

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

**Eduardo Fernández Collao**

**Publicaciones (2019 – presente)**

1. Fadón, E., **Fernandez, E.**, Luedeling, E., Rodrigo, J. 2023. Agroclimatic requirements and adaptation potential to global warming of Spanish cultivars of sweet cherry (*Prunus avium* L.). *European Journal of Agronomy*, 145: 126774. Q1.
2. **Fernandez, E.**, Mojahid, H., Fadón, E., Rodrigo, J., Ruiz, D., Egea, J.A., Ben Mimoun, M., Kodad, O., El Yaacoubi, A., Ghrab, M., Egea, J., Benmoussa, H., Borgini, N., Elloumi, O., Luedeling, E. 2023. Climate change impacts on winter chill in Mediterranean temperate fruit orchards. *Regional Environmental Change*, 23: 7. Q2.
3. **Fernandez, E.**, Do, H., Luedeling, E., Luu, T.T.G., Whitney, C. 2022. Prioritizing farm management interventions to improve climate change adaptation and mitigation outcomes — A case study for banana plantations. *Agronomy for Sustainable Development*, 42: 76. Q1.
4. **Fernandez, E.**, Schiffrers, K., Urbach, C., Luedeling, E. 2022. Unusually warm winter seasons may compromise the performance of current phenology models — Predicting bloom dates in young apple trees with PhenoFlex. *Agricultural and Forest Meteorology*, 322: 109020. Q1.
5. Del Barrio, R., **Fernandez, E.**, Brendel, A., Whitney, C., Campoy, J., Luedeling, E. 2021. Climate change impacts on agriculture's southern frontier — Perspectives for farming in North Patagonia. *International Journal of Climatology*, 41: 726-742. Q2.
6. Delgado, A., Dapena, E., **Fernandez, E.**, Luedeling, E. 2021. Climatic requirements during dormancy in apple trees from northwestern Spain — Global warming may threaten the cultivation of high-chill cultivars. *European Journal of Agronomy*, 130:126374. Q1.
7. **Fernandez, E.**, Caspersen, L., Illert, I., Luedeling, E. 2021. Warm winters challenge the cultivation of temperate species in South America — a spatial analysis of chill accumulation. *Climatic Change*, 169: 28. Q2.
8. **Fernandez, E.**, Krefting, P., Kunz, A., Do, H., Fadón, E., Luedeling, E. 2021. Boosting statistical delineation of chill and heat periods in temperate fruit trees through multi-environment observations. *Agricultural and Forest Meteorology*, 310: 108652. Q1.
9. Rojas, G., **Fernandez, E.**, Whitney, C., Luedeling, E., Cuneo, I. 2021. Adapting sweet cherry orchards to extreme weather events — Decision Analysis in support of farmers' investments in central Chile. *Agricultural Systems*, 187: 103031. Q1.
10. Buerkert, A., **Fernandez, E.**, Tietjen, B., Luedeling, E. 2020. Revisiting climate change effects on winter chill in mountain oases of northern Oman. *Climatic Change*, 162(3): 1399–1417. Q2.

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11. Fadón, E., **Fernandez, E.**, Behn, H., Luedeling, E. 2020. A conceptual framework for winter dormancy in deciduous trees. *Agronomy*, 10 (2): 241. Q1.
12. **Fernandez, E.**, Luedeling, E., Behrend, D., Van de Vliet, S., Kunz, A., Fadón, E. 2020. Mild water stress makes apple buds more likely to flower and more responsive to artificial forcing — Impacts of an unusually warm and dry summer in Germany. *Agronomy*, 10 (2): 274. Q1.
13. **Fernandez, E.**, Whitney, C., Cuneo, I., Luedeling, E. 2020. Prospects of decreasing winter chill for deciduous fruit production in Chile throughout the 21<sup>st</sup> century. *Climatic Change*, 159: 423–439. Q2.
14. **Fernandez, E.**, Whitney, C., Luedeling, E. 2020. The importance of chill model selection — A multi-site analysis. *European Journal of Agronomy*, 119: 126103. Q1.
15. Valdebenito, D., Laca, E., **Fernandez, E.**, Saa, S. 2020. A network of shoots: effects of ontogeny and light availability on growth units in Chandler walnuts. *Trees – Structure and Function*, 34 (1): 177–188. Q2.
16. **Fernandez, E.**, Cuneo, I., Luedeling, E., Alvarado, L., Farías, D., Saa, S. 2019. Starch and hexoses concentrations as physiological markers in dormancy progression of sweet cherry twigs. *Trees - Structure and Function*, 33 (4): 1187–1201. Q2.

### Proyectos con financiamiento externo últimos 5 años (adjudicado y/o ejecutado)

1. Understanding carbohydrate dynamics at the interplay between cold acclimation/deacclimation pathways and dormancy release in sweet cherry as influenced by changing climate conditions.  
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Rol: Co-investigador  
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