

## Internship Master 2

# **Mineralogical and petrographic study of a weathering profile developed on granite in south Brazil**

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The objective of this work is to study the clay formation in a weathering profile on granite in south Brazil. The student will conduct a methodological sampling throughout the weathering profile to describe the morphological and structures changes of the rocks. Undisturbed samples will be collected in order to prepare thin sections for petrographic description of the weathering using optical microscopy and scanning electron microscopy (SEM-EDS). The mineralogical changes during weathering will be characterised by powder XRD and clay extraction/saturations and XRD on oriented clay preparations. The internship will take place in the HydrASA/IC2MP laboratory with possibility for a part of the internship in Brazil.