

Darin Comeau

Citizenship: *United States*

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EDUCATION

- 2007 – present **PhD Candidate, Applied Mathematics**, *University of Arizona*, Tucson, AZ.
Minor: Statistics
Advisor: Juan Restrepo
- 2007 – 2008 **MS, Applied Mathematics**, *University of Arizona*, Tucson, AZ.
- 2003 – 2005 **MA, Mathematics**, *University of Pennsylvania*, Philadelphia, PA.
Advisor: Charles Epstein
Thesis: The Dirichlet-to-Neumann Map on 2-Dimensional Manifolds with Boundary.
- 1998 – 2002 **BA, Mathematics with Honors**, *New York University*, New York, NY.

RESEARCH INTERESTS

My current research interests are in stochastic methods for flow in random porous media and modeling iceberg dynamics. I am more generally interested in climate modeling, uncertainty quantification, geophysical fluid dynamics and data assimilation.

EXPERIENCE

RESEARCH

- Summer 2009 & Summer 2011 **Graduate Research Assistant**, *Los Alamos National Laboratory*, Fluid Dynamics & Solid Mechanics Group, Los Alamos, NM.
- Worked on incorporating iceberg dynamics and thermodynamics into the CICE sea ice model, focusing on iceberg-sea ice interaction.
- Supervised by Elizabeth Hunke.
- Spring 2011 **Research Assistant**, *University of Arizona*, Department of Mathematics, Tucson, AZ.
- Worked on developing a simple energy balance box ocean-ice model.
- Supervised by Juan Restrepo

TEACHING

- Fall 2011 **Instructor**, *Calculus I*, University of Arizona.
- 2010 - 2011 **Teaching Assistant**, *Principles of Applied Analysis*, University of Arizona.
- held weekly discussion sessions for graduate core analysis course.
- Spring 2009 **Instructor**, *Pre-Calculus*, University of Arizona.
- 2007 - 2008 **Instructor**, *Trigonometry*, University of Arizona.
- had primary teaching responsibilities; prepared lectures and class activities, held office hours, wrote exams, graded homework, quizzes, and exams.
- Spring 2005 **Teaching Assistant**, *Calculus IV*, University of Pennsylvania.
- Fall 2004 **Teaching Assistant**, *Calculus I*, University of Pennsylvania.
- held weekly discussion sessions and exam review sessions, graded homework and exams.

PUBLICATIONS

- 2011 E.C. Hunke and **D. Comeau**. Sea ice and iceberg dynamic interaction. *Journal of Geophysical Research*, 116(C5):C05008, 2011
- 2010 J.D. Pelletier, **D. Comeau**, and J. Kargel. Controls of glacial valley spacing on Earth and Mars. *Geomorphology*, 116:189-201
- 2009 J.D. Pelletier, T. Engelder, **D. Comeau**, A. Hudson, M. Leclerc, A. Youberg, and S. Diniega. Tectonic and structural control of fluvial channel morphology in metamorphic core complexes: The example of the Catalina-Rincon core complex, Arizona. *Geosphere*, 5(4):363-384

FELLOWSHIPS & AWARDS

- Summer & Fall 2010 NSF VIGRE Graduate Research Fellowship, University of Arizona.
- 2009 – 2010 Water Sustainability Program Fellowship, University of Arizona.

TALKS GIVEN

- April 2011 *Sea Ice and Iceberg Dynamic Interaction*, Arizona Days, University of Arizona.
- January 2011 *Modeling Flow in Random Porous Media*, Brown Bag Graduate Student Seminar, University of Arizona.
- October 2010 *Sea Ice and Iceberg Dynamic Interaction*, Modeling and Computation Seminar, University of Arizona.
- September 2010 *An Introduction to Geophysical Fluid Dynamics*, Brown Bag Graduate Student Seminar, University of Arizona.
- April 2009 *Glacier Erosion and Formation of Valley Chains of Lakes*, Brown Bag Graduate Student Seminar, University of Arizona.

WORKSHOPS ATTENDED

- August 2011 *SAMSI UQ Program: Climate Modeling Opening Workshop*, Pleasanton, CA
- June 2011 *16th Annual Community Earth Systems Model Workshop*, Breckenridge, CO
- July 2010 *Mathematics of Climate Change Summer School*, National Center for Atmospheric Research, Boulder, CO
- June 2010 *Data Assimilation and Climate Research*, National Center for Atmospheric Research, Boulder, CO

SERVICE

- 2010 – 2011 **Student Representative**, *Graduate Interdisciplinary Program Advisory Council*, University of Arizona.
- 2009 – 2010 **Organizer**, *Brown Bag Graduate Student Seminar*, University of Arizona.
- Spring 2008 **Webmaster**, *Uncertainty Quantification Workshop*, University of Arizona.

Last updated: September 6, 2011