

Postdoc position in flow physics of oceanic microplastics
and surfactants
University of Michigan

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Posted Nov. 23, 2021, set to expire Mar. 25, 2022

Job Title	Postdoc position in flow physics of oceanic microplastics and surfactants
Department	Department of Naval Architecture and Marine Engineering & Department of Climate and Space Science and Engineering
Institution	University of Michigan Ann Arbor, Michigan
Date Posted	Nov. 23, 2021
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Marine/Freshwater Sciences

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Job Description

The University of Michigan seeks a postdoctoral scholar supervised by Prof. Yulin Pan (Department of Naval Architecture and Marine Engineering, <https://sites.google.com/umich.edu/fpel>) and co-supervised by Prof. Chris Ruf (Department of Climate and Space Sciences and Engineering, <http://www-personal.umich.edu/~cruf/>). The successful applicant will work on the understanding of flow physics underlying the CYGNSS remote sensing detection of oceanic microplastics (<https://news.engin.umich.edu/2021/06/tracking-ocean-microplastics-from-space/>) as well as the global transport model of oceanic microplastics. Depending on the applicant's interest, specific topics can be chosen from (1) Numerical and experimental study of the effect of surfactants and floating particles on water waves and surface roughness; (2) Development of global or regional transport model for oceanic microplastics and identification of the correlation between model results and CYGNSS measurements; (3) Comparison of CYGNSS-measured mean square slope and its hindcast by ocean wave models to identify and understand the reasons for their differences.

The successful applicant is expected to have a Ph.D. in fluid dynamics, oceanography or other related

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fields. Expertise in computational fluid dynamics (especially multi-phase flow), ocean models and additional knowledge of remote sensing are preferred. Interested applicant can directly contact Prof. Yulin Pan at yulinpan@umich.edu with a CV and 1~3 representative publications.

This position is available immediately. The initial contract would be for two years, which can be extended upon mutual agreement.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact