

EMILE ESMAILI

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EDUCATION

Princeton University

Ph.D. in Science, Technology, and Environmental Policy (STEP)
Advisors: Prof. Michael Oppenheimer, Prof. Filiz Garip

expected 2030

Columbia University

M.A. in Quantitative Methods in the Social Sciences (QMSS)

Sorbonne Université

B.S. in Mathematics

Université Paris-Dauphine – PSL Research University

M.S. in Financial Engineering, B.S. in Economics

PUBLICATIONS

Publications

- *Improving subseasonal Indian summer monsoon rainfall forecasts with U-Net calibration.* **Emile Esmaili**, Andrew W. Robertson, Muhammad Azhar Ehsan, Bohar Singh, Aaron Kaplan, Avijit Dey, Susmitha Joseph. *Accepted at Climate Dynamics*

Working Papers

- *El Niño amplified food insecurity in Early Modern Europe.* **Emile Esmaili**, Michael J. Puma, Francis Ludlow, Eva Jobbova, Janavi Kumar, Poul Holm, Fredrik Charpentier Ljungqvist, Johannes Rom Dahl, John Alphonso Matthews and Andrea Seim. *Under revision at Nature Food*

RESEARCH EXPERIENCE

Research Scientist

NASA Goddard Institute for Space Studies (NASA GISS) / Columbia Climate School

Jan 2024 – Jul 2025

TEACHING EXPERIENCE

Instructor

QMSS Math Camp, Columbia University

Fall 2023

Teaching Assistant

GR5073: Machine Learning for the Social Sciences, Columbia University

Fall 2023

Teaching Assistant

GR5074: Advanced Projects in Machine Learning, Columbia University

Spring 2023

REFEREE SERVICE

Nature Communications, Environmental Research Letters, Earth's Future

SKILLS

Programming Languages

Python, R, MATLAB

Natural Languages

French, English, Farsi