Postdoctoral opportunity: Global biogeochemical modeling at University of Pennsylvania

We invite applications for a post-doc to work on understanding the impact of climate change on ocean ecology and biogeochemistry, and potential feedbacks on climate. Potential topics include: (1) improving the representation of phytoplankton ecology in earth system models to accurately represent the sensitivity to climate change on various timescales; comparing ecological model outputs with satellite data and theoretical predictions; (2) analyzing the behavior of ocean ecology and biogeochemistry with future climate change in a suite of Earth system models; (3) model simulations and theoretical analyses of the sensitivity of the ocean carbon sink to climate driven changes in ocean ventilation; (4) ocean acidification and oxygen minimum zones in a warming climate; (5) terrestrial carbon cycling in a warming climate.

A Ph.D. in oceanography (modeling or optical oceanography ideal), biogeochemistry, theoretical ecology or atmospheric sciences is preferred. Strong quantitative skills and programming experience, especially programming in Fortran, matlab or python, is highly desirable. Experience with running large climate models ideal.

The successful applicant will work with Dr. Irina Marinov in the Earth & Environmental Science Dept at UPenn (https://climate.sas.upenn.edu/), with collaborators at nearby institutions (Johns Hopkins U. and Princeton U.). Applicants are asked to send a curriculum vitae, a statement of research experience and interests, and the names and contact information (phone, e-mail and address) of at least three references to Irina Marinov (imarinov@sas.upenn.edu), Dept of Earth & Environmental Science, Univ. of Pennsylvania, 240 S. 33rd Street -Hayden Hall 153, Philadelphia, PA 19104.

We will begin reviewing applications immediately, and continue until the position is filled. Immediate start date preferred. Competitive salary commensurate with experience. Position guaranteed for one year, with possibility of renewal depending on future funding.