

CONTACT INFORMATION	37 Greene St. #2, Burlington, VT 05401 <i>email:</i> kharris@uvm.edu Cell: +1 (802) 989-3766 http://www.uvm.edu/~kharris/
EDUCATION	University of Vermont , Burlington, Vermont <ul style="list-style-type: none"> · B.A., Mathematics, May 2009. Honors thesis topic: <i>Predicting Climate Regime Change in Chaotic Convection</i>. Advisor: Christopher M. Danforth. · B.A., Physics, May 2009. Pontificia Universidad Católica de Valparaíso , Valparaíso, Chile <ul style="list-style-type: none"> · ISEP Exchange Program, July 2007 to January 2008
RESEARCH AND TEACHING	Current Research <ul style="list-style-type: none"> · Chaotic convection with Chris Danforth, spring 2008 to present · Growth of optimal leaf venous networks with Peter Dodds, fall 2008 to present Undergraduate Research <ul style="list-style-type: none"> · Maximal sets of mutually orthogonal latin squares with Adam Wolfe, spring 2007 · Atomic force microscopy with Jie Yang, spring and summer 2007 Grader <ul style="list-style-type: none"> · MATH 173 Basic Combinatorial Theory, spring 2007 · MATH 019 Fundamentals of Calculus I, fall 2008 Tutor <ul style="list-style-type: none"> · UVM Learning Coop “in-house” tutor, December 2006 to March 2009 · VSAC Tutor Academy 2008 · Worked independently with students in the community
INVITED LECTURES	Harris, KD, Ridouane, E-H, Allgaier, NA, and Danforth, CM. <i>Predicting Climate Regime Change in Chaotic Convection</i> . University of Vermont, Burlington, VT. April 2009. Harris, KD and Danforth, CM. Substitute lecturer for MATH 266 Chaos and Fractals. University of Vermont, Burlington, VT. January 2009. Harris, KD and Danforth, CM. <i>Forecasting in a Chaotic Toy Climate</i> . <ul style="list-style-type: none"> · MAA Northeastern Sectional Meeting, St. Michael’s College, Burlington, VT. 2008. · University of Vermont, Burlington, VT. 2008.
CO-AUTHORED LECTURES	Danforth, CM, Harris, KD, Allgaier, NA, and Ridouane, E-H. <i>Data Assimilation as Synchronization of Model Forecasts to Observation</i> . Climate Change Summer School, MSRI, UC Berkeley, Berkeley, CA. 2008. Danforth, CM, Harris, KD, Allgaier, NA, and Ridouane, E-H. <i>Chaos and the Mathematics of Prediction: Harry Potter, Hurricane Katrina, and Happiness</i> . MAA Northeastern Sectional Dinner Meeting, Simmons College, Boston, MA. 2008. Danforth, CM, Harris, KD, Allgaier, NA, and Ridouane, E-H. <i>Chaos and the Mathematics of Prediction: from Hurricanes to Climate Change</i> . Bates College, Lewiston, ME. 2008.
HONORS AND AWARDS	University <ul style="list-style-type: none"> · Pending Fulbright scholarship to study transportation in Chile, 2010 · URECA! grant for thesis research, 2008–2009 · Honors College member, an academic and residential program · Vermont Scholar, provided full tuition and stipend for undergraduate study · GPA 3.93 cumulative, 4.00 in mathematics, and 3.95 in physics; graduated <i>magna cum laude</i> · GRE general scores: 690 verbal, 800 quantitative High School <ul style="list-style-type: none"> · Certificate of merit in the statewide UVM Math Contest, 2003 and 2004
SKILLS	<ul style="list-style-type: none"> ● Programming: MATLAB, C, \LaTeX, Java, HTML ● Operating Systems: Unix/Linux, OS X, Windows ● Fluent in Spanish including the vernacular of Chile ● Courses at graduate level: complex networks and systems, quantum and classical mechanics
INTERESTS	Skiing, frisbee, hiking, biking, Nature