



Position for Nick Lutsko, Sarah Gille, Matthew Mazloff, Bruce Corneulle

Contact Name: Professor Nick Lutsko

Contact Email: nlutsko@ucsd.edu

Title of the Position: Postdoctoral Scholar-Employee

School or Division: Scripps Institution of Oceanography

Center, Institute, or other Organized Unit: Climate, Atmospheric Science and Physical Oceanography

Disciplinary Specialty of Research: Physical Oceanography, Machine Learning

Description of the Position:

Postdoctoral researcher will carry out high resolution (LES) simulations of the upper ocean, forced by a wide range of weather conditions and including a full spectrum of surface waves. The researcher will then use machine-learning tools to build surrogate models of the LES simulations that produce accurate predictions of key upper ocean variables, such as sea-surface temperatures and mixed-layer heat content, for use in coupled weather forecast models. A multi-pronged machine-learning approach will be used in order to identify the optimal approach. Research will emphasize cutting-edge data analysis techniques and the physics of the upper ocean. We aim to provide a nurturing environment and engaged mentoring to support the postdoctoral researcher's professional development. Contact Nick Lutsko nlutsko@ucsd.edu or Sarah Gille sgille@ucsd.edu for further information.

Qualifications Required and Preferred Academic Background:

Applicants should have 0-2 years of Postdoctoral experience, or be nearing completion of their Ph.D. (estimated within 3 months), and be self-motivated and hard-working. Good written and verbal communication skills, including the ability to produce scientific publications and presentations and meet project milestones are required. A strong analytical background, with a Ph.D. in physical oceanography, atmospheric science, computer science or a related field is required. Experience with machine learning techniques and/or LES models of the upper ocean are strongly desired.

Appointment Length/Period: Initial appointment is for one year, with extension possible contingent upon candidate eligibility, performance and availability of funding. Desired start date is July 1, 2021, or by mutual agreement.

Application Procedure: Please contact Professor Nick Lutsko via email at nlutsko@ucsd.edu with a CV, a personal statement of the candidate's experience and career goals, and the names and email contact information for three referees.

The University of California, San Diego is an AA/EOE.

Application Closing Date MM/DD/YYYY or indicate open until filled: open until filled, with preference to applications received by May 21, 2021.

Job Posting Expiration: 5/21/21