

Postdoctoral Researcher Position in Near Inertial Wave- Mesoscale eddy- Submesoscale Current Interactions

Department of Atmospheric and Oceanic Sciences
University of California, Los Angeles (UCLA)

We are seeking a postdoctoral researcher to work on problems of oceanic circulation dynamics using the Regional Oceanic Modeling System (ROMS) and the spectral Large Eddy Simulator Flow_Solve. The researcher would join a highly experienced group, run by Professor James C. McWilliams, with expertise in computational methods, realistic and idealized simulation of complex flows, and dynamical processes. The focus of the research will be on the interactions between near inertial waves (NIW), mesoscale eddies, and submesoscale fronts and filaments ('NIW-eddy-front interactions'). Problems of interest include quantifying the degree to which NIW-eddy-front interactions in the mixed-layer, thermocline, and the abyss modify the oceanic Kinetic and Available Potential energy pathways; and determining whether the scattering and dispersion of NIWs by eddies and fronts is crucial to obtaining the commonly observed Garrett-Munk spectrum. The work is partly motivated and supported by a series of field experiments in the North-Atlantic subpolar gyre, south of Iceland.

Applicants must have a Ph.D. in physical oceanography or related discipline, experience in the numerical modeling of oceanic flows, a knowledge of geophysical fluid dynamics, a good publication record, the ability to synthesize both ocean model output and oceanographic observations, and an interest in collaboration on interdisciplinary problems.

The initial appointment is full-time for one year with continuation upon satisfactory progress. The position is available immediately, and applications will be considered until the position is filled.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination and Affirmative Action Policy.

Please email a cover letter stating your research accomplishments and interests, a curriculum vitae, representative publications, a sample of written code in any programming language, and contact information for three references to:

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