#### NICHOLAS JAMES LUTSKO

Postdoctoral Associate at MIT Department of Earth, Atmospheric and Planetary Sciences

Email: lutsko@princeton.edu Program in Atmospheric and Oceanic Sciences Website: https://nicklutsko.github.io 300 Forrestal Road, Sayre Hall

Princeton, NJ 08544.

## Education

2012-2017 **Ph.D.** Princeton University.

Thesis title: Aspects of Eddy Momentum Fluxes in the General Circulation of the

Troposphere.

Adviser: Professor Isaac Held

2008-2012 Msci. Geophysics, Imperial College London

#### **Publications**

Under review	Lutsko, N. J., Held, I. M., and Takahashi, K. What can the internal variability of cmip5 models tell us about their climate sensitivity? <i>Journal of Climate</i> , Submitted
2017	Lutsko, N. J. (2017). The response of an idealized atmosphere to enso-like heating: Superrotation and the breakdown of linear theory. <i>Journal of the Atmospheric Sciences</i> , In press
	Popp, M. and Lutsko, N. J. (2017). Quantifying the zonal-mean structure of tropical precipitation. <i>Geophysical Research Letters</i> , In press
	Lutsko, N. J., Held, I. M., Zurita-Gotor, P., and O'Rourke, A. K. (2017). Lower tropospheric eddy momentum fluxes in idealized models and reanalysis data. <i>Journal of the Atmospheric Sciences</i> , In press
2016	Lutsko, N. J. and Held, I. M. (2016). The response of an idealized atmosphere to orographic forcing: Zonal vs meridional propagation. <i>Journal of the Atmospheric Sciences</i> , 73(8):3701 – 3718
2015	Lutsko, N. J., Held, I. M., and Zurita-Gotor, P. (2015). Applying the fluctuation—dissipation theorem to a two-layer model of quasi-geostrophic turbulence. <i>Journal of the Atmospheric Sciences</i> , 72(8):3161 – 3177

## Conference Presentations

2017	AOFD (Talk) Lower Tropospheric Eddy Momentum Fluxes in Idealized Models and Reanalysis Data
2016	<b>AGU</b> (Talk) What Can the Internal Variability of Climate Models Tell Us About Their Climate Sensitivity?
	<b>Model Hierarchies Workshop</b> (Poster) The Responses of Idealized Atmospheric Models to Orographic Forcing
2015	<b>AOFD</b> (Talk) The Response of the Mid-Latitudes to Idealized Orography in the Presence of a Jet
	<b>AOFD</b> (Poster) Applying the Fluctuation–Dissipation Theorem to a Two-Layer Model of Quasi-Geostrophic Turbulence

## Seminars

2017 University of Chicago, Geophysical Fluid Dynamics Laboratory (thesis defense), Columbia University

#### Professional Activities

**Reviewer** Journal of the Atmospheric Sciences, Journal of Climate, GFDL Internal Reviews.

June 2017 AOFD Session Chair Theme: Theoretical Advances in AOFD.

August 2015 Organizer Princeton AOS Workshop. Theme: Using Climate Models to Study Extreme Climates.

Fall 2013 – Spring 2014 Organizer Princeton AOS Student Seminar series.

# Awards, Fellowships and Summer Schools

2016	Rossbypalooza
2014	Cambridge FDSE Summer School
2013-2016	NSF Graduate Research Fellowship
2012	Princeton University Centennial Fellowship
2012	Imperial College Governor's Prize
2008	R. Stoddard Longcroft Prize at Imperial College

## Teaching

Spring 2016 Assistant Instructor Princeton GEO202: Ocean, Atmosphere, and Climate
(with Professor Allison Gray)

Fall 2015 Assisted with class projects Princeton AOS576: Current Topics in Dynamic
Meteorology Large-Scale Structure/Atmosphere (with Professor Isaac Held)