

# Stanford

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## Adam Burnett

Ph.D. Student in Earth System Science, admitted Summer 2019

### Bio

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#### BIO

I grew up in Westmoreland, New Hampshire, and graduated from Dartmouth College in 2018 with an undergraduate degree in physics. I am broadly interested in atmospheric dynamics, idealized modeling, and climate change. My current research uses aquaplanet simulations to explore what factors determine global tropical cyclone frequency. My hobbies include hiking, birdwatching, and playing the piano.

#### EDUCATION AND CERTIFICATIONS

- BA, Dartmouth College , Physics (2018)

### 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)
- **Tropical cyclone frequency under varying SSTs in aquaplanet simulations** *Geophysical Research Letters*  
Burnett, A. C., Sheshadri, A., Silvers, L. G., Robinson, T.  
2021
- **Estimating polar cap density and medium frequency burst source heights using 2fce roar radio emissions** *Journal of Geophysical Research: Space Physics*  
Burnett, A. C., LaBelle, J.  
2020