Postdoctoral position in AI and climate

The Climate Intelligence Lab at Johns Hopkins University, led by Professor Karen McKinnon, is hiring for a postdoctoral scholar to work at the intersection of AI and climate.

The initial focus of the postdoc will be developing, validating, and analyzing AI-based observational large ensembles using emulators to quantify risk of low-probability, high-impact extremes. The validation will focus both on the statistics of the ensembles and analysis of the physical mechanisms that lead to the extremes in the AI ensembles.

There is also scope, based on the interests of the postdoc, to develop frameworks for uncertainty quantification for AI weather, S2S, and climate models, and flexibility to work on emerging problems in the field.

The position is in-person, and there is support for conference travel and other professional development.

The required qualifications are:

- A PhD in atmospheric science, climate science, Earth science, or related fields; or a PhD in computer science, applied math, statistics, or related fields with demonstrated interest and publications in climate science
- Strong quantitative skills
- Fluency in Python
- Excellent oral and written communication skills, including scientific writing
- Demonstrated independence as a researcher

The ideal candidate will also have demonstrated deep knowledge of and/or experience developing AI emulators for geophysical or related data.

The position is for two years, subject to renewal after one year, and may be extended further subject to funding availability and fit.

To apply, please email Prof. McKinnon at karen.mckinnon@jhu.edu.

- Subject line: AI/climate postdoc application
- Cover letter (pdf, one page) explaining your interest and fit to the position
- CV, including at least degrees, publications, and awards (pdf)
- A list of 3 references, including your relationship to them and their email address

Application review will begin on September 10. The position could begin as soon as November 1, with an ideal start date between November 1 and March 1.