

Curriculum Vitae - James A. Smith

Education:

Ph.D. (1981), Environmental Engineering, The Johns Hopkins University
MSE (1979), Mathematical Sciences, The Johns Hopkins University
B.S. (1974), Mathematics, University of Georgia.

Experience:

- 1) Chair, Department of Civil and Environmental Engineering, Princeton University (2011 - 2017),
- 2) William and Edna MacAleer Professor of Engineering and Applied Science (2014 – present)
- 3) Professor, Department of Civil and Environmental Engineering, Princeton University (July 1998 - present),
- 4) Associate Professor, Princeton University (1995 - 1998)
- 5) Assistant Professor, Princeton University (1990 - 1994),
- 6) Research Scientist in Hydrometeorology, Hydrologic Research Laboratory, NOAA, 1981 - 1985 and 1987 - 1989.
- 7) Research Scientist, Center for Mathematics and Computer Science, Amsterdam, 1985 - 1986.

Membership in Scholarly Societies:

American Geophysical Union (AGU),
American Meteorological Society (AMS).

Honors:

- 1) Fellow, American Meteorological Society (AMS)
- 2) Fellow, American Geophysical Union (AGU)
- 3) 2019 Hydrologic Sciences Medal (AMS)
- 4) 2011 Robert E. Horton Lecturer (AMS)
- 5) Fulbright Research Fellow, Center for Mathematics and Computer Science, Amsterdam, The Netherlands.
- 6) DAAD Graduate Fellow, Institute for Applied Mathematics, University of Bonn, Federal Republic of Germany.
- 7) Phi Beta Kappa Honor Society
- 8) Engineering Council Teaching Award: CIV306 (Environmental Fluid Dynamics).

Journal Articles:

Liu, M., J. A. Smith, L. Yang, and G. A. Vecchi, , Tropical cyclone flooding in the Carolinas. *Journal of Hydrometeorology*, 23(1), <https://doi.org/10.1175/JHM-D-21-0113.1>, 2022.

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Su, Y. and J. A. Smith, An atmospheric water balance perspective on extreme rainfall potential for the contiguous US, *Water Resources Research*, 57, e2020WR028387, <https://doi.org/10.1029/2020WR028387>, 2021.

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Gori, A., N. Lin and J. A. Smith, Assessing compound flooding from landfalling tropical cyclones on the North Carolina coast, *Water Resources Research*, 56, <https://doi.org/10.1029/2019WR026788>, 2020

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Yang, Long, Gabriele Villarini, Zhenzhong Zeng, James A. Smith, Maofeng Liu, Xiang Li, Lachun Wang, and Aizhong Hou, Riverine Flooding and Landfalling Tropical Cyclones over China, *Earth's Future*, 8, e2019EF001451. <https://doi.org/10.1029/2019EF001451>, 2020.

Liu, M., L. Yang, J. A. Smith and G. A. Vecchi, Response of extreme rainfall for landfalling tropical cyclones undergoing extratropical transition to projected climate change: Hurricane Irene (2011), *Earth's Future*, 8, e2019EF001360, <https://doi.org/10.1029/2019EF001360>, 2020.

Smith, J. A., M. L. Baeck, L. Yang, J. Signell, E. Morin, and D. C. Goodrich, The Paroxysmal Precipitation of the Desert, Flash Floods in the Southwestern US, *Water Resources Research*, <https://doi.org/10.1029/2019WR025480>, 2019.

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