



## JOSEPH ANDERSEN

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### EDUCATION

- Ph.D                Harvard University, March 2012 (anticipated)  
M.S.                Harvard University, May 2004  
B.Sc. (Hons.)     The University of Queensland, Australia 1999

### PUBLICATIONS/PRESENTATIONS

- Andersen, Friese, Truscott, Ficek, Drummond, Heckenberg and Rubinsztein-Dunlop. Light guiding light: Nonlinear refraction in rubidium vapour. *Phys Rev A*, **63** 023820 (2001)
- Andersen and Kuang. A Toy Model of the Instability in the Equatorially Trapped Convectively Coupled Waves on the Equatorial Beta Plane. *Journal of the Atmospheric Sciences*, **65** (12), 3736-3757 (2008)
- Andersen and Kuang. The MSE Budget of MJO-like disturbances observed in a zonally symmetric aquaplanet with SP-CAM, *J. Clim.* (2012, In Press)
- Andersen [http://ams.confex.com/ams/28Hurricanes/techprogram/paper\\_138350.htm](http://ams.confex.com/ams/28Hurricanes/techprogram/paper_138350.htm); A toy model of the instability in the equatorially trapped convectively coupled waves, **28Hurricanes**, Orlando, 1 Mar 2008.

### RESEARCH EXPERIENCE

- Construction and analysis of a simple model of equatorial convectively coupled waves to explore the basic mechanisms of convection that determine the convective wave structure.
- Production and analysis of high resolution simulations of convection and tropical waves using SAM, WRF, and SP-CAM.
- Analysis of Energy Sources, sinks and flows in the Madden-Julian Oscillation.

## **AWARDS**

- University Medal, UQ, 2000

## **REFERENCES AVAILABLE ON REQUEST:**

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