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Education: Ph.D., Yale University, New Haven, Connecticut, 1972-1977
M.F.S., Yale University, New Haven, Connecticut, 1970-1972
M.A.T., Wesleyan University, Middletown, Connecticut, 1967-1968
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Experience:

The Ecosystems Center, Marine Biological Laboratory, Woods Hole, 1976-Present
Assistant Scientist, 1976-1982; Associate Scientist, 1982-1987; Senior Scientist, 1987-Present; Acting
Director, 1988-1989; Co-Director, 1989-2009
Associate Director for Environment, Office of Science and Technology Policy, Office of the President,
Washington, DC, 1996-1997
Director, Ecosystems Studies Program, National Science Foundation, Washington, DC, 1986-1988
Associate in Research, The Hubbard Brook Ecosystem Study, Yale University, New Haven, CT, 1975-
1976
Teaching Assistant, January Ecology Course, Marine Biological Laboratory, Woods Hole, MA, January
1975
Teaching Assistant in Soils, Yale University, New Haven, CT, 1973-1975
Biology Instructor, Foote School, New Haven, CT, 1972-1973
Biology Instructor, Weston High School, Weston, CT, 1968-1973
Biology Instructor, Kakamega Secondary School, Kakamega, Kenya (East Africa), 1966-1967

Offices and Honors:

Member, Sigma Xi
Trustee, Marine Biological Laboratory
Chair, US Committee for the Scientific Committee on Problems of the Environment
Vice Chair, International Geosphere-Biosphere Programme
President, Scientific Committee on Problems of the Environment
President, Ecological Society of America
Distinguished Alumni Award, Wesleyan University
Award of Excellence in Ecosystem Science, Natural Resources Ecology Laboratory, Colorado State
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Member, Cosmos Club
Member, American Philosophical Society
Fellow, American Academy of Arts and Sciences

Professional Society Memberships:

American Geophysical Union
Ecological Society of America
National Association for the Advancement of Science

Advisory Committees (selected)

International Geosphere-Biosphere Programme-Global Change and Terrestrial Ecosystems
International Geosphere-Biosphere Programme
Global Change System for Analysis, Research and Training
National Science Foundation – Biological Sciences Directorate
State of the Nation's Ecosystems (design team – The H. John Heinz III Center for Science, Economics and the Environment)

Publications (including In press):

- In press:** Melillo, J. M., J. M. Reilly, D. W. Kicklighter, A. C. Gurgel, T. W. Cronin, S. Paltsev, B. S. Felzer, A. P. Sokolov and C. A. Schlosser. Indirect emissions from biofuels: How Important? *Science*.
Felzer, B., J. Reilly, J. M. Melillo, D. W. Kicklighter, M. Sarofim, C. Wang, R. Prinn and Q. Zhuang. Future effects of ozone on carbon sequestration and climate change policy using a Global Biogeochemical Model. *Climatic Change*.
- 2009** Melillo, J. M., A.C. Gurgel, D. W. Kicklighter, J. M. Reilly, T. W. Cronin, B. S. Felzer, S. Paltsev, C. A. Schlosser, A. P. Sokolov and X. Wang. 2009. Unintended environmental consequences of a global biofuels program. MIT JPSPGC, Report 168, January, 32 p.
Balshi, M. S., A. D. McGuire, P. Duffy, M. Flannigan, D. W. Kicklighter and J. Melillo. 2009. Vulnerability of carbon storage in North American boreal forests to wildfires during the 21st century. *Global Change Biology* 15:1491-1510.
Karl, T. R., J. M. Melillo, T. C. Peterson (eds.), *Global Climate Change Impacts in the United States. A State of Knowledge Report from the U.S. Global Change Research Program*. Cambridge Univ. Press.
- 2008** Bradford, M. A., C. A. Davies, S. D. Frey, T. R. Maddox, J. M. Melillo, J. E. Mohan, J. F. Reynolds, K. K. Treseder and M. D. Wallenstein. 2008. Thermal adaptation of soil microbial respiration to elevated temperature. *Ecology Letters* 11(12):1316-1327.
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Corell, R. W., S. J. Hassol and J. M. Melillo. 2008. Emerging challenges: Methane from the Arctic: global warming wildcard, pp. 37-48. In: P. Harrison (ed.), *UNEP Yearbook 2008. An Overview of Our Changing Environment*. Division of Early Warning and Assessment (DEWA), United Nations Environment Programme (UNEP), Nairobi, Kenya.
Frey, S. D., R. Drijber, H. Smith and J. Melillo. 2008. Microbial biomass, functional capacity, and community structure after 12 years of soil warming. *Soil Biology & Biochemistry* 40(11): 2904-2907. 10.1016/j.soilbio.2008.07.020.
Frumhoff, P. C., J. J. McCarthy, J. M. Melillo, S. C. Moser, D. J. Wuebbles, C. Wake and E. Spanger-Siegfried. 2008. An integrated climate change assessment for the Northeast United States. *Mitigation and Adaptation Strategies for Global Change* 13:419-423.
Galford, G. L., J. F. Mustard, J. Melillo, A. Gendrin, C. C. Cerri, C. E. P. Cerri. 2008. Wavelet analysis of MODIS time series to detect expansion and intensification of row-crop agriculture in Brazil. *Remote Sensing of Environment* 112:576-587.

- Melillo, J. and O. Sala. 2008. Ecosystem services, pp. 75-115. In: E. Chivian and A. Bernstein (eds.), *Sustaining Life: How Human Health Depends on Biodiversity*. Oxford University Press, New York, NY.
- Robertson, P. G., V. H. Dale, O. C. Doering, S. P. Hamburg, J. M. Melillo, et al. 2008. Sustainable biofuels redux. *Science* 322:49-50.
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- 2007** Balshi, M. S., A. D. McGuire, Q. Zhuang, J. M. Melillo, D. W. Kicklighter, E. S. Kasischke, C. Wirth, M. Flannigan, J. Harden, J. S. Clein, T. J. Burnside, J. McAllister, W. A. Kurz, M. Apps and A. Shvidenko. 2007. The role of fire disturbance in the carbon dynamics of the pan-boreal region: A process-based analysis. *Journal of Geophysical Research* 112: G02029, doi: 10.1029/2006JG000380.
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- 2006** Cerri, C. E. P., M. C. Piccolo, B. J. Feigl, K. Paustian, C. C. Cerri, R. L. Victoria and J. M. Melillo. 2006. Interrelationships among soil total C and N, microbial biomass, trace gas fluxes, and internal N-cycling in soils under pasture of the Amazon region. *Journal of Sustainable Agriculture* 27(4):45-69.
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