

BIOGRAPHICAL SKETCH

JENNIFER NAKAMURA

Ocean and Climate Physics

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PROFESSIONAL APPOINTMENTS

2022-Current	Research Scientist, LDEO, Palisades, NY
2006-2022	Senior Staff Associate, LDEO, Palisades, NY
1998-2006	Staff Associate, LDEO, Palisades, NY
1997-1998	Research Assistant, Pennsylvania State University, University Park, PA
1996-1997	Teaching Assistant, Pennsylvania State University, University Park, PA

EDUCATION

Department of Meteorology, Pennsylvania State University, University Park, PA, B.Sc., 1996

Department of Meteorology, Pennsylvania State University, University Park, PA, M.Sc., 1998

Department of Earth and Environmental Engineering Columbia University, New York, NY M.Phil., 2008, Ph.D., 2014

PUBLICATIONS LAST 5 YEARS

Nakamura, J. and Lall, U., 2026: A 10,000-Year Global Stochastic Tropical Cyclone Catalog with Wind-Dependent Track Transitions (WHITS). arXiv preprint arXiv:2605.20494. <https://doi.org/10.48550/arXiv.2605.20494>

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Seager, R., Liu, H., Osborn, T.J., Kushnir, Y., Nakamura, J. and Wu, Y., 2026: Mediterranean drying by a positive North Atlantic Oscillation trend over the last 65 years is an extreme outlier in the CMIP6 multimodel ensemble. *Journal of Climate*, **39**(2), pp.785-804.

Seager, R., Ting, M., Alexander, P., Liu, H., Li, C. and Nakamura, J., 2025: Dynamics of future soil moisture drought in southwest North America: Linkages across seasons in the ocean–atmosphere–land system. *Journal of Climate*, **38**(9), pp.2139-2154.

Seager, R., Wu, Y., Cherchi, A., Simpson, I.R., Osborn, T.J., Kushnir, Y., Lukovic, J., Liu, H. and Nakamura, J., 2024: Recent and near-term future changes in impacts-relevant seasonal hydroclimate in the world's Mediterranean climate regions. *International Journal of Climatology*, **44**(11), pp.3792-3820.

- Nakamura, J., Seager, R., Liu, H., Cottier, F., Puma, M.J., Wrathall, D.J., Katz, B., de Sherbinin, A. and Adamo, S.B., 2024: Recent trends in agriculturally relevant climate in Central America. *International Journal of Climatology*, **44**(8), pp.2701-2724.
- Seager, R., Y. Wu, A. Cherchi, I.R. Simpson, T.J. Osborn, Y. Kushnir, J. Lukovic, H. Liu, and J. Nakamura, 2024: Recent and near-term future changes in impacts-relevant seasonal hydroclimate in the world's Mediterranean climate regions *International Journal of Climatology*, pp. 1-24, DOI: 10.1002/joc.8551
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- Nakamura, J., Lall, U., Kushnir, Y., & Harr, P. A., 2023: A saturated stochastic simulator: synthetic US Gulf coast tropical cyclone precipitation fields. *Natural Hazards*, **120**, pp. 1295-1318, DOI: 10.1007/s11069-023-06245-x
- Seager, R., Ting, M., Alexander, P., Liu, H., Nakamura, J., Li, C., & Newman, M., 2023: Ocean-forcing of cool season precipitation drives ongoing and future decadal drought in southwestern North America. *npj Climate and Atmospheric Science*, **6**(1), 141, DOI: 10.1038/s41612-023-00461-9
- Seager, R., Ting, M., Alexander, P., Nakamura, J., Liu, H., Li, C., & Simpson, I. R., 2022: Mechanisms of a meteorological drought onset: summer 2020 to spring 2021 in southwestern North America. *Journal of Climate*, **35**(22), 7367-7385, DOI: 10.1175/JCLI-D-22-0314.1
- Reed, C., Anderson, W., Kruczkiwicz, A., Nakamura, J., Gallo, D., Seager, R., & McDermid, S. S., 2022: The impact of flooding on food security across Africa. *Proceedings of the National Academy of Sciences*, **119**(43), e2119399119, DOI: 10.1073/pnas.2119399119
- Seager, R., N. Henderson, M. Cane, H. Zhang, and J. Nakamura, 2021: Atmosphere-ocean dynamics of persistent cold states of the tropical Pacific Ocean. *J. Climate*, **34**(5), 195 – 5124, DOI:10.1175/JCLI-D-20-0694.1
- Nakamura, J., U. Lall, Y. Kushnir, P. A. Harr, and K. McCreery, 2021: Early Season Hurricane Risk Assessment: Climate Conditioned HITS Simulation of North Atlantic Tropical Storm Tracks. *J. Appl. Meteor. Climatol.*, **60**, 559 – 575, DOI: 10.1175/JAMC-D-20-0237.1
- Seager, R., Nakamura, J., and Ting, M., 2020: Prediction of seasonal meteorological drought onset and termination over the southern Great Plains in the North American Multimodel Ensemble. *Journal of Hydrometeorology*, **21**(10), 2237-2255, DOI: 10.1175/JHM-D-20-0023.1
- Seager, R., H. Liu, Y. Kushnir, T.J. Osborn, I.R. Simpson, C.R. Kelley and J. Nakamura, 2020: Mechanisms of Winter Precipitation Variability in the European–Mediterranean Region Associated with the North Atlantic Oscillation. *J. Climate*, **33**, 7179 - 7196, DOI:10.1175/JCLI-D-20-0011.1