



Emma Krasovich Southworth

Ph.D. Student in Environment and Resources, admitted Autumn 2022

Bio

BIO

Emma is interested in exploring how we can manage natural resources in a way that co-optimizes health and environmental outcomes in the context of global change. She aims to use tools from machine learning, econometrics, and epidemiology to evaluate and inform environmental policy and public health interventions. She is a NSF Graduate Research Fellow, a Stanford EDGE Fellow, and a Stanford Data Science Scholar.

Prior to starting her PhD, Emma worked as a Research Analyst at the Global Policy Lab for three years. During her time at GPL, she was part of a project that aimed to identify land-based sources of nonpoint source water pollution in national-scale river systems in New Zealand and the US Mississippi River Basin. Emma completed her MPH in global and environmental health at Columbia University and received a BA in neuroscience from Colgate University. When she isn't at her desk, you can find her outside - most likely running or hiking up a mountain.

HONORS AND AWARDS

- Stanford Data Science Scholar, Stanford Data Science (2023 - 2025)
- Graduate Research Fellow, National Science Foundation (2022 - 2027)
- EDGE Fellow, Stanford University (2022 - 2025)

EDUCATION AND CERTIFICATIONS

- BA, Colgate University , Behavioral Neuroscience (2015)
- MPH, Columbia University , Environmental Health Sciences, Global Health Certificate (2017)

PERSONAL INTERESTS

running, trivia, hiking, kayaking, crossword puzzle solving + constructing

Publications

PUBLICATIONS

- **Harmonized nitrogen and phosphorus concentrations in the Mississippi/Atchafalaya River Basin from 1980 to 2018** *SCIENTIFIC DATA*
Krasovich, E., Lau, P., Tseng, J., Longmate, J., Bell, K., Hsiang, S.
2022; 9 (1): 524
- **The effect of large-scale anti-contagion policies on the COVID-19 pandemic (vol 584, pg 262, 2020)** *NATURE*
Hsiang, S., Allen, D., Annan-Phan, S., Bell, K., Bolliger, I., Chong, T., Druckenmiller, H., Huang, L., Hultgren, A., Krasovich, E., Lau, P., Lee, J., Rolf, et al
2020; 585 (7824): E7