

# Stanford

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## Catherine Wilka

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### Bio

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#### STANFORD ADVISORS

- Aditi Sheshadri, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Updates on Model Hierarchies for Understanding and Simulating the Climate System: A Focus on Data-Informed Methods and Climate Change Impacts** *JOURNAL OF ADVANCES IN MODELING EARTH SYSTEMS*  
Mansfield, L. A., Gupta, A., Burnett, A. C., Green, B., Wilka, C., Sheshadri, A.  
2023; 15 (10)
- **A Method for Estimating Global Subgrid-Scale Orographic Gravity-Wave Temperature Perturbations in Chemistry-Climate Models** *JOURNAL OF ADVANCES IN MODELING EARTH SYSTEMS*  
Weimer, M., Wilka, C., Kinnison, D. E., Garcia, R. R., Bacmeister, J. T., Alexander, M. J., Doernbrack, A., Solomon, S.  
2023; 15 (9)
- **Effects of denitrification on the distributions of trace gas abundances in the polar regions: a comparison of WACCM with observations** *ATMOSPHERIC CHEMISTRY AND PHYSICS*  
Weimer, M., Kinnison, D. E., Wilka, C., Solomon, S.  
2023; 23 (12): 6849-6861
- **Atmospheric Chemistry Signatures of an Equatorially Symmetric Matsuno-Gill Circulation Pattern** *JOURNAL OF THE ATMOSPHERIC SCIENCES*  
Wilka, C., Solomon, S., Cronin, T. W., Kinnison, D., Garcia, R.  
2021; 78 (1): 107-116