

# Justin Staller Mankin

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## APPOINTMENTS

2023-present Associate Professor, Department of Geography, Dartmouth  
2018-present Adjunct Associate Research Scientist, Lamont-Doherty Earth Observatory, Columbia University  
2018-present Faculty Affiliate, Department of Earth & Planetary Sciences, Dartmouth  
2018-present Faculty Affiliate, Ecology, Evolution, Environment & Society, Dartmouth  
2018-2023 Assistant Professor, Department of Geography, Dartmouth  
2015-2018 Earth Institute Postdoctoral Fellow, Lamont-Doherty Earth Observatory, Columbia University  
2015-2017 Postdoctoral Fellow, NASA Goddard Institute for Space Studies

## EDUCATION

2015 PhD in Environment & Resources, School of Earth Sciences, Stanford University  
2010 MPA in Environmental Science & Policy, Earth Institute, Columbia University  
2008 MSc in Global Politics & Development, London School of Economics  
2004 BA in Political Science, Columbia University

## HONORS, AWARDS, & FELLOWSHIPS • (SELECTED, LAST TWO YEARS)

2025 MIT & Woods Hole Oceanographic Institution, H. Burr Steinbach Scholar  
2024 American Geophysical Union, Global Environmental Change Early Career Award  
2024 Keynote, U.S. National Academies of Science, "Climate Change & Human Migration"  
2024 Gottlieb & Mankin, *Nature* (2024) named a Nature cover article  
2024 Callahan & Mankin, *Science* (2023) named one of the 10 New Insights in Climate Science (10NICS) by the World Climate Research Programme & Future Earth  
2024 Pettit Family Fellowship, Dartmouth  
2024 AGU Editors' Highlight: Li et al., *AGU Advances* (2024)  
2024 AMS Editors' Highlight: Callahan et al., *Bulletin of the American Meteorological Society* (2023)

## SERVICE

### TO THE DISCIPLINE • (SELECTED)

2025-present Member, Committee on the Future of Drought in the United States, U.S. National Academy of Science  
2025-present Member, US CLIVAR Working Group, Accelerating Research on Climate Risk Information  
2024-present Graphics Lead Author, U.S. Sixth National Climate Assessment  
2024-present Drought Lead, Water Cycle Priorities, NASA Decadal Survey  
2023-present Editor, *Earth's Future*, a Journal of the American Geophysical Union (AGU)  
2022-present Associate Editor, *Journal of Climate*, a Journal of the American Meteorological Society (AMS)  
2020-present Member, American Meteorological Society Committee on Climate Variability and Change (AMS CVC)  
2020-present Member Representative, University Corporation for Atmospheric Research (UCAR)  
2024-present Member, Attribution Science and Climate Law Advisory Committee, Sabin Center for Climate Law  
2021-24 Co-lead, National Oceanic & Atmospheric Administration Drought Task Force  
2022-2024 Co-chair, "The Future of Terrestrial Water Availability" at the Aspen Global Change Institute  
2024 Media Lead, World Climate Research Programme & Future Earth 10 New Insights in Climate Science  
2023 Co-chair, 37th Conference on Climate Variability and Change of the American Meteorological Society  
2023 Member, *Earth's Future* Editor-in-Chief Search Committee

## PEER-REVIEWED JOURNAL ARTICLES • (LAST 2 YEARS)

Total peer-reviewed papers published: 65; total citations: ~6800; Google h-/i-10 index: 38/50

\* Denotes research where Mankin is lead or senior author per the Vancouver Protocol; underlined are: PI-

advised (P)ostdoc, (G)rad student, (U)ndergrad, and (R)esearch Assistant

- 2025 \*Mankin, J. S., N. Siebert (R), J. E. Smerdon, B. I. Cook, R. Seager, A. P. Williams, C. Lesk, (P), Z. Li (P), H. Singh (R), E. Martinez (U), Nonlinear carbon feedbacks diminish future freshwater availability, *Journal of Climate* 10.1175/JCLI-D-24-0028.1.
- 2025 \* Callahan, C. (G) & J. S. Mankin, Carbon majors and the scientific case for climate liability, *Nature*, DOI: 10.1038/s41586-025-08751-3.
- 2025 Ospina, D. et al. (WCRP invited author team), Ten New Insights in Climate Science 2024, *One Earth* 10.1016/j.oneear.2025.101285.
- 2025 \*Lesk, C. (P), J. Winter, & J. S. Mankin, Projected runoff declines from plant physiological effects on precipitation, *Nature Water*, DOI: s44221-024-00361-z.
- 2025 \*Callahan, C. (G), N. J. Dominy, J. M. DeSilva, & J. S. Mankin, Reply to Sato and Kohyama, *Bulletin of the American Meteorological Society* 10.1175/BAMS-D-24-0269.1.
- 2025 Jiang, Y., J. E. Smerdon, R. Seager, G. Wang, B. I. Cook, C. Zheng, J. S. Mankin, and A. P. Williams, Land-Surface Conditions and Their Influence on the 2020-21 Western US Drought, *Water Resources Research*.
- 2024 \*Li, Z. (P), J. E. Smerdon, R. Seager, N. Siebert (R), & J. S. Mankin, Emergent trends complicate interpretation of the United States Drought Monitor, *AGU Advances*, DOI: 10.1029/2023AV001070.
- 2024 Byrne, M. P., G. Hegerl, J. Scheff, A. Berg, C. Hohenegger, V. Humphrey, M. M. Laguë, F. H. Lambert, J. S. Mankin, K. A. McColl, K. A. McKinnon, A. G. Pendergrass, Lucas Vargas Zeppetello, Y. Zhang, Theory and the future of land-climate science, *Nature Geoscience* s41561-024-01553-8.
- 2024 Fallah, A., M. A. Barlow, L. Agel, J. Kim, J. S. Mankin, D. M. Mocko, C. B. Skinner, Impact of Vegetation Assimilation on Flash Drought Characteristics Across the Continental United States, *Journal of Hydrometeorology* 10.1175/JHM-D-23-0219.1.
- 2024 \*Callahan, C. (G), N. J. Dominy, J. M. DeSilva, & J. S. Mankin, Home runs rising: Warming global temperatures are altering America's pastime, *Bulletin of the American Meteorological Society*.
- 2024 \*Gottlieb, A. (G) & J. S. Mankin, Evidence of human influence on Northern Hemisphere snow loss, *Nature*, DOI: s41586-023-06794-y.

#### OTHER WRITING • (SELECTED)

- 2024 \*Mankin, J. S., The people have a right to climate data, *The New York Times*, Section A, Page 22.
- 2023 \*Mankin, J. S. & C. Callahan (G), The other climate change, *The Los Angeles Times*, page A11.
- 2022 \*Mankin, J. S. & C. Callahan (G), The Scientific Case for Climate Liability and Loss and Damage, *Lawfare*.
- 2021 \*Mankin, J. S., The American West's drought isn't a disaster. It's our new, permanently arid normal, *The Washington Post*.

#### GRANTS

\$2.1M in external support over last 4 years: NSF CLD; NSF HEGS; NOAA MAPP; Rockefeller Family Fund, Larsen Lam Climate Foundation

#### PROFESSIONAL SOCIETIES

American Geophysical Union; American Meteorological Society; American Association of Geographers; American Association for the Advancement of Science

#### TEACHING

GEOG 01.01: "Introduction to Earth System Science"; GEOG 16.01: "A Climate for Human Security"; GEOG 18.01: "Climate Extremes"; GEOG 60.01: "Earth System Modeling"

Last updated: May 10, 2025