



## Anna Marta Michalak

Professor (By Courtesy), Earth System Science

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### Bio

#### BIO

Dr. Anna M. Michalak is a faculty member in the Department of Global Ecology of the Carnegie Institution for Science and a Professor in the Department of Earth System Science. Her lab's research interests lie in understanding the cycling and emissions of greenhouse gases at the Earth surface at urban to global scales – scales directly relevant to informing climate and policy – primarily through the use of atmospheric observations that provide the clearest constraints at these critical scales. Her group is also interested in climate change impacts on freshwater and coastal water quality via influences on nutrient delivery to, and on conditions within, water bodies. Her approach is highly data-driven, with a common methodological thread being the development and application of spatiotemporal statistical data fusion methods for optimizing the use of limited in situ and remote sensing environmental data. She co-led the development of the U.S. Carbon Cycle Science Plan, is the Chair of the Integrated Carbon Observation System European Research Infrastructure Consortium Scientific Advisory Board, and is a Member of the NASA Earth Science Advisory Committee, among other appointments. She is a Leopold Environmental Leadership Fellow, and a recipient of the NSF CAREER Award and the Presidential Early Career Award for Scientists and Engineers (PECASE), the highest honor bestowed by the U.S. government on scientists and engineers beginning their independent careers.