

Lithologic Controls on Ongoing Geomorphic Activity in Tectonically Quiescent Landscapes

The Graduate Center, Queens College (CUNY)



Tectonically quiescent areas show signs of ongoing topographic change but lack a clear trigger. We aim to investigate how lithology influences these adjustment processes, such as divide migration and drainage capture, using the Paraná Basin, Brazil, as a natural laboratory. This research will improve surface process simulations in landscape evolution models, essential for understanding/predicting natural processes and hazards.



Visitors: Renato da Silva and Grace Alves

Visit dates: November 03-14, 2025

Hello! Renato da Silva is originally from Brazil and is currently a PhD student in Earth and Environmental Sciences at the Graduate Center (CUNY). Grace Alves is an Assistant Professor at the Federal University of Bahia and a Postdoc at Queens College (CUNY).