

Scott Somerville

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Education

University of California, Davis	Expected completion: 2024
Ph.D. Agricultural and Resource Economics Committee: Pierre Mérel, Rachael E. Goodhue, and Brittney Goodrich Dissertation: Environmental Impacts of Land Use and Agricultural Production	
University of Reading	2016-2017
M.Sc. Agricultural Economics	
University of Glasgow	2009-2013
B.Sc. Applied Animal Science	

Research Experience

Research assistant for Professor Rachael Goodhue, UC Davis	2024-Present
Research assistant for Professor Brittney Goodrich, UC Davis	2022-2024
Research assistant for Professor Daniel A. Sumner, UC Davis	2019-2022

Teaching Experience

Teaching assistant, Agricultural Policy, UC Davis	2019
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Professional Experience

Data analyst at Informa, London, United Kingdom	2017-2018
Account manager at Galloway and MacLeod, Stonehouse, Scotland, United Kingdom	2013-2016

Working Papers

- “The Impact of Land Use on Water Quality: Evidence from California Wells.” Job market paper.
- “Spatially Targeted and Differentiated Pesticide Policy: The Case of the Groundwater Protection Program.” Co-authored with Brittney Goodrich.
- “Does Mating Disruption Decrease Insecticide Use? Evidence from Navel Orangeworm Management in California Tree Nut Orchards.” Co-authored with Brittney Goodrich.
- “Economics of By-Product Feeds in Dairy Rations, With Implications for Resource Use and Environmental Consequences.” Co-authored with Jarrett Hart and Daniel A. Sumner.

Peer-Reviewed Publications

- Somerville, Scott and Brittney K. Goodrich. 2023. “Economics of Navel Orangeworm Management in Almond and Pistachio Orchards.” ARE Update 27(2): 5–8. University of California Giannini Foundation of Agricultural Economics.
- Sumner, Daniel A., Tristan M. Hanon, and Scott Somerville. 2021. “Effects of the COVID-19 Pandemic on the Western Dairy Industry.” *Western Economics Forum* 19(1):33-50.

- Sumner, Daniel A., Carlyn Marsh, Quaid Moore, Scott Somerville and Josué Medellín-Azuara. 2021. “California Farms Adjust to Drought.” *ARE Update* 25(1): 6–9. University of California Giannini Foundation of Agricultural Economics.
- Sumner, Daniel A., Elizabeth A. Fraysse, Scott Somerville, and Josué Medellín-Azuara. 2021. “Drought Impacts on California Farm Revenue and Prices.” *ARE Update* 25(1): 10–12. University of California Giannini Foundation of Agricultural Economics.
- Somerville, Scott, Daniel A. Sumner, James Fadel, Ziyang Fu, Jarrett D. Hart, and Jennifer Heguy. 2020. “By-Product Use in California Dairy Feed Has Vital Sustainability Implications.” *ARE Update* 24(2):5–8. University of California Giannini Foundation of Agricultural Economics.
- Robinson, Elizabeth J. Z., Scott Somerville, and Heidi J. Albers. 2019. “The economics of REDD through an incidence of burdens and benefits lens.” *International Review of Environmental and Resource Economics* 13(1-2):165-202.

Presentations

- “Does Mating Disruption Decrease Insecticide Use? Evidence from Navel Orangeworm Management in California Tree Nut Orchards.” Co-authored with Brittney Goodrich. California Department of Pesticide Regulation Pesticide Use Reporting Workshop, August 2nd, 2023.
- “Does Mating Disruption Decrease Insecticide Use? Evidence from Navel Orangeworm Management in California Tree Nut Orchards.” Co-authored with Brittney Goodrich. Agricultural and Applied Economics Association Annual Meeting, Washington DC, July 25th, 2023.
- “Economics of Livestock Farming and Nitrate Pollution.” Nature Policy Lab at UC Davis, November 2022.
- “The Hull Truth: Economic and Resource Consequences of Using Almond Hulls in Dairy Cattle Feed Rations.” Giannini Agricultural and Resource Economics Student Conference at UC Berkeley, May 2022.
- “Economics of By-Product Feeds in Dairy Rations, With Implications for Resource Use and Environmental Consequences.” Agricultural and Applied Economics Association Annual Meeting in Austin, Texas, August 2021.

Poster Presentations

- “Crop Choice and Nitrate Pollution in Groundwater.” Co-authored with Jeffrey Hadacheck. Presented at Agricultural and Applied Economics Association Annual Meeting, Washington DC, July 25th, 2023.
- “Cost and Returns of Navel Orangeworm Management.” Co-authored with Brittney Goodrich. Presented at the Almond Board Annual Conference, Sacramento, California, December 2022.
- “Economics of By-Product Use in Dairy Feed Rations Including Resource Consequences.” Co-authored with Daniel A. Sumner, Mary Beth de Ondarza, and Juan M. Tricarico. Presented at the California Dairy Sustainability Summit, Sacramento, California, April 2022.
- “Herd Size Trends with USDA Census Data.” Co-authored with Elizabeth A. Fraysse and Daniel A. Sumner. Presented at the California Dairy Sustainability Summit, Sacramento, California, October 2020.

Industry and Media Features

“Economic Considerations for Navel Orangeworm Management in Almond Orchards.” With Brittney Goodrich. Published in West Coast Nut, July 2023.

“The vital Role of By-Product Use in California Dairy Feed Rations.” With Daniel A. Sumner, James Fadel, Ziyang Fu, and Jarrett D. Hart. Published in Progressive Dairy, October 2021.

Interview with Tim Hammerrich on by-product feed use on California dairies. Broadcast on California Ag Today on January, 27th 2021.

Research featured in Dairy Business. “Dairies upcycle California farm by-products.” Published in December 2020.

Reports

Daniel A. Sumner, Scott Somerville, James Fadel, Ziyang Fu, Jarrett Hart, and Jennifer Heguy. 2020. “Economic and Related Impacts of Using By-Products as Dairy Feed in California.” A report for the California Dairy Research Foundation. University of California, Agricultural Issues Center, in collaborations with the departments of Agricultural and Resource Economics and Animal Science, UC Davis and UC Cooperative Extension

Publications in Other Disciplines

Andrés M López-Pérez, Octavio López-Fernández, Laura Backus, Scott Somerville, Heliot Zarza, Ivonne Cassaigne, Antonio de la Torre, Rodrigo Nuñez-Perez, Gerardo Ceballos, Carmen Guzmán-Cornejo, Susana Ringenbach-Valdez, Miguel A Del Rio, Sokani Sánchez-Montes, Dorian Canek Anguiano, Janet Foley. 2022. “Spatial distribution patterns of tick community structure in sympatric jaguars (*Panthera onca*) and pumas (*Puma concolor*) from three ecoregions in Mexico.” *Medical and Veterinary Entomology* 36(3):371-380.

Grants

Henry A. Jastro Graduate Research Scholarship Award - \$3,000	2022
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Other Training

Diversity and Inclusion in Research, Education, and Career Training Program - Graduate Inclusive Education and Mentoring Training	2022
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Service

Student Café Coordinator for Managerial Economics Undergraduate Students, UC Davis	Jan.-Jun. 2023
Agricultural and Resource Economics Graduate Student Association President, UC Davis	2022-present
Agricultural Economics Workshop Student Coordinator, UC Davis	2021-2022
Chair of the organizing committee of National Sheep Association of Scotland ScotSheep	2015-2016
Chair of the Scottish Association of Young Farmers Agri and Rural Affairs Committee	2013-2015
Regional Advisor to the South of Scotland Board of the Moredun Research Institute	2012-2017

Awards

Scott McNiven Community Service Award Recipient, ARE UC Davis	2023
Debate winner of the Oxford Farming Conference	2013
Worshipful Company of Farmers Young Advocate for Agriculture	2012