Postdoctoral scholar or researcher on climate intervention by seeding polar mixed-phase clouds
University of California – Los Angeles

We are seeking a talented and driven postdoctoral scholar or researcher to join our multidisciplinary team seeking to determine whether seeding wintertime polar mixed-phase clouds could be a viable climate intervention technique. This recently proposed technique, termed mixed-phase cloud thinning (MCT), could potentially produce substantial wintertime cooling of the polar regions, thereby mitigating the impacts of global warming on these sensitive regions. Moreover, MCT could have fewer negative side effects than more established climate intervention techniques.

Your Role: As a key member of our team, you will:
- Employ Energy Balance Models to understand the first-order climate response of MCT-induced wintertime cooling of the polar regions
- Modify and use a global climate model, such as the Community Earth System Model, to simulate the effects of MCT and analyze detailed climate responses
- (Optional) Collaborate with UCLA’s Graduate School of Education to develop inquiry-based high school lesson plans on climate change and climate intervention, to be taught across the LA Unified School District
- Co-supervise graduate and undergraduate students
- Effectively communicate research findings in written and oral form

We Are Looking For:
- A Ph.D. in atmospheric science, meteorology, physics, engineering, or a related field (by appointment start date)
- Expertise in climate dynamics and/or in interactions between aerosols, radiation, and clouds
- Experience using global climate models like the Community Earth System Model or the Energy Exascale Earth System Model
- Skill in analyzing climate model data
- Strong mentoring, quantitative, programming, and communication skills
- We particularly encourage applications from groups that are historically underrepresented in the geosciences and especially from Arctic communities, which MCT might affect and potentially benefit the most.

Our commitment:
You’ll be part of Prof. Kok’s Aerosol-Climate Interactions group (see http://jasperfkok.com), which is deliberate about providing a supportive environment
for students, postdocs, and researchers of all backgrounds. We value diverse perspectives and actively engage with UCLA’s Center for Diverse Leadership in Science. You will also collaborate with and receive mentorship from the rest of the team at the Scripps Institute of Oceanography (Profs. Amato Evan, Ian Eisenman, and Sarah Aarons) and the University of Maryland (Dr. Lauren Zamora).

Position details:

- Location: UCLA.
- Competitive, experience-based salary in the range of $60k to $72k per year.
- U.S. citizenship or residency is not required.
- One-year appointment, renewable up to at least 3 years based on performance.
- Flexible start date, preferably Winter/Spring 2024.
- Inclusive and supportive research environment.

Application Process:
Please submit a single PDF containing your CV, cover letter, references (three), graduate transcripts (if within two years from PhD), and a summary of recent work and interests (max one page) to Prof. Jasper Kok (jfkok@ucla.edu) and Prof. Amato Evan (aevan@ucsd.edu).

Applications are reviewed on a rolling basis until the position is filled. Only shortlisted candidates will be contacted.

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 please follow this link: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>.