Stanford



Rafael Stern

Postdoctoral Scholar, Earth System Science

Bio

BIO

Rafael Stern's research focuses on the natural processes and mechanisms that regulate methane exchange between tropical forests and the atmosphere. He works with a network of eddy-covariance, ecological, and meteorological research stations across the Amazon rainforest, tropical Africa, and Asia.

Rafael earned his Ph.D. in Earth and Planetary Sciences from the Weizmann Institute of Science in Rehovot, Israel, where he was advised by Professor Dan Yakir. His doctoral research used a mobile eddy-covariance system to compare the biogeophysical and biogeochemical effects of different ecosystems and photovoltaic fields in drylands. He holds an M.Sc. in Climate and Environment from the National Institute of Amazonian Research in Manaus, Amazonas, Brazil, where he was advised by Professor Paulo Artaxo and studied the physical and chemical properties of atmospheric particles during the Amazon forest-fire season. He also holds a B.Sc. in Geography from the Department of Geosciences at Universidade Federal Fluminense in Niterói, Rio de Janeiro, Brazil. Rafael was born and raised in Rio de Janeiro, Brazil.

STANFORD ADVISORS

- Rob Jackson, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **The underappreciated importance of small wetlands in global methane emissions** *NATURE CLIMATE CHANGE*
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