



## Lorenzo Rosa

Assist Prof (By Courtesy), Earth System Science

### Bio

---

#### BIO

Lorenzo Rosa is a Principal Investigator at Carnegie Science. Lorenzo is also an Assistant Professor (by courtesy) in the Doerr School of Sustainability at Stanford University. Prior to joining Carnegie, he was a Postdoctoral Fellow in 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.

Dr. Rosa's research focuses on enhancing agricultural productivity and promoting sustainability in agriculture, energy, and water systems. He addresses the challenges posed by climate change to agriculture and explores strategies to minimize the environmental impacts of farming. Dr. Rosa's impactful research informs sustainable development policies and investments, contributing to agricultural and water sustainability. His work also assesses the potential benefits, and unintended consequences, of innovations designed to meet global demands for energy, water, and food.

Dr. Rosa's contributions to science and society have been recognized through multiple awards, including the 2019 American Geophysical Union (AGU) Hydrology Research Grant and the 2021 AGU Science for Solutions Award. The latter award is given "for significant contributions in the application and use of the Earth and space sciences to solve societal problems," and in Dr. Rosa's case recognized his contributions to understanding global water-energy-food linkages and solutions to benefit humanity and nature. The AGU is the primary professional society in Dr. Rosa's field, and these awards are extremely selective and highly prestigious. In addition to these awards, he was also listed among the most influential young leaders in Science and Technology of the year 2020 by Forbes 30 Under 30.

Dr. Rosa is an avid sportsman, when he is not at his desk, you can find him running, cycling, swimming, and skiing. In his career as athlete, he won the Regional and Italian Championships in mountain running.

Recent publications can be found on his Google Scholar page: <https://scholar.google.co.uk/citations?hl=en&user=r1iy1mEAAAAJ>

Lab website: <https://lorenzo-rosa.wixsite.com/curriculum>