

## **STUDENT ADVISING**

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### ***CURRENT STUDENT ADVISING (underlined when Primary Advisor)***

**Student:** E. Rachel Bernstein, M.S. in Geography, UD

**Completed M.S. Thesis** (Spring 2010): Sea ice thickness and the distribution contributing to the mass balance of the southern ocean. **M.S. Thesis**

**Advisors:** Cathleen Geiger, Tracy DeLiberty, Steve Gaughan (CRREL).

**Funding:** Delaware Space Grant Fellowships (2009-2011)

**Ph.D. Topic:** Assessment of Antarctic Sea Ice Volume

**Ph.D. Thesis Advisors:** Cathleen Geiger, Tracy DeLiberty, others TBD

**Funding:** DoD SMART Scholarship (2011-2014)

**Student:** Penelope Wagner, M.S. University of Texas, San Antonio

**Ph.D. Thesis Title/Topic:** Development of a NASA QuikSCAT Scatterometer Data Set to Detect Sea Ice Extent and Variability in the Antarctic

**Funding:** NASA Fellowship (2009-2012)

**Advisors:** Cathleen Geiger, Tracy DeLiberty, David Long (BYU), others TBD

**Student:** Amanda Lawson, B.S. Geography, UD

**M.S. Thesis Title/Topic:** Using GIS to Research Sea Ice Dynamics in the Arctic

**Advisors:** Tracy DeLiberty, Cathleen Geiger, and Torge Martin (GEOMAR-IFM, Germany).

**Student:** Weihan Chen, M.S. in Geography, UD

**Ph.D. Thesis Topic:** Interdecadal relationships of climate indices and relationships to sea ice.

**Advisors:** Dan Leathers, Cathleen Geiger, Mary Stampone, others.

### ***PAST STUDENT ADVISING***

**Student:** Daria Kluever, Ph.D. in Geography (Concentration: Climatology)

**Ph.D. Thesis (2011):** Seasonal Snowfall Prediction using regionalized statistical models

**Advisors:** Dan Leathers, Allan Frei, Michael Palecki, Cathleen Geiger, David Legates

**Post-Degree:** Assistant Professorship Fall 2011 at the department of Geology and Meteorology at Central Michigan University, in Mt. Pleasant MI.

**Student:** Gina Henderson, Ph.D. in Geography (Concentration: Climatology)  
**Ph.D. Thesis (2010):** A general circulation model (GCM) investigation of snow cover-atmosphere-ocean interactions in the Northern Hemisphere slab ocean model.  
**Advisors:** Dan Leathers, Brian Hanson, Cathleen Geiger, Dave Robinson, Fabrice Veron.  
**Post-Degree:** Post-Doc at Rutgers under Dave Robinson (2010-2011), Assistant Professor of Oceanography, Annapolis Naval Academy (Fall 2011).

**Student:** Sarah Streeter, Freshman (Spring 2009)  
**Women in Science Project, Dartmouth College**  
**Poster:** It's Rough Out There: Comparison of Sea Ice Thickness Measurements from SEDNA 2007. Wetterhahn Science Symposium, Dartmouth College, Hanover, NH, May, 2009.  
**Funding:** CRREL WISP

**Student:** Mary (Lemke) Stampone, Ph.D. in Climatology, UD  
**Ph.D. Thesis (2009):** The Sensitivity of CSIM5 Sea-ice Simulations to Atmospheric State Variables.  
**Advisors:** Tracy DeLiberty, Cathleen Geiger, Steve Ackley, Cort Willmott, Brian Hanson  
**Funding:** NSF and Delaware Space Grant Fellowships (2002-2003)  
**Post-Degree:** Assistant Professor Geography and State Climatologist, University of New Hampshire

**Student:** Mani Thomas, Ph.D. in Computer Information Science, UD  
**MS Thesis (2003):** *Discontinuous Non-rigid Motion Analysis of Sea ice at the Mesoscale*  
**PhD Thesis (2008):** Analysis of large magnitude discontinuous non-rigid motion  
**Advisors:** Chandra Kambhamettu, Cathleen Geiger, Christopher Rasmussen, Tracy DeLiberty  
**Funding:** ONR, NSF, SEDNA Ice Camp 2007  
**Post-Degree:** Dermatology company developing 3D real-time face reconstruction for plastic surgery. Previous employment Quantum Leap, Newark, DE.

**Student:** Shelly Sood, Freshman (Spring 2008)  
**Women in Science Project, Dartmouth College**  
**Poster:** Sood, S., C. A. Geiger, J. R-Menge, B. C. Elder, (2008): Going Deep: Electromagnetism and Sea Ice Thickness, Wetterhahn Science Symposium, Dartmouth College, Hanover, NH, May 2008.  
**Funding:** CRREL WISP

**Student:** Tess Mattraw, Freshman (Spring 2007)

**Women in Science Project, Dartmouth College**

**Poster:** Mattraw, T., C. A. Geiger, J. R-Menge, B. C. Elder (2007), Under Pressure: Construction and use of stress buoys in the SEDNA project, Wetterhahn Science Symposium, Dartmouth College, Hanover, NH, May 2007.

**Funding:** CRREL WISP

**Student:** Nellie Elguidi, Ph.D. in Climatology, UD

**Ph.D. Thesis (2003):** *Investigation Subgrid-scale snowcover heterogeneity and the effects of snowcover on mid-latitude cyclones in the Great Plains.*

**Advisors:** Brian Hanson, Daniel Leathers, Richard Garvine, Cathleen Geiger, Thomas Mote

**Funding:** NSF and Delaware Space Grant Fellowship 2000-2001

**Post-Degree:** Post-Doc at the Physics of Weather and Climate Section, The Abdus Salam International Centre for Theoretical Physics, Trieste, ITALY. UC Santa Cruz., now at Laboratoire d'Aérodynamique, Université de Toulouse, Toulouse, *France*

**Student:** Beth A. Schellenberg, M.S. in Geography, UD

**M.S. Thesis (2002):** *Investigation of sea ice thickness variability in the Ross Sea*

**Advisors:** Tracy DeLiberty, Cathleen Geiger, Anthony Worby (Antarctic CRC, Australia), Michael Van Woert (National Ice Center)

**Funding:** NSF Project 3 Grant 1 and Project 1

**Post-Degree:** Lockheed Martin doing Classified (Security Clearance) Geographical Information Systems (GIS) related work.