

## Chaim I. Garfinkel

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### Education

Ph.D. Atmospheric Sciences, University of Washington, 2010 (Expected)

M.S. Atmospheric Sciences, University of Washington, 2008; G.P.A. 3.87.

Title: *External Sources of Interannual Variability of the Polar Vortex*

B.S. Applied and Engineering Physics, Cornell University, 2005, *Cum Laude* with Departmental Honors; G.P.A. 3.70.

### Research Experience

Research Assistant 2005–present  
Dennis Hartmann University of Washington  
Investigate the effects of ENSO and the QBO on the polar winter stratosphere using observational and model data.

Undergraduate Researcher 2004–2005  
Charles Seyler Cornell University  
Simulated magnetic reconnection in a 1-D particle model. Investigated nonlinear and linear regimes. Presented results in a senior thesis.

Undergraduate Researcher 2004  
Gregory Falkovich Weizmann Institute of Science  
Programmed a computer simulation in Java to analyze the transition between turbulence and thermal equilibrium in sound waves.

Undergraduate Researcher 2003  
Giovanni Lapenta Los Alamos National Lab  
Generalized a object-oriented program that simulated plasma interactions by allowing relativistic conditions and more general boundary conditions.

### Teaching Experience

Teaching Assistant, Introduction to Atmospheric Sciences (Atmos 101), University of Washington, Spring 2007.

Teaching Assistant, Computer Instrumentation (AEP 264), Cornell University, Autumn 2004.

### Refereed Publications

Garfinkel, C.I., and D.L. Hartmann (2007), Effects of the El-Nino Southern Oscillation and the Quasi-Biennial Oscillation on polar temperatures in the stratosphere , J. Geophys. Res. Atmos., 112, D19112, doi:10.1029/2007JD008481.

Garfinkel, C.I., and D.L. Hartmann (submitted), The Different ENSO Teleconnections and Their Effects on the Stratospheric Polar Vortex , J. Geophys. Res. Atmos.

### Presentations

University of Washington Dynamics Seminar, January 2007.

14th Conference on the Middle Atmosphere, August 2007.

University of Washington Dynamics Seminar, October 2007.

### Other Experience

Tutored math and/or science for around 15 high school students.

Volunteered at science museums and science section of a children's museum.

### Honors and Awards

Dean's List 7 of 8 semesters, Cum Laude with Departmental Honors, Cornell University.

Top Scholar Award, University of Washington.

### Computer Skills

Expert: Matlab

Intermediate: Java, L<sup>A</sup>T<sub>E</sub>X, Maple, Unix

Basic: Fortran, C++