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Education: Master of Science (2001), Doctorate (expected 2005)

Research areas:

I am in my sixth year of graduate study in the Department of Earth and Environmental Science at the University of Pennsylvania (USA), currently pursuing a PhD with advisor Dr. Andrea Grottoli. I also received a M.Sc. from the University of Pennsylvania (2001, advisor: Dr. Eric Steig). That research focused on the record of persistent organic pollutants in the Arctic; I directed ice coring and snow sampling at the summit of Lomonosovfonna, Svalbard during an expedition in 2000. My current research focuses on the geochemical signals in coral skeletons and the proxy development of these records for use in paleoceanography. I conducted my dissertation field work on cadmium as a tracer of oceanic upwelling in coral skeleton on Isla Contadora in the Gulf of Panama, where I was a visiting scientist at the Smithsonian Tropical Research Institute. I am currently developing a solution ICP-MS methodology (Thermo Finnigan Element 2) for the analyses of trace metals (Sr, Ba, Cd) in carbonates, marine water and plankton at the University of Maryland in conjunction with Prof. Bill McDonough. In addition to my interests in trace metals in carbonates and paleoclimatology, I have done work with stable carbon and oxygen isotopes in corals and seawater.
