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I. PUBLICACIONES (2015 – presente)

Publicaciones en revistas indexadas (ISI)

1. Dinamarca D, Seguel O, **Faúndez-Urbina C**, Galleguillos M (2023). CLSoilMaps: A national soil gridded database of physical and hydraulic soil properties for Chile. Sci Data. IN PRESS.
2. Camacho M, **Faúndez-Urbina CA**, Amoozegar A, Gannon T, Heitman L, Leon, R (2023). Subsurface lateral solute transport in Turfgrass. *Agronomy*, 13, no. 3:903. <https://doi.org/10.3390/agronomy13030903>;
3. Rakonjac N, van der Zee SEATM, Wipfler L, Roex E, **Faúndez-Urbina CA**, Borgers LH, Ritsema CJ. (2023). An analytical framework on the leaching potential of veterinary pharmaceuticals: A case study for the Netherlands. *Science of The Total Environment*, 859, 160310. <https://doi.org/10.1016/j.scitotenv.2022.160310>.
4. **Faúndez-Urbina CA**, Kremer C, Garrido M, Seguel O, Galleguillos M, Honorio de Miranda J, Aponte H (2022). Simulating water content and pore electrical conductivity in olives trees with HYDRUS 2D for desert conditions. *Journal of Soil Science and Plant Nutrition*. 10.1007/s42729-022-00777-0..
5. Wu J, Nunes JP, Baartman JEM, **Faúndez-Urbina CA**. (2021). Testing the impacts of wildfire on hydrological and sediment response using the OpenLISEM model. Part 1: Calibration and evaluation for a burned Mediterranean forest catchment. *CATENA*, 207, 105658. <https://doi.org/10.1016/j.catena.2021.105658>..
6. Kremer C, **Faúndez-Urbina CA**, Beyá-Marshall V, Franck N, Muñoz-

- Aravena V (2021). Transpiration-use efficiency of young cactus pear plants (*Opuntia ficus-indica* L.). *International Journal of Agriculture and Natural Resources*, 48(2), 115-124. <http://dx.doi.org/10.7764/ijanr.v48i2.2255>.
7. **Faúndez-Urbina CA**, van Dam J, Tang D, Gooren H, Ritsema C (2021). Estimating macropore parameters for HYDRUS using a meta-model. *European Journal of Soil Science*. 72: 2006– 2019. <https://doi.org/10.1111/ejss.13103>.
 8. **Faúndez-Urbina CA**, van Dam J, van den Berg F, Ritsema CJ, Tang DWS (2020). Determination of the relative macroporosity and the effective aggregate width for different macropore geometries with disk infiltrometers. *Vadose Zone Journal*. 19: e20048. <https://doi.org/10.1002/vzj2.20048>.
 9. **Faúndez-Urbina CA**, van den Berg F, van Dam JC, Tang DWS, Ritsema CJ (2020). Parameter sensitivity of SWAP–PEARL models for pesticide leaching in macroporous soils. *Vadose Zone Journal*. 19: e20075. <https://doi.org/10.1002/vzj2.20075>.
 10. **Faúndez-Urbina CA**, van Dam JC, Hendriks RFA, van den Berg F, Gooren HPA, Ritsema CJ (2019). Water Flow in Soils with Heterogeneous Macropore Geometries. *Vadose Zone Journal*. 18:190015. doi:10.2136/vzj2019.02.0015.
 11. Galleguillos M, Jacob F, Prévot L, **Faúndez-Urbina CA**, Bsaibes A (2017). Estimation of actual evapotranspiration over a rainfed vineyard using a 1-D water transfer model: A case study within a Mediterranean watershed. *Agricultural Water Management*, 184, 67-76.
 12. Márquez D, **Faúndez-Urbina CA**, Aballay E, Haberland J, Kremer C (2017). Assessing the vertical movement of a nematicide in a sandy loam soil and its correspondence using a numerical model (HYDRUS 1D). *Journal of Soil Science and Plant Nutrition*, 17(1), 167-179.

II. EXPERIENCIA EN PROYECTOS DE INVESTIGACION (2015 – presente)

Proyectos con fondos concursables

2023-2026. Investigador Principal. FONDECYT DE INICIACIÓN 11230533,

ANID. Field-scale estimation of macropore parameters for dual permeability models: An integrative approach incorporating pore-scale modeling and applied geophysics.

2021-2023. **Investigador Asociado. FIA nacional PYT-2021-0186, FIA.** Desarrollo y pilotaje de un sistema de evaluación y monitoreo de sistemas de riego a escala espacial real, tridimensional y de alta resolución.

2021-2024. **Co-Investigador. FONDECYT REGULAR 1210932, ANID.** Improving forest water yield and productivity quantification at the catchment scale by mapping root depth and eco-physiological thresholds with remote sensing and water transfer models

2021-2024. **Co-Investigador. Proyecto red estructural/red temática URORED21992, MINEDUC.** Sistema articulado de investigación en cambio climático y sustentabilidad de zonas costeras de Chile.