



## Rafael Stern

Postdoctoral Scholar, Earth System Science

### Bio

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#### BIO

Rafael Stern was born and raised in Rio de Janeiro, Brazil. He is 35 years old, and married to Gal. Rafael has a BSc in Geography from the Geosciences Department of Universidade Federal Fluminense, in Niterói, Rio de Janeiro, Brazil. He has a MSc from the Climate and Environment Department of the National Institute of Amazon Research in Manaus, Amazonas, Brazil, with the supervision of prof. Paulo Artaxo, and he measured the physical and chemical properties of atmospheric particles during forest fires season in the Amazon rainforest. He has a PhD from the Earth and Planetary Sciences Department of the Weizmann Institute of Science in Rehovot, Israel, with the supervision of prof. Dan Yakir, and he used a mobile eddy covariance station to compare the biogeophysical and biogeochemical effects of different ecosystems and of PV fields on drylands.

#### STANFORD ADVISORS

- Rob Jackson, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Photovoltaic fields largely outperform afforestation efficiency in global climate change mitigation strategies.** *PNAS nexus*  
Stern, R., Muller, J. D., Rotenberg, E., Amer, M., Segev, L., Yakir, D.  
2023; 2 (11): pgad352