



Ocean Dynamics and Prediction Branch

Covariance modeling in data assimilation

The Naval Research Laboratory (NRL) is seeking a postdoctoral researcher in applied math with applications to physical oceanography. The focus will be on sparse approximations to the inverse of the error covariance model of the SWOT altimeter mission developed at the Jet Propulsion Laboratory. The work requires good math and programming skills (Matlab, Python, Fortran). Familiarity with the state-of-the-art numerical modeling and data assimilation algorithms constrained by numerical models will be a plus. Apart from the analytic work, numerical experimentation with a regional configuration of the NCOM data assimilation system will be utilized for testing the accuracy of the approximations. Related publications at doi.org: 10.3390/rs14122827; 10.1016/j.ocemod.2020.101683; 10.3390/rs12111823; 10.1002/qj.3336.

This is an excellent opportunity to work with some of the best modelers and data analysts in the oceanographic community. The Naval Research Laboratory has access to the major supercomputer sites in addition to excellent local computer resources. The laboratory at Stennis Space Center is collocated with the Naval Oceanographic Office and Fleet Numerical Meteorology and Oceanography Center, which are the largest national operational forecast center for oceanography.

For a quick overview of some of the research publications within the NRL Ocean Sciences division at Stennis Space Center and systems transitioned to operations, visit the web site:

<https://www7320.nrlssc.navy.mil/allpubs.php>

Annual postdoctoral salary is \$79,363. Applicants must be a US citizen or permanent resident at time of application. NRL is an equal opportunity employer. Send resume to:

Max Yaremchuk
NRL Code 7321
Stennis Space Center, MS 39529

via e-mail: max.yaremchuk@nrlssc.navy.mil



MINIMUM REQUIREMENTS

Security clearance is not required, but applicants must be eligible to obtain and maintain a DoD Security Clearance.

JOB BENEFITS

The post doctorate programs at NRL offer benefits including health and life insurance.

NRL is an Equal Opportunity Employer

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