

Hello,

My name is Liang Yu. I have a very strong background about data analysis and have been analyzing data for 8+ years for my Master and PhD thesis. I am writing today to apply the position of survey data analyst.

I got my Ph.D. in climate dynamics in May 2019 at George Mason University (GMU). My dissertation is titled "The Impact of Surface Forcing on the Atlantic Multidecadal Variability" and supervised by Dr. Bohua Huang. To study how the ocean responds to different surface forcing on multidecadal time scales, a series of sensitivity experiments is conducted using the ocean component of Community Earth System Model, version 1.1.1. Using this state-of-art model and longer surface forcing (600 years), we find that: (1) similar to previous studies, the surface heat flux (SHF) plays a key role in driving the Atlantic meridional overturning circulation (AMOC) and upper ocean heat content (UOHC) multidecadal variability; (2) Different from those studies, we also find that surface momentum flux (SMF) anomalies can also generate substantial AMOC multidecadal variability, although its amplitude is weaker than that generated by SHF; (3) UOHC generated by SMF is confined to a smaller region along Gulf Stream extension.

I love learning new stuff and solving problems with code. Therefore after graduating from GMU, right now I am working for Overture LLC. At this compony, we use java, SQL and Hibernate to maintain the database. Moreover, we use many other widely used tools, such as git, maven, JUnit, postman and flyway. I also have some experience about Spring framework and Spring boot for dependency injection (DI) and controller/service layer programming (RESTful API design).

Thank you for your consideration. I look forward to hearing from you.

Sincerely,

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