

# SARAH C. WHITNALL

Née Smith

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## RESEARCH FIELDS

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Agricultural Economics, Econometrics, Extreme Weather, Climate Change, Adaptation, Remote Sensing

## EMPLOYMENT

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**Lecturer** 2025–Present

*University of Western Australia*

**Postdoctoral Scholar** 2023–2025

*University of California, Davis*

**Visiting Researcher** 2024–2025

*Commonwealth Scientific and Industrial Research Organisation (CSIRO)*

**Research Assistant** 2019–2022

*University of California, Davis*

Research Assistant for Timothy K.M. Beatty and Julian M. Alston

## Teaching

*University of California, Davis*

Instructor for ARE 139: Futures & Options Markets 2021

Teaching Assistant for ARE 172: Financial Management of the Firm 2019

**Economist and Commodity Analyst** 2016–2018

*Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES)*

## EDUCATION

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**Ph.D. in Agricultural and Resource Economics** 2018–2023

*University of California, Davis*

**Bachelor of Resource Economics (Honours Class 1 and the University Medal)** 2012–2015

*University of Sydney*

## RESEARCH

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### Publications

Whitnall, S.C. & T.K.M. Beatty (2026). Climate Change and Field-level Crop Quality, Yield, and Revenue. *Journal of the Association of Environmental and Resource Economists*, 13(1), 261–291.

Whitnall, S.C. & T.K.M. Beatty (2025). Postharvest Losses from Temperature during Transit: Evidence from a Million Truckloads. *American Journal of Agricultural Economics*. In press.

Whitnall, S. & J. Alston (2025). Climate, Weather, and Collective Reputation: Implications for California's Wine Prices and Quality. *Journal of Wine Economics*, 20, 122–167. Companion piece to *HDSR* publication.

Whitnall, S. & J. Alston (2025). Implications of Climate Change for Prices of Ultra-Premium Cabernet Sauvignon Wines from California. *Harvard Data Science Review*, 7(2). Companion piece to *JWE* publication.

Cuffey, J., K. Newby & S. Smith (2024). Social Inequity in Administrative Burdens: Evidence from SNAP. *Public Administration Review*, 84(2), 338-356.

Smith, S.C. & D. Ubilava (2017). The El Niño Southern Oscillation Cycle and Growth in the Developing World. *Global Environmental Change*, 45, 151-164.

## Working Papers

Whitnall, S.C. & K. Ricketts. Climate Change and Labour Market Strain: Heat Stress Impacts on Farmworker Productivity and Farm Viability.

Whitnall, S.C. Margins of Response to Water Scarcity in Irrigated Agriculture.

Hill, A.E., S.C. Whitnall, E.C.A. Saunders & T.K.M. Beatty. Welfare Program Participation Among US Farmworkers: Comparing participation and its determinants in three national surveys.

## Outreach Material

Ricketts, K. & S. Whitnall (2025). From Heat Stress to Economic Stress: Exploring the Future of Australian Agricultural Labour and Productivity. *Farm Policy Journal*, Australian Farm Institute, 22(1),80-95.

Smith, S. (2017). Wheat. *Agricultural Commodities: December quarter 2017* ABARES.

Smith, S. (2017). Wheat quality explained. *Agricultural Commodities: September quarter 2017* ABARES.

Smith, S. (2017). Wheat. *Agricultural Commodities: September quarter 2017* ABARES.

Smith, S. (2017). Wheat. *Agricultural Commodities: June quarter 2017* ABARES.

Smith, S. (2017). Wheat outlook. *Agricultural Commodities: March quarter 2017* ABARES.

Smith, S. & A. Cameron (2017). Horticulture outlook. *Agricultural Commodities: March quarter 2017* ABARES.

Brown, A., J. Fell, S. Smith & H. Valle (2016). Australian grains: Outlook for 2016–17 and industry productivity. *ABARES report prepared for the Grains Research and Development Corporation* ABARES.

Smith, S. (2016). Wheat. *Agricultural Commodities: December quarter 2016* ABARES.

Smith, S. (2016). The EU almond industry. *Agricultural Commodities: September quarter 2016* ABARES.

Smith, S. (2016). Wheat. *Agricultural Commodities: September quarter 2016* ABARES.

Smith, S. & J. Hogan (2016). Trade in fresh fruit and vegetables. *Agricultural Commodities: June quarter 2016* ABARES.

## PRESENTATIONS AND SEMINARS

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- 2025 AARES Annual Meeting, Brisbane; CSIRO Ag2050 Economics Symposium, Canberra; AERE Reading Group, University of Sydney; Department of Home Affairs, Canberra; Institute of Agriculture, UWA; Monash Environmental Economics Workshop.
- 2024 AARES Annual Meeting, Canberra; AERE@OSWEET online seminar series; ANU Crawford School Arndt-Corden Department of Economics Seminar, Canberra; Harvard Vine to Mind Symposium, Cambridge, MA; AAEA Annual Meeting, New Orleans, LA; AARES ACT Branch, Canberra; University of Western Australia, Perth; CSIRO Sustainability Seminar, Canberra.
- 2023 AARES Annual Meeting, Christchurch; AAEA Annual Meeting, Washington DC; EAAE Congress, Rennes.
- 2022 AARES Annual Meeting (online); Agricultural Economics Workshop, UC Davis; AAEA Annual Meeting, Anaheim CA.
- 2021 Giannini Foundation of Agricultural Economics Student Conference (online); AAEA Annual Meeting, Austin TX.
- 2017 Seminar to Japanese Ministry of Agriculture, Forestry and Fisheries delegation, Canberra; ABARES Research Day, Canberra; Seminar to USDA delegation, Canberra; Guest Lecture “Commodity market analysis and forecasting”, University of Sydney.
- 2016 AARES Annual Meeting, Canberra; AARES NSW Branch, Sydney; AARES ACT Branch, Canberra; ABARES Research Day, Canberra.

## RESEARCH GRANTS

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- 2023-2026 USDA - NIFA, AFRI \$650,000; role: Co-PI (with T.K.M Beatty)
- 2021-2022 Giannini Foundation of Agricultural Economics Grant \$30,000; role: Co-PI (with T.K.M. Beatty)
- 2020-2021 Giannini Foundation of Agricultural Economics Grant \$30,000; role: Co-PI (with J.M. Alston)

## FELLOWSHIPS AND AWARDS

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- 2025 Award for Best Academic Staff Publication, UWA DARE
- 2024 AAEA Outstanding Doctoral Dissertation Award Honorable Mention
- 2022–2023 Provost’s Dissertation Year Fellowship in the Arts, Humanities and Social Sciences, UC Davis
- 2021 Henry A. Jastro Graduate Research Scholarship Award, UC Davis
- 2021 AARES-Crawford Fund Award
- 2021 Scott McNiven Community Service Award, UC Davis
- 2018 Non-Resident Tuition Fellowship, UC Davis
- 2016 AARES Undergraduate Award
- 2015 University Medal, University of Sydney
- 2015 Academic Merit Prize, University of Sydney
- 2015 Bruce Davidson Prize in Resource Economics, University of Sydney
- 2015 John Neil Downing Memorial Prize in Practical Agriculture, University of Sydney
- 2014 Alan Randall Prize in Resource Economics, University of Sydney
- 2013 The Belmore Scholarship, University of Sydney
- 2013 Warren F Musgrave Prize in Resource Economics, University of Sydney
- 2012 John Arthur Cran Prize in Agriculture, University of Sydney
- 2012–2015 Faculty of Agriculture Undergraduate Merit Scholarship, University of Sydney

## ACADEMIC SERVICE

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- 2025–Present   **Committee Member.** AARES WA Branch.
- 2025–Present   **Committee Member.** UWA School of Agriculture and Environment's Equity, Diversity and Inclusion Committee.
- 2024–2025   **Committee Member.** AARES ACT Branch.
- 2021–2023   **Graduate Student Liaison.** AAEA.
- 2018–2022   **Committee Member.** UC Davis ARE Social Committee.
- 2019–2022   **Co-Organizer.** UC Davis Econometrics Reading Group.
- 2020–2021   **Co-President.** UC Davis ARE Graduate Student Association.
- 2020           **Co-Organiser.** UC Davis ARE Anti-Racism in Economics Reading Group.
- 2018–2019   **Committee Member.** AARES ACT Branch.