

 16^{th} April, 2024 **Bryce Ronald William Boyd** | **PhD Candidate** Queensland University of Technology School of Mathematical Sciences

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Dr. John P. Brooks and Professor Yangchao Luo, Editors-in-Chief Journal of Agriculture and Food Research

Dear Editors,

Submission of Manuscript for Consideration by Journal of Agriculture and Food Research

We wish to submit a new manuscript entitled "An analysis of underlying relationships between factors related to operating costs and revenue in Australian vineyards" for your consideration by the Journal of Agriculture and Food Research.

In this manuscript we explore the contributing factors to Australian vineyards' operational costs and revenue. We provide insights into the interrelatedness of the factors contributing to operational cost and revenue, we further explore the relationships between these factors and regional differences; showing how different regional effects impact on vineyard operations and outcomes. We use a novel, extensive nationwide data from Australia, collected over a decade by Sustainable Winegrowing Australia. We construct and analyse several models of the multifaceted, multi-resource nature of vineyard management. We believe that this manuscript is appropriate for publication by the Journal of Agriculture and Food Research as it demonstrates the regional differences in operational costs and revenue of Australian vineyards and further link these outcomes to contributing factors to rank the relative importance of different vineyard activities and resource use. We illustrate the economic outcomes of Australian vineyards and link these outcomes to different regional factors. Thank you for your consideration of this manuscript.



Bryce Boyd (corresponding author) on behalf of all coauthors: Kate Helmstedt, Mardi Longbottom, Kerrie Mengersen

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