

The Potential Influence of Hillslope Processes on the Redistribution of Soil Lithium Signatures

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My project studies the soils and regolith on the landscape of the Carolina Tin-Spodumene Belt in the Southern Piedmont. Here, deeply-weathered Ultisols (> 2Ma landscape stability from meteoric ^{10}Be) are enriched in lithium derived from Li-bearing pegmatites. I aim to use cosmogenic ^{10}Be to quantify soil production and basin-averaged erosion rates in order to evaluate how soil creep redistributes lithium signatures across the landscape.



Visitor: Peizhou Louis Lu

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I'm a Ph.D. student from Duke University currently working with Professor Dan Richter on pedology and soil biogeochemistry. I'm originally from Shanghai, China. Before pursuing a PhD, I graduated from Cornell University with a B.S. in Earth and Atmospheric Sciences.