



Jared Trok

Ph.D. Student in Earth System Science, admitted Autumn 2021

Bio

LINKS

- Website: <http://jaredtrok.com/>

Publications

PUBLICATIONS

- **Increasing risk of mass human heat mortality if historical weather patterns recur** *NATURE CLIMATE CHANGE*
Callahan, C. W., Trok, J., Wilson, A. J., Gould, C. F., Heft-Neal, S., Diffenbaugh, N. S., Burke, M.
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- **Machine learning-based extreme event attribution.** *Science advances*
Trok, J. T., Barnes, E. A., Davenport, F. V., Diffenbaugh, N. S.
2024; 10 (34): eadl3242
- **Extreme precipitation, exacerbated by anthropogenic climate change, drove Peru's record-breaking 2023 dengue outbreak** *ONE EARTH*
Harris, M. J., Trok, J. T., Martel, K. S., Borbor-Cordova, M. J., Diffenbaugh, N. S., Munayco, C. V., Lescano, A. G., Mordecai, E. A.
2026; 9 (4)
- **Quantifying the contributions of climate change and adaptation to mortality from unprecedented extreme heat events.** *Proceedings of the National Academy of Sciences of the United States of America*
Callahan, C. W., Trok, J. T., Wilson, A. J., Gould, C. F., Heft-Neal, S., Burke, M., Diffenbaugh, N. S.
2025; 122 (51): e2503577122
- **Extreme precipitation, exacerbated by anthropogenic climate change, drove Peru's record-breaking 2023 dengue outbreak.** *medRxiv : the preprint server for health sciences*
Harris, M. J., Trok, J. T., Martel, K. S., Borbor Cordova, M. J., Diffenbaugh, N. S., Munayco, C. V., Lescano, A. G., Mordecai, E. A.
2024
- **Historical evaluation and future projections of compound heatwave and drought extremes over the conterminous United States in CMIP6** *ENVIRONMENTAL RESEARCH LETTERS*
Rastogi, D., Trok, J., Depsky, N., Monier, E., Jones, A.
2024; 19 (1)
- **Using Machine Learning With Partial Dependence Analysis to Investigate Coupling Between Soil Moisture and Near-Surface Temperature** *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*
Trok, J. T. T., Davenport, F. V. V., Barnes, E. A. A., Diffenbaugh, N. S. S.
2023; 128 (12)