: Statistical evidence from France." *Environmental Research Letters*, Vol. 12(5), 054007.

Garnache, Cloé, Pierre Mérel, Richard Howitt, and Juhwan Lee (2017). "Calibration of Shadow Values in Constrained Optimisation Models of Agricultural Supply." *European Review of Agricultural Economics*, Vol. 44(3), pp. 363–397 (lead article).

Mérel, Pierre and Richard J. Sexton (2017). "Buyer power with atomistic upstream entry: Can downstream consolidation increase production and welfare?" *International Journal of Industrial Organization*, Vol. 50, pp. 259–293.

Garnache, Cloé, Pierre Mérel, Juhwan Lee and Johan Six (2017). "The social costs of second-best policies: Evidence from agricultural GHG mitigation." *Journal of Environmental Economics and Management*, Vol. 82, pp. 39–73.

Carter, Colin A. and Pierre Mérel (2016). "Hidden Costs of Supply Management in a Small Market." *Canadian Journal of Economics*, Vol. 49(2), pp. 555–588.

Mérel, Pierre, Tina L. Saitone and Richard J. Sexton (2015). "Cooperative Stability under Stochastic Quality and Farmer Heterogeneity." *European Review of Agricultural Economics* (special issue), Vol. 42(5), pp. 765–795.

Garnache, Cloé and Pierre Mérel (2015). "What can acreage allocations say about crop supply elasticities? A convex programming approach to supply response disaggregation." *Journal of Agricultural Economics*, Vol. 66(1), pp. 236–256.

- Mérel, Pierre and Richard Howitt (2014). "Theory and Application of Positive Mathematical Programming in Agriculture and the Environment." *Annual Review of Resource Economics*, Vol. 6, pp. 451–470.
- Graveline, Nina and Pierre Mérel (2014). "Intensive and extensive margin adjustments to water scarcity in France's Cereal Belt." *European Review of Agricultural Economics*, Vol. 41(5), pp. 707–743 (lead article).
- Mérel, Pierre, Aaron Smith, Jeffrey Williams and Emily Wimberger (2014). "Cars on Crutches: How Much Abatement Do Smog Check Repairs Actually Provide?" *Journal of Environmental Economics and Management*, Vol. 67(3), pp. 371–395.
- Yi, Fujin, Pierre Mérel, Juhwan Lee, Y. Hossein Farzin and Johan Six (2014). "Switchgrass in California: Where, and at What Price?" *GCB Bioenergy*, Vol. 6(6), pp. 672–686.
- Mérel, Pierre, Fujin Yi, Juhwan Lee and Johan Six (2014). "A Regional Bio-Economic Model of Nitrogen Use in Cropping." *American Journal of Agricultural Economics*, Vol. 96(1), pp. 67–91.
- Mérel, Pierre and Emily Wimberger (2012). "Improving Air Quality in California's San Joaquin Valley: The Role of Vehicle Heterogeneity in Optimal Emissions Abatement." *Journal of Environmental Economics and Management*, Vol. 63(2), pp. 169–186.
- Mérel, Pierre and Richard Sexton (2012). "Will Geographical Indications Supply Excessive Quality?" *European Review of Agricultural Economics*, Vol. 39(4), pp. 567–587.
- Tomich, T. P., S. Brodt, H. Ferris, R. Galt, W. R. Horwath, E. Kebreab, J. Leveau, D. Liptzin, M. Lubell, P. Mérel, R. Micheltore, T. Rosenstock, K. Scow, J. Six, N. Williams and L. Yang (2011). "Agroecology: A Review from a Global Change Perspective." *Annual Review of Environment and Resources*, Vol. 36, pp. 193–222.
- Mérel, Pierre, Leo K. Simon and Fujin Yi (2011). "A Fully Calibrated Generalized Constant-Elasticity-of-Substitution Programming Model of Agricultural Supply." *American Journal of Agricultural Economics*, Vol. 93(4), pp. 936–948.
- Mérel, Pierre (2011). "Institutional Market Power in Comté: Insights from a 'Double Marginalisation' Model." *Journal of Agricultural Economics*, Vol. 62(3), pp. 585–603.
- Mérel, Pierre, Fujin Yi, Santiago Bucaram, Juhwan Lee, Richard Howitt and Johan Six (2011). "Incorporating yield information from a biogeochemical model into an agricultural production model to infer adoption of a new bioenergy crop." In *Bio-economic models applied to agricultural systems*, edited by G. Flichman.
- Mérel, Pierre R. and Richard J. Sexton (2011). "Models of Horizontal Product Differentiation in Food Markets." In *Oxford Handbook on the Economics of Food Consumption and Policy*, edited by J. Lusk, J. Roosen and J. Shogren.
- Mérel, Pierre and Santiago Bucaram (2010). "Exact Calibration of Programming Models of Agricultural Supply against Exogenous Supply Elasticities." *European Review of Agricultural Economics*, Vol. 37(3), pp. 395–418.
- Mérel, Pierre R. and Richard J. Sexton (2010). "Kinked-Demand Equilibria and Weak Duopoly in the Hotelling Model of Horizontal Differentiation." *The B.E. Journal of Theoretical Economics*, Vol. 10, Iss. 1 (Contributions), Article 12.

Mérel, Pierre R., Tina L. Saitone and Richard J. Sexton (2009). "Cooperatives and Quality-Differentiated Markets: Strengths, Weaknesses, and Modeling Approaches." *Journal of Rural Cooperation* (special issue), Vol. 37(2), pp. 201–224.

Mérel, Pierre R. (2009). "Measuring Market Power in the French Comté Cheese Market." *European Review of Agricultural Economics*, Vol. 36(1), pp. 31–51.

Mérel, Pierre R. (2009). "On the Deadweight Cost of Production Requirements for Geographically Differentiated Agricultural Products." *American Journal of Agricultural Economics*, Vol. 91(3), pp. 642–655.

Mérel, Pierre R., Richard J. Sexton and Aya Suzuki (2009). "Optimal Investment in Transportation Infrastructure When Middlemen Have Market Power: A Developing-Country Analysis." *American Journal of Agricultural Economics*, Vol. 91(2), pp. 462–476.

Mérel, Pierre R. and Colin A. Carter (2008). "A Second Look at Managing Import Risk from Invasive Species." *Journal of Environmental Economics and Management*, Vol. 56(3), pp. 286–290.

WORKING PAPERS

Climate econometrics: Can the panel approach account for long-run adaptation? (with Matthew Gammans) *paper available for download*

How big is the 'lemons' problem? Historical evidence from French appellation wines (with Ariel Ortiz-Bobea and Emmanuel Paroissien)

The short-run impacts of immigration on native workers: A sectoral approach (with Zach Rutledge)

Climate change and California agriculture, chapter written for Giannini Foundation publication (with Katrina Jessoe and Ariel Ortiz-Bobea)

OTHER RESEARCH IN PROGRESS

Do climate signals matter? Evidence from French and US agriculture (with Matthew Gammans and Xiaomeng Cui)

Double-cropping and adaptation to climate change in the United States (with Matthew Gammans and Ariel Ortiz-Bobea)

On the use of the envelope theorem in climate change impact assessment

RECENT SEMINAR AND CONFERENCE PRESENTATIONS

Department of Economics, Iowa State University. October 2018. "How big is the 'lemons' problem? Historical evidence from French appellation wines."

AAEA Annual Meeting, Washington, DC. August 2018. "Climate econometrics: Can the panel approach account for long-run adaptation?" (presented by Matthew Gammans).

Department of Agricultural and Resource Economics, University of California, Berkeley. November 2017. "Can the panel approach account for long-run adaptation? Theory and evidence from France."

Department of Agricultural and Resource Economics, University of California, Davis. October 2017. "Long-run impacts of climate change on crop yields: Estimation framework and evidence from France" (presented with Matthew Gammans).

USDA/ERS, Washington, DC. September 2017. "Long-Run Impacts of Climate Change on Cereal Yields: Estimation Framework and Evidence from France."

AAEA Annual Meeting, Chicago, IL. August 2017. "The impacts of immigration on native workers: Evidence from the U.S. construction sector."

AAEA Annual Meeting, Chicago, IL. July 2017. "Long-Run Impacts of Climate Change on Crop Yields: Estimation Framework and Evidence from France."

Department of Agricultural and Resource Economics, University of California, Berkeley. April 2017. "The statistical approach to climate change impact assessment in agriculture: New evidence from France, and a few words of caution."

Department of Agricultural Economics, Purdue University. November 2016. "The impact of climate change on cereal yields: Statistical evidence from France."

AAEA Annual Meeting, Boston, MA. August 2016. "The impact of climate change on cereal yields: Statistical evidence from France" (presented by Matthew Gammans).

EAERE Annual Conference, Zurich, Switzerland. June 2016. "Calibration of Shadow Values in Constrained Optimization Models of Agricultural Supply" (presented by Cloé Garnache).

EAERE Annual Conference, Zurich, Switzerland. June 2016. "On the derivation of second-best marginal abatement cost curves."

UC Davis–University of Göttingen workshop. June 2016. "The impact of climate change on cereal yields: Statistical evidence from France."

Dyson School of Applied Economics and Management, Cornell University. February 2015. "The Social Costs of Second-Best Policies: Evidence from Agricultural Greenhouse Gas Mitigation."

Department of Agricultural and Resource Economics, University of California, Davis. November 2014. "Don't Bottle Lemons: A Brief History of the Regulation of Fine Wines in France, 1905-1935."

Workshop on producers' organizations in agricultural markets, Toulouse School of Economics, France. September 2014. "Cooperative Stability under Stochastic Quality and Farmer Heterogeneity" (presented by Richard Sexton).

Workshop on producers' organizations in agricultural markets, Toulouse School of Economics, France. September 2014. "Downstream Concentration and Endogenous Upstream Supply."

Lunch Seminar in Energy, Environmental and Resource Economics, ETH Zurich. November 2013. "Markets for Agricultural Greenhouse Gas Offsets: The Role of Payment Design on Abatement Efficiency" (presented by Cloé Garnache).

Department of Agricultural and Resource Economics, University of California, Berkeley. November 2012. "Cars on Crutches: How Much Abatement Do Smog Check Repairs Actually Provide?"

American Soil Association International Annual Meeting, Cincinnati, OH. October 2012. "A Regional Bio-economic Model of Nitrogen Use in Cropping."

AERE Summer conference, Asheville, NC. June 2012. "Cars on Crutches: How Much Abatement Do Smog Check Repairs Actually Provide?"

Department of Environmental Systems Science, ETH Zurich. May 2012. "A Regional Bio-economic Model of Nitrogen Use in Cropping."

Department of Agricultural and Resource Economics, University of California, Davis. December 2011. "A Regional Bio-economic Model of Nitrogen Use in Cropping."

European Association of Agricultural Economists Congress, Zurich, Switzerland. August 2011. "Will Geographical Indications Supply Excessive Quality?"

European Association of Agricultural Economists Congress, Zurich, Switzerland. August 2011. "Calibrating a Regional PMP Model of Agricultural Supply under Multiple Constraints: A Set of Matryoshka Doll Conditions." (poster presented by Cloé Garnache)

AAEA Annual Meeting, Pittsburgh, PA. July 2011. "Assessing the Opportunity Cost of Growing a Bioenergy Crop in California: a PMP Approach" (presented by Fujin Yi).

AERE Summer conference, Seattle, WA. June 2011. "Improving Air Quality in California's San Joaquin Valley: The Role of Vehicle Heterogeneity in Optimal Emissions Abatement" (presented by Emily Wimberger).

Department of Agricultural Economics, University of Nebraska-Lincoln. November 2010. "A Fully Calibrated Generalized CES Programming Model of Agricultural Supply: Some Theory and an Application."

Department of Economics, Iowa State University. October 2010. "A Fully Calibrated Generalized CES Programming Model of Agricultural Supply: Some Theory and an Application to Biofuel Crop Adoption."

AAEA Annual Meeting, Denver, CO. July 2010. "A Fully Calibrated Generalized CES Programming Model of Agricultural Supply" (presented by Fujin Yi).

INRA-IDEI Conference on Industrial Organization and the Food Processing Industry, Toulouse, France. June 2010. "A Fully Calibrated Generalized CES Programming Model of Agricultural Supply" (presented by Leo Simon).

INRA-IDEI Conference on Industrial Organization and the Food Processing Industry, Toulouse, France. June 2010. "Do European Geographical Indications Supply Excessive Quality?"

Joint Mathematics Meetings, San Francisco, CA. SIAM mini symposium on economics and sustainability. January 2010. "Exact Calibration of Programming Models of Agricultural Supply Against Exogenous Sets of Supply Elasticities."

International Food Festival, Burlington, VT. July 2009. Round table "Evolution of Sustainable Agriculture in Vermont", discussion "Appellation d'origine contrôlée (AOC)."

CURRENT TEACHING Applied microeconomics (Ph.D.)
Microeconomic theory and applications (Masters)