

Amber Miller is the Dean of Science for the Faculty of Arts and Sciences and Professor of Physics at Columbia University where she has been a member of the faculty since 2002. Her research focuses on experimental cosmology – leading teams focused on building, deploying, and observing with telescopes designed to probe the conditions in the universe when it was much less than one second old. Her decadal work is focused on enhancing the basic sciences at Columbia and building and strengthening ties between the basic sciences, engineering, the medical center, and other units in the university. Prof. Miller has also long held an interest in issues on the interface between science and policy. She developed and piloted a seminar at Columbia entitled "Science, Policy, and Critical Thinking", and teaches courses such as "Weapons of Mass Destruction" and "Physics for Poets. She is also a term member of the Council on Foreign Relations and has recently served as the Chief Science Advisor to the NYPD Counterterrorism Bureau. Prof. Miller received her BA from U.C. Berkeley in 1995, and her PhD from Princeton in 2000. Recent honors and awards include a Hubble Fellowship, a NSF Career Award, an Alfred. P. Sloan Fellowship, and a Lenfest Distinguished Faculty Award.