

DEPARTMENT OF ENVIRONMENTAL SCIENCES

Soil Science/Pedology Faculty Recruitment Seminar

Monday, February 12th, 2024 | 2:00 pm Bourns Hall A125



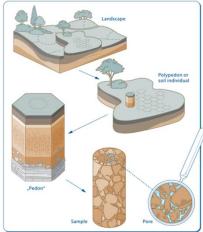
Pedro Martinez, Ph.D.

Postdoctoral Soil Scientist Jornada Experimental Range USDA-ARS

"Soil and landscape evolution through the lens of a multiscale approach"

Understanding soil and landscape evolution can help us identify and quantify the threats to current-day soil functions that enable life on Earth through several ecosystem services, e.g., provision of food, habitat for organisms, and flood regulation. To address how soils and landscapes evolve through space and time, we can leverage analytical methods that characterize geomorphological settings and soil physical, chemical, and biological properties from the nano to the watershed scale. Such analytical methods include technics. dating remote sensing methods. micromorphology of undisturbed soils, and X-ray computed tomography. In this seminar, Dr. Pedro Martinez will present his previous and future research on the role of geomorphological processes and bioturbation driven by plant roots and soil macrofauna in the genesis and morphology of coastal Spodosols and Oxisols containing high organic carbon stocks.





Contact: mayrag@ucr.edu Web: https://envisci.ucr.edu/