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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>E-mail:</i> <a href="mailto:merel@primal.ucdavis.edu">merel@primal.ucdavis.edu</a>
CURRENT RESEARCH INTERESTS	agricultural economics, environmental economics, industrial organization, climate change, food policy	
EDUCATION	<p><b>University of California, Davis</b>, Davis, CA, USA <i>Agricultural and Resource Economics</i> Ph.D., June 2007 Dissertation Committee: Colin A. Carter, Richard J. Sexton, Daniel A. Sumner</p> <p><b>École Nationale du Génie Rural, des Eaux et des Forêts</b>, Paris, France Master of Engineering, December 2001</p> <p><b>École Polytechnique</b>, Palaiseau, France Master of Engineering, August 1999</p>	
PROFESSIONAL APPOINTMENTS	<p><b>Department of Agricultural and Resource Economics, UC Davis</b>, Davis, CA USA <i>Full Professor</i> <span style="float: right;"><b>July 2018 - present</b></span> <i>Chair of the Graduate Program</i> <span style="float: right;"><b>September 2017 - August 2020</b></span> <i>Associate Professor</i> <span style="float: right;"><b>July 2012 - June 2018</b></span> <i>Assistant Professor</i> <span style="float: right;"><b>September 2007 - June 2012</b></span></p> <p><b>Department of Environmental Systems Science, ETH</b>, Zurich, Switzerland <i>Full Professor</i> <span style="float: right;"><b>June 2013 - August 2014</b></span> <i>Member of the ETH World Food System Center</i></p> <p><b>French Ministry of Agriculture, Food Safety Department</b>, Paris, France <i>Chargé de mission</i> <span style="float: right;"><b>December 2001 - August 2003</b></span></p>	
HONORS AND AWARDS	<p>Fellow of the Paris Institute for Advanced Study, award received in 2019 (visit January-June 2021)</p> <p>Christophe Baron Prize for the Best Conference Presentation, 13th annual conference of the American Association of Wine Economists, 2019</p> <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>American Journal of Agricultural Economics: Associate Editor, 2016–2019</p> <p>European Review of Agricultural Economics: Editorial Board member, 2015–2017</p>	

## GRANTS

- Giannini Foundation research mini-grant (\$30,000): The Effects of a Declining Farm Labor Supply on Fruit and Vegetable Production in California
- Giannini Foundation research mini-grant (\$30,000): Farmworkers and Nonfarm Work: How Many Are Leaving and Why, 2019-2020
- Giannini Foundation research mini-grant (\$27,000): The potential for adaptation to climate change in field crop production, 2018-2019
- 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, 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

- Farm Labor Supply and Fruit and Vegetable Production (with Zachariah Rutledge). Conditionally accepted at the *American Journal of Agricultural Economics*.
- Mérel, Pierre and Zachariah Rutledge (2022). "The short-run impacts of immigration on native workers: A sectoral approach." Forthcoming in *World Scientific Handbook of Global Migration*, edited by Robert M. Sauer.
- Garnache, Cloé and Pierre Mérel (2021). "Environmental Policy in General Equilibrium: New Insights from a Canonical Model." *Journal of the Association of Environmental and Resource Economists*, Vol. 9(1), pp. 113–140.
- Mérel, Pierre, Ariel Ortiz-Bobea and Emmanuel Paroissien (2021). "How Big is the 'Lemons' Problem? Historical Evidence from French Wines." *European Economic Review*, Vol. 138, 103824. Summary written for the Newsletter of the Royal Economic Society available [here](#).
- Mérel, Pierre and Matthew Gammans (2021). "Climate econometrics: Can the panel approach account for long-run adaptation?" *American Journal of Agricultural Economics*, Vol. 103(4), pp. 1207–1238, <https://doi.org/10.1111/ajae.12200>.
- Jessoe, Katrina, Pierre Mérel, and Ariel Ortiz-Bobea (2020). "Climate change and California agriculture." In *California Agriculture: Dimensions and Issues*, edited by Philip L. Martin, Rachael E. Goodhue, and Brian D. Wright. Available [here](#).
- 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 (2018). The critical role of markets in climate change adaptation, *Climate Change Economics*, Vol. 10(1), <https://doi.org/10.1142/S2010007819500039>. (Also NBER Working Paper 24645)
- 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(1), 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. Michelmore, 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

Reckoning climate change damages along an envelope (with Matthew Gammans and Emmanuel Paroissien) *paper available upon request*

Double cropping to slightly offset the negative impacts of warming on US crop yields (with Matthew Gammans and Ariel Ortiz-Bobea) *paper available upon request*

OTHER RESEARCH IN ORGANIC FOOD AND THE POOR (with Richard Sexton)  
PROGRESS

The impact of federal milk marketing orders on dairy supply and welfare (with Tristan Hanon)

RECENT SEMINAR AND DEPARTMENT OF APPLIED ECONOMICS, NATIONAL CHUNG HSING UNIVERSITY, TAIWAN. NOVEMBER 2021.  
CONFERENCE "How big is the 'lemons' problem? Historical evidence from French wines."  
PRESENTATIONS

Paris Institute for Advanced Study. June 2021. "Les effets économiques de la création des AOC viticoles en France: Analyse de la loi Capus."

Université Paris-Saclay. May 2021. "Double cropping as an adaptation to climate change in the United States."

Paris Institute for Advanced Study. March 2021. "Assessing Food Policies with Economic Data."

ASSA Virtual Annual Meeting. January 2021. "How big is the 'lemons' problem? Historical evidence from French wines."

UC-EE Seminar. December 2020. "Reckoning climate change damages along an envelope."

SEA Annual Meeting, New Orleans, LA. November 2020. "How big is the 'lemons' problem? Historical evidence from French wines."

Department of Agricultural and Resource Economics, University of California, Berkeley. March 2020. "How big is the 'lemons' problem? Historical evidence from French wines."

ASSA Annual Meeting, San Diego, CA. January 2020. "Do climate signals matter? Evidence from agriculture." (presented by Matthew Gammans)

AAEA Annual Meeting, Atlanta, GA. July 2019. "The Short-Run Impacts of Immigration on Native Workers: A Sectoral Approach." (presented by Zachariah Rutledge)

AAEA Annual Meeting, Atlanta, GA. July 2019. "Double cropping will not offset the negative impacts of warming on US crop yields." (presented by Matthew Gammans)

AAWE Annual conference, Vienna, Austria. July 2019. "How big is the 'lemons' problem? Historical evidence from French appellation wines." (winner of the Christophe Baron prize for Best Conference Presentation)

10th Conference on Industrial Organization and the Food Industry, Toulouse, France. June 2019. "How big is the 'lemons' problem? Historical evidence from French appellation wines." (presented by Emmanuel Paroissien)

AERE Summer conference, Lake Tahoe, NV. May 2019. "Disentangling short- and long-run responses of economic outcomes to climate in a panel approach with fixed effects."

Department of Resource Economics and Environmental Sociology, University of Alberta, Canada. March 2019. "How big is the 'lemons' problem? Historical evidence from French appellation wines."

Department of Agricultural Economics, Purdue University. December 2018. "How big is the 'lemons' problem? Historical evidence from French appellation wines."

Department of Agricultural and Resource Economics, University of California, Davis. November 2018. "How big is the 'lemons' problem? Historical evidence from French appellation wines."

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."

PH.D. STUDENT  
SUPERVISION

*As chair or co-chair:*

Fujin Yi (2012)  
Cloé Garnache (2013)  
Kjersti Nes (2018)  
Matthew Gammans (2020)  
Zachariah Rutledge (2020)  
Qi Wu (current)  
Daria Ageikina (current)

*As member:*

David Corderi (2011)  
Emily Wimberger (2011)  
Karen Thome (2012)  
Dingqiang Sun (2013)  
Wenbo Zou (2016)  
Ellen Bruno (2018)  
Xiaomeng Cui (2018)  
Javier Parada (2018)  
Jesus Arellano Gonzalez (2020)  
Tristan Hanon (current)  
Sarah Smith (current)

Yijing Wang (current)

CURRENT TEACHING Applied microeconomics (Ph.D.)  
Microeconomic theory and applications (Masters)  
Economics of agricultural sustainability (Undergraduate, Winter 2022)