



## Lorenzo Rosa

Assist Prof (By Courtesy), Earth System Science

### Bio

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#### BIO

Lorenzo Rosa is a Principal Investigator in the Department of Global Ecology at Carnegie Institution for Science at Stanford. Prior to joining Carnegie, he was a postdoctoral fellow at the Institute of Energy and Process Engineering at ETH Zurich. He holds a Ph.D. in Environmental Science from University of California Berkeley, and a B.S. and M.S. in Environmental Engineering from Politecnico di Milano, Italy.

His research aims to assess the potential benefits and unintended climate and environmental consequences of innovations engineered to satisfy the increasing global demands for energy, water, and food. He studies climate change mitigation and adaptation solutions to food, energy, and water systems. His current work is focusing on the role of irrigation to adapt agriculture to climate change, solutions to agricultural water scarcity, solutions to achieve net-zero emissions in agriculture, environmental implications of climate mitigation technologies, and the quantification of biomass-based carbon dioxide removal potential.

Dr. Rosa was awarded the 2019 AGU Horton Hydrology Research grant and the 2021 AGU Science for Solutions Award. He was also listed among the most influential young leaders in Science and Technology of 2020 by Forbes 30 Under 30. Recent publications can be found on his Google Scholar page: <https://scholar.google.co.uk/citations?hl=en&user=riiy1mEAAAAJ>