Wandi Yu

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SUMMARY

A Ph.D. student with 6-years of experience analyzing big data using statistical and modeling method, proficient with Python, and familiar with machine learning, is seeking for a job in the field of data science.

SKILLS

- Programming: Python (Xarray, Pandas, Numpy, netCDF4, Scipy, Matplotlib, seaborn, Scikit-Learn), SQL, IDL, Fortran, MATLAB, R
- Machine learning: regression, SVM, KNN, decision tree, logistic regression, deep learning, K-means clustering, recommendation system
- Climate model: TRAJ_3D model, GEOSCCM, WACCM
- Numerical skills: Fourier analysis, interpolation, band pass filter, numerical differentiation and integration

EXPERIENCE

Research Assistant, Texas A&M University, September 2014-Current, College Station, Texas

- Analyze big data related to the global climate using Python.
- Utilize and maintain models running on the supercomputer to improve the understanding of the global climate.

Graduate Visitor fellowship, National Center for Atmospheric Research, April 2019-September 2019, Boulder, Colorado

- Analyzed climate and chemistry data using statistical and modeling methods.
- Communicated with people in NCAR, made people understand the importance of my research on climate change.

EDUCATION AND TRAINING

Department of atmospheric Sciences, Texas A&M University, College Station, TX

Ph.D.	GPA: 4.000 / 4.000	Expected in Dec 2020
Master of Science	GPA: 3.806 / 4.000	Dec 2017

School of atmospheric Sciences, Nanjing University, Nanjing, China

Bachelor of Science	GPA: 4.260 / 5.000	Jun 2014

CERTIFICATIONS

IBM data science certificate by Coursera

Stanford machine learning certificate by Coursera

WRF tutorial certificate by NCAR
Intro to Machine Learning, Intermediate Machine Learning, Feature Engineering, and Machine Learning Explainability by Kaggle

PRESENTATIONS

Model simulation of convectively lofted ice contribution to stratospheric water vapor, Department graduate student seminar, 2017, College Station
Model simulation of convectively lofted ice contribution to stratospheric water vapor, AGU FALL MEETING 2017, New Orleans
Model simulation of convectively lofted ice contribu6tion to stratospheric water vapor, AMS ANNUAL MEETING, 2018, Austin
Influence of convection to North America stratospheric water vapor, NOAA ESRL Chemistry & Climate Processes group meeting, 2019, Boulder
Influence of convection on stratospheric water vapor in the North American monsoon, NCAR ACOM UTLS group meeting, 2019, Boulder
Influence of convection on stratospheric water vapor in the North American Monsoon region , AGU FALL MEETING, 2019, San Francisco

PUBLICATIONS

Yu, W., Dessler, A., Park, M., and Jensen, E.: Influence of convection on stratospheric water vapor in the North American Monsoon region, Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2020-405, in review, 2020.

Wandi Yu, Andrew E. Dessler, Mark Schoeberl, Hao Ye, Tao Wang. " Factors contributing to the projected trend in stratospheric water vapor over the 21st century." *In Prep*

Wang, X., Dessler, A. E., Schoeberl, M. R., **Yu, W.,** and Wang, T.: Impact of convectively lofted ice on the seasonal cycle of water vapor in the tropical tropopause layer, Atmos. Chem. Phys., 19, 14621–14636, 2019.

Ye, Hao, Andrew E. Dessler, and **Wandi Yu**. "Effects of convective ice evaporation on interannual variability of tropical tropopause layer water vapor." *Atmospheric Chemistry and Physics* 18.7 (2018): 4425-4437.

SPONSORSHIP STATUS

F1 visa holder, need sponsorship to apply for H1B in the future.