

Curriculum Vita
David A. R. Kristovich, Ph.D.

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Adjunct Assoc. Professor

Department of Atmos. Sciences
University of Illinois

Head & Senior Scientist

Center for Atmospheric Sciences
Illinois State Water Survey
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Editor

American Meteorological Society
Journal of Applied Meteor. & Clim.

Academic Background

- Ph.D. Cloud Physics/Meteorology, Dept. Geophys. Sci., The University of Chicago, Chicago, IL, 1991.
The three-dimensional flow fields of boundary layer rolls observed during lake-effect snow storms, 182 pp. Research advisor: Dr. Roscoe R. Braham, Jr.
- S.M. Cloud Physics/Meteorology, Dept. Geophys. Sci., The University of Chicago, Chicago, IL 1988.
Reflectivity profiles and core characteristics along horizontal roll convection in lake-effect snowstorms, 78 pp.
- B.S. Meteorology, Dept. Meteorology and Physical Oceanography, Cook College, Rutgers University, New Brunswick, NJ, 1985.

Academic Employment History

Illinois State Water Survey

- *Center Head*, Center for Atmospheric Science (2007-present)
- *Senior Professional Scientist* (2001-present)
- *Professional Scientist* (1998-2001)
- *Associate Professional Scientist* (1995-1998)
- *Assistant Professional Scientist* (1993-1995)

University of Illinois, Department of Atmospheric Sciences

- *Adjunct Associate Professor* (2000-present)
- *Visiting Associate Professor* (1998-2000)

Other Academic Appointments

- *Graduate Faculty member*, University of Illinois in Urbana-Champaign (present)
- *Faculty of the Environment member*, University of Illinois in Urbana-Champaign (present)
- *Visiting Lecturer*, Department of Physics, University of Illinois in Chicago (1992)
- *Research Associate*, Dept. of Geophysical Sciences, University of Chicago (1991-1992)
- *Graduate Research Assistant*, Dept. of Geophysical Sciences, University of Chicago (1985-1991)
- *Graduate Teaching Assistant*, Dept. of Geophysical Sci., University of Chicago (Fall 1986, 1987)

Journal Editorial Activities, Reviews, Professional Committees

Journal Editorships

- *Editor*, American Meteorological Society Jour. of Applied Meteorol. & Climatol. (2001-present)
- *Associate Editor*, National Weather Digest, National Weather Association (2005-present)
- *Associate Editor*, American Meteorological Society Monthly Weather Review (2001)

Professional Committees

- *Member*, American Meteorological Soc. Comm. on Boundary Layers & Turbulence (2006-2008)

Workshops and Panels

- Invited presenter, *Airborne Doppler Radar Data Analysis Workshop*. Atmospheric Technology Div., National Center for Atmos. Research. (2000)
- Organizer, *Workshop on Lake-ICE and Snowband projects*. Illinois State Water Survey. (1999)

- Panel Member, *Boundary Layer Section, Workshop on the Midwest Collaborative Regional Climate Center*, Argonne National Laboratory. (1999)
- Participant, *Cooperative Atmosphere Surface Exchange Study (CASES) Workshop*. (1995)
- Panel Member, *Workshop on Cloud Microphysics and Radar*, American Meteor. Society. (1990)

Review Activities

- Reviewed proposals to the National Science Foundation (several programs), NCAR Atmos. Tech. Div., DOE Atmos. Radiation Meas. (ARM) Program, and UIUC Research Board.
- Reviewed manuscripts submitted to the *J. Applied Meteor.*, *Monthly Weather Rev.*, *Bulletin of the Amer. Meteor. Soc.*, *Weather and Forecasting*, *J. Geophysical Research*, *Geophysical Research Letters*, *Meteorology and Atmospheric Physics*, *J. Hydrology*, and *National Weather Digest*.

Peer-Reviewed Publications (34 published or in press)

- Keeler, J. M. and D.A.R. Kristovich, 2011: Observations of Urban Heat Island Influence on Lake-Breeze Frontal Movement. *J. Appl. Meteor. and Climatol.* In review.
- Workoff, T. E., D.A.R. Kristovich, N. F. Laird, R. LaPlante, and D. Leins, 2011: A climatological analysis of deep convective interaction with the Lake Erie marine boundary layer. *Wea. Forecasting*. In review.
- Markus, M., D. J. Wuebbles, X.-Z. Liang, K. Hayhoe, and D. A. R. Kristovich, 2011: Diagnostic analysis of future climate scenarios applied to urban flooding in the Chicago metropolitan area. *Climatic Change*. DOI 10.1007/s10584-011-0172-z.
- Barthold, F. E., and D. A. R. Kristovich, 2011: Observations of the cross-lake cloud and snow evolution in a lake-effect snow event. *Mon. Wea. Rev.* **139**, 2386-2398.
- Kunkel, K.E., D. R. Easterling, D.A.R. Kristovich, B. Gleason, L. Stoecker, and R. Smith, 2010: Trends in U.S. Heavy Precipitation Caused by Tropical Cyclones. *Geophysical Research Letters*. **37**, L24706, doi:10.1029/2010GL045164.
- Kristovich, D. A. R., 2009: *Climate Sensitivity of Great Lakes – Generated Weather Systems*. In *Climatology, Variability, and Change in the Midwest*, S. C. Pryor, Editor. Indiana University Press, 236-250.
- Kristovich, D. A. R., and K. E. Kunkel, 2009: *Overview: Climate Hazards*. In *Climatology, Variability, and Change in the Midwest*, S. C. Pryor, Editor. Indiana University Press, 219-224.
- Westcott, N. E., and D. A. R. Kristovich, 2009: A climatology and case study of continental cold season dense fogs associated with low clouds. *J. Appl. Meteor. and Climatol.*, **48**, 2201-2214.
- Gerbush, M. R., D. A. R. Kristovich, and N. F. Laird, 2008: Mesoscale Boundary Layer and Heat Flux Variations over Pack Ice-Covered Lake Erie. *J. Appl. Meteor. and Climatol.*, **47**, 668-682.
- Rodriguez, Y., D. A. R. Kristovich, and M. R. Hjelmfelt, 2007: Lake-to-Lake Cloud Bands: Frequencies and Locations. *Mon. Wea. Rev.*, **135**, 4202-4213.
- Schroeder, J.J., D.A.R. Kristovich, and M.R. Hjelmfelt, 2006: Boundary layer and microphysical influences of natural cloud seeding on a lake-effect snow storm. *Mon. Wea. Rev.*, **134**, 1842-1858. (Featured in the "Papers of Note" section, *Bull. of the Amer. Meteorol. Soc.*, Sept. 2006)
- Kristovich, D.A.R., and M. L. Spinar, 2005: Diurnal variations in lake-effect precipitation near the western Great Lakes. *J. Hydrometeorology*, **6**, 210-218.
- Grim, J. A., N. F. Laird, and D. A. R. Kristovich, 2004: Mesoscale Vortices Embedded within a lake-effect shoreline band. *Mon. Wea. Rev.*, **132**, 2269-2274.
- Laird, N.F., and D.A.R. Kristovich, 2004: Comparison of observations with idealized model results for a method to resolve winter lake-effect mesoscale morphology. *Mon. Wea. Rev.*, **132**, 1093-1103.
- Laird, N.F., J.E. Walsh, and D.A.R. Kristovich, 2003: Model simulations examining the relationship of lake-effect morphology to lake shape, wind direction, and wind speed. *Mon. Wea. Rev.*, **131**, 2101-2111.
- Kristovich, D.A.R., N.F. Laird, and M.R. Hjelmfelt, 2003: Convective evolution across Lake Michigan in a lake-effect snow event. *Mon. Wea. Rev.*, **131**, 643-655.
- Kunkel, K.E., N.E. Westcott, and D.A.R. Kristovich, 2002: Effects of climate change on heavy lake-effect snowstorms near Lake Erie. *J. Great Lakes Res.*, **28**, 521-536.
- Laird, N.F., D.A.R. Kristovich, and J.E. Walsh, 2002: Idealized Model Simulations Examining the Mesoscale Structure of Winter Lake-Effect Circulations. *Mon. Wea. Rev.*, **131**, 206-221.
- Young, G.S., D.A.R. Kristovich, M.R. Hjelmfelt, and R.C. Foster, 2002: Rolls, Streets, Waves and More. *Bull. Amer. Meteor. Soc.*, **83**, electronic 1001-1001.

- Young, G.S., D.A.R. Kristovich, M.R. Hjelmfelt, and R.C. Foster, 2002: Supplement to Rolls, Streets, Waves and More: A review of quasi-two dimensional structures in the atmospheric boundary layer. *Bull. Amer. Meteor. Soc.*, **83**, 997–1001. Also, an extended electronic supplement.
- Laird, N.F., and D.A.R. Kristovich, 2002: Variations of sensible and latent heat fluxes from a Great Lakes buoy and associated synoptic weather patterns, *J. Hydrometeor.*, **3**, 3-12.
- Laird, N.F., L. J. Miller, and D.A.R. Kristovich, 2001: Synthetic dual-Doppler analysis of a winter mesoscale vortex. *Mon. Wea. Rev.*, **129**, 312-331.
- Laird, N.F., D.A.R. Kristovich, X.-Z. Liang, R.W. Arritt, and K. Labas, 2001: Lake Michigan lake breezes: Climatology, local forcing, and synoptic environment. *J. Appl. Meteor.*, **40**, 409-424.
- Kristovich, D.A.R., G.S. Young, J. Verlinde, P.J. Sousounis, P. Mourad, D. Lenschow, R.M. Rauber, M.K. Ramamurthy, B.F. Jewett, K. Beard, E. Cutrim, P.J. DeMott, E.W. Eloranta, M.R. Hjelmfelt, S.M. Kreidenweis, J. Martin, J. Moore, H.T. Ochs, D.C. Rogers, J. Scala, G. Tripoli, and J. Young, 2000: The Lake-Induced Convection Experiment (Lake-ICE) and the Snowband Dynamics Project. *Bull. Amer. Meteor. Soc.*, **81**, 519-542.
- Kunkel, K.E., N.E. Westcott, and D.A.R. Kristovich, 2000: Effects of climate change on heavy lake-effect snowstorms near Lake Erie and other Great Lakes. *National Assessment on Impacts of Global Climate Change*, Environmental Protection Agency.
- Cooper, K.A., M.R. Hjelmfelt, D.A.R. Kristovich, N.F. Laird, and R.G. Derickson, 2000: Numerical simulations of convective rolls and cells in lake-effect snow bands. *Mon. Wea. Rev.*, **128**, 3283–3295.
- Kristovich, D.A.R., N.F. Laird, M.R. Hjelmfelt, R.G. Derickson, and K. Cooper, 1999: Transitions in boundary layer meso- γ convective structures: An observational case study. *Mon. Wea. Rev.*, **127**, 2895-1909.
- Kristovich, D.A.R. and N.F. Laird, 1998: Observations of widespread lake-effect cloudiness: Influences of upwind conditions and lake surface temperatures. *Wea. Forecasting.*, **13**, 811-821.
- Isard, S.A., D.A.R. Kristovich, S.H. Gage, C.J. Jones, and N.F. Laird, 1998: Atmospheric motion systems that influence the redistribution and accumulation of insects on the beaches of the Great Lakes in North America. *Physical Aerobiology*, vol. **1**.
- Kristovich, D. A. R., and R. R. Braham, Jr., 1998: Profiles of Moisture Fluxes in Snow-filled Boundary Layers. *Bound.-Lay. Meteor.*, **87**, 195-215.
- Braham, R.R., Jr., and D.A.R. Kristovich, 1996: On calculating the buoyancy of convective cores. *J. Atmos. Sci.*, **53**, 654-658.
- Kristovich, D.A.R., and R. Steve, 1995: A Satellite Study of Cloud-Band Frequencies over the Great Lakes. *J. Appl. Meteor.*, **34**, 2083-2090.
- Laird, N.F., D.A.R. Kristovich, R.M. Rauber, H.T. Ochs, III, and L.J. Miller, 1995: The Cape Canaveral sea and river breezes: Kinematic structure and convective initiation. *Mon. Wea. Rev.*, **123**, 2942-2956.
- Kristovich, D.A.R., 1993: Mean circulations of boundary-layer rolls in lake-effect snow storms. *Bound.-Lay. Meteor.*, **63**, 293-315.
- Kristovich, D.A.R., 1992: *Discover Weather*. Publications International, Lincolnwood, IL, 48 pp. (Reviewed in *Bull. Amer. Meteor. Soc.*, **76**, 778, *nominated for AMS L.J. Battan Award*).
- Braham, R.R., Jr., D.A.R. Kristovich & M.J. Dungey, 1992: Comparison of lake-effect snow precipitation rates determined from radar and aircraft measurements, *J. Appl. Meteor.*, **31**, 237-246.

Other Publications

- Changnon, S. A., J. Angel and D. Kristovich, 2010: *The Unusual Weather of 2009 in Illinois Created Major Economic Impacts*. Illinois State Water Survey Publication Series. ISWS RI-120.
- Changnon, S. A. and D. Kristovich, 2009: *The Severe Winter of 2008-09 in Illinois*. Illinois State Water Survey Publication Series. ISWS RI-118.
- Rauber, R.M., M. Garstang, and D.A.R. Kristovich, 2003: Editorial (on career of Dr. Marvin Wesely). *J. Appl. Meteor.*, **42**, 669.
- Labas and Kristovich, 2002: Chicago Chapter of AMS meeting summary. *Bulletin Amer. Meteor. Soc.*

Research Grants and Proposals in Review (18 funded)

- Current Kristovich, University of Illinois Research Board. *Investigation of the Climatic Reversal in Lake-Effect Snows near Lake Michigan*. Named a Arnold O. Beckman Award for “special distinction, special promise, or special resource value”. (2011-2012)
- Current Kristovich, National Science Foundation Physical & Mesoscale Meteorol. Prog. *Collaborative Research: Multi-Scale Study of Lake Breezes and the Impact of Marine Boundary Layers on Convection in the Great Lakes Region*. Collaborative with Laird, Hobart and William Smith Colleges. (2007-present)
- Current Kristovich, Laplante, and Leins, Cooperative Prog. for Operational Meteorol., Educ., and Training (COMET), Partners Project. *Variations in Thunderstorm Interactions with Lake Erie*. (2009-present)
- Current Kunkel, Easterling, and Kristovich, National Oceanic and Atmospheric Administration-Office of Global Programs, *Meteorological Causes of the Secular Variations in Observed Heavy Precipitation Events for the Conterminous United States*. (2007-present)
- Previous Kristovich, Czapar, and Markus, National Great Rivers Research & Educ. Center. *Internship: Effects of Climate Change on Increased Rainfall Intensity and Nutrient Loss*. (Summer 2011)
- Previous Kristovich, Department of Commerce, National Oceanic and Atmospheric Administration. Illinois-Indiana Sea Grant Development Prog. *Pilot field observations of Lake Michigan atmospheric boundary layers*. (2010-2011)
- Previous Kristovich and Caughey, Illinois State Toll Highway Auth., *Atmospheric Deposition of Roadway Deicing Material: Part B*. Collaborative with Tao, Univ. Maryland. (2007-2010)
- Previous Kristovich, National Science Foundation, Mesoscale Dynamic Meteorology Program, *Collaborative Research: Effects of Non-Uniform Surface Conditions on Lake-Effect Systems*. Collaborative with Hjelmfelt, South Dakota School of Mines and Tech., and Laird, Hobart and William Smith Colleges. (2005-2010)
- Previous Kristovich, and Laird, National Science Foundation, Mesoscale Dynamic Meteorol. Prog., *Collaborative Research: Investigations of Non-Classic Lake-Effect Boundary Layer Processes*. Collaborative with Hjelmfelt, South Dakota School of Mines & Tech. (2002-2006)
- Previous Kristovich, University of Illinois Research Board, *Multiple-Lake Lake-Effect Snowstorms: Frequency of Occurrence and Favorable Environmental Conditions*. (2002-2004)
- Previous Kristovich, Laird, LaPlante, and Kubina, The Cooperative Program for Operational Meteorology, Education, and Training (COMET), *The influence of the Lake Erie lake breeze on thunderstorm initialization*. (2001-2003)
- Previous Kristovich, National Science Foundation, Mesoscale Dynamic Meteorology Program, *Investigations of Mesoscale Boundary Layer Structures Observed during the Lake-Induced Convection Experiment (Lake-ICE)*. Collaborative with Hjelmfelt, South Dakota School of Mines and Tech. (1999-2003)
- Previous Kristovich, University Corporation for Atmospheric Research, *Supercomputer support for NSF projects on lake-effect snow storms*. (1996-2010)
- Previous Kristovich, National Science Foundation, Mesoscale Dynamic Meteorology Program, *Convective Rolls and Cells in Lake-effect Snowstorms: Structures, Mechanisms, and Effects*. Collaborative with Hjelmfelt, South Dakota School of Mines and Tech. (1996-2000)
- Previous Kristovich, University of Illinois Research Board, *Investigations of mesoscale circulations in Lake-ICE*. (1999-2000)
- Previous Kristovich, National Oceanic and Atmospheric Administration, Great Lakes Environmental Research Laboratory, *Estimation of Lake-Effect Snowfall Rates from New Observational Facilities*. (1995-1998)
- Previous Kristovich, National Science Foundation, Mesoscale Dynamic Meteorology Prog., *Lake-Effect Boundary Layer Processes*. Collab. with Braham, North Carolina State Univ. (1993-1996)
- Previous Kristovich, University of Illinois Research Board, *Radar Investigations of Lifetimes of Lake-Effect Convection*. (1993-1994)

Field Projects

Leadership Activities

- Laird and Kristovich, D.A.R.. National Science Foundation, Mesoscale Dynamic Meteorol. Program, *Facilities and Operations Support for the Great Lakes Ice Cover – Atmospheric Flux (GLICAF) experiment*. (2004)
- Kristovich, Young, Verlinde, Sousounis, Mourad, Lenschow, Cutrim, DeMott, Eloranta, Hjelmfelt, Kreidenweis, Martin, Moore, Ochs, Rogers, Scala, Tripoli, and Young. National Science Foundation, Mesoscale Dynamic Meteorology Program. *Facilities and operations support for the Lake-Induced Convection Experiment (Lake-ICE)*. (1997-1998)

Participation

- The Great Lakes Ice Cover – Atmospheric Flux (GLICAF), Co-PI. (2004)
- Lake-Induced Convection Experiment (Lake-ICE), *Head, Scientific Steering Committee, Lead PI*. (1997-1998)
- NWS Lake-Effect Snow Study (LES), participant, PI. (1994-1997)
- Winter Icing and Storms Project (WISP), participant (1994)
- Fronts and Atlantic Storm Track Exp. (FASTEX), participant (1997)
- Convection and Precipitation/Electrification experiment (CaPE), research (1996)
- Univ. Chicago Lake-effect Snow Storm (LESS) project, research using observations (1983-1984)

Invited Presentations

- Observations of Airborne Deposition of Roadsalt. *Illinois Toll Highway Authority* (2011)
- Encounters Between Thunderstorms and the Great Lakes. *Department of Geophysical Sciences, Hobart and William Smith Colleges* (2010)
- Observations of atmospheric boundary layers in regions with complex surfaces. *Center for Numerical Weather Prediction, Chinese Academy of Meteorological Sciences* (2010)
- Coastal Urban Heat Islands. *Workshop, Illinois-Indiana Sea Grant Program*. (2010)
- Lake-effect snow storms: from crystals to climate. *Department of Geography and Meteorology, Valparaiso University* (2010)
- Micro-Scale Processes Influencing the Intensity of Lake-Effect Snowstorms. *7th Annual Great Lakes Meteorology Conference* (2009)
- Land and Lake-surface Influences on Lake Breezes and Squall Lines. *Chicago Chapter of the American Meteorological Society* (2009)
- Land and Lake-surface Influences on Lake Breezes and Squall Lines. *National Weather Service Forecast Office - Chicago, IL*. (2009)
- Flying in Lake-Effect: Observational Studies of Great Lakes Snowstorm Processes. *Chicago Chapter of the American Meteorological Society* (2007)
- Recent Research Findings and Scientific Literature on Lake-Effect Snow Storms. *National Weather Service Forecast Office – Cleveland, OH*. (2005)
- Field Observations of Complex Lake-Effect and Lake-Enhanced Snow Storms. *National Weather Service Forecast Office – Chicago*. (2004)
- Intimate Looks at Lake-Effect Storms: Field Project Experiences. *Chicago Chapter of the American Meteorological Society, Banquet Meeting*. (2004)
- Differences Between ‘Classic’ and ‘Enhanced’ Lake-Effect Snow Storms. *Great Lakes Meteorology Conference*. (2003)
- Great Lakes Weather: Snow, Thunder, Insects, and Airsick Bags. *World of Science Lecture Series, Parkland College*. (2002)
- Mesoscale Weather Systems Triggered by the Great Lakes. *Central Illinois Chapter of the American Meteorological Society*. (2002)
- How Do “Enhanced” Lake-Effect Storms Work? *Chicago Chapter of the American Meteorological Society*. Presented with Schroeder. (2002)
- The Influence of Low-Level Shear on Lake-Effect Roll Formation. *Colloquium, Dept. Meteorology, Pennsylvania State University*. (2000)
- ELDORA observations of Great Lakes snowstorms. *Airborne Doppler Radar Data Analysis Workshop, National Center for Atmos. Research*. (2000)
- Observations of lake-effect mesoscale circulations (Lakesnow Project, NWS Lake-effect snow study, Lake-ICE). *Colloquium, Dept. Meteorology, Pennsylvania State University*. (1999)

- Experiences in a lake-effect field project during an El Niño year. *Chicago Chapter of the American Meteorological Society*. (1998)
- Overview of Lake-ICE and Snowband Projects. *Southeast Lower Michigan Chapter of the American Meteorological Society*. Presented with Sousounis, Moore, Mann and Jewett (1997).
- Lake-Induced Convection Experiment. *Winter Weather Workshop, National Weather Service Office - Grand Rapids, MI*. (1997)
- Mesoscale convective circulations in lake-effect storms: Causes, effects, and mysteries. *St. Louis Chapter of the American Meteorological Society*. (1997)
- Who holds the reigns on lake-effect snows? *Colloquium. Univ. Wisconsin - Milwaukee*. (1996)
- Methods of estimating lake-effect snowfall rates near Lake Michigan. *National Weather Service Operational Support Facility, Fac. for Integrated Remote Sensing Tech. Training*. (1996)
- Recent and up-coming Great Lakes-effect research projects. *Chicago Chapter of the American Meteorological Society*. (1996)
- Overview of the Lake-ICE project. *GEWEX/GCIP/LSA-NC Detailed Design Workshop*. (1995)

Conference Activities

Conference Presentations and Preprint Articles

- Dr. Kristovich has authored or co-authored more than 50 preprint articles presented at scientific conferences and meetings. Conferences include *American Meteorological Society*, *American Geophysical Union*, and *International Conferences on Clouds and Precipitation*, *Mesoscale Processes, Boundary Layers and Turbulence*, *Coastal Atmospheric and Oceanic Prediction*, *Air-Sea Interactions*, *Weather Analysis and Forecasting*, *Radar Meteorology*, *Hurricanes and Tropical Meteorology*, *Applied Climatology*, *Great Lakes Research*, and *Global Change*.

Conference Program Committees

- Program Committee Member, *American Meteorological Society Conference on Radar Meteorology, Chicago*. (2011)
- Program Committee Member, *American Meteorological Society Conference on Boundary Layers and Turbulence*, Stockholm. (2008)

Conference Session Chair Activities

- Observed Seasonal to Interannual Variability, *22nd Conference on Climate Variability and Change*, American Meteorological Society. (2010)
- Tropical Cyclones, *34th Conference on Radar Meteorology*, American Meteorol. Society. (2009)
- Boundary Layer Clouds, *18th Symposium on Boundary Layers and Turbulence*, American Meteorological Society. (2008)
- Marine Boundary Layers, *18th Symposium on Boundary Layers and Turbulence*, American Meteorological Society. (2008)
- Session Co-organizer and Co-Chair, *Regional Lake-Atmosphere Interactions: Past, Present, and Future*. 50th Annual Meeting of the International Association for Great Lakes Research. (2007)
- Cloudy Boundary Layers, *Symp. on Boundary Layers and Turbulence*, Amer. Meteor. Soc. (2006)

Memberships in Professional Organizations

- American Meteorological Society (National, Central Illinois, and Chicago Chapters)
- American Geophysical Union
- National Weather Association

Educational Activities

Graduate Student Advising

Student Name	Degree	Departmental Affiliation	My role	Status
Paul Gesicki	M.S.	Atmos. Sci., Univ. Illinois	Advisor	In progress
Luke Bard	M.S.	Atmos. Sci., Univ. Illinois	Advisor	In progress

Jason Keeler	M.S.	Atmos. Sci., Univ. Illinois	Advisor	Complete Aug 2010
Thomas Workoff	M.S.	Atmos. Sci., Univ. Illinois	Advisor	Complete May 2010
Faye Barthold	M.S.	Atmos. Sci., Univ. Illinois	Advisor	Complete Dec 2008
Paul Henne	Ph.D.	Ecology & Evol. Biol., U Illinois	Advisory Comm.	Complete Dec 2006
Yarice Rodriguez	M.S.	Dept. Geography, Univ. Illinois	Co-Advisor	Complete Dec 2005
Steven Jackman	M.S.	Atmos. Sci., Univ. Illinois	Co-Advisor	Complete Sep 2005
Matheiu Gerbush	M.S.	Atmos. Sci., Univ. Illinois	Advisor	Complete May 2005
Nancy Westcott	Ph.D.	Geography, Univ. Illinois	Advisory Comm.	Complete May 2005
Mei Han	Ph.D.	Atmos. Sci., Univ. Illinois	Advisory Comm.	Complete Dec 2004
Natasha Miles	Ph.D.	Meteorology, Penn. State. U.	Advisory Comm.	Complete Dec 2002
Joshua Schroeder	M.S.	Atmos. Sci., Univ. Illinois	Advisor	Complete 2002
Neil F. Laird	Ph.D.	Atmos. Sci., Univ. Illinois	Co-Advisor	Complete Jul 2001
Bruce Rose	Ph.D.	Atmos. Sci., Univ. Illinois	Co-Advisor	Complete Dec 2000
Greg Mann	Ph.D.	AOSS, Univ. Mich.	Advisory Comm.	Complete 1999
Ronald Steve	M.S.	Atmos. Sci., Univ. Illinois	Advisor	Complete Apr 1996

Teaching Activities

- Courses Taught
 - *Mesoscale Processes* (ATMS 314), Department of Atmospheric Sciences, University of Illinois in Urbana-Champaign. (2009)
 - *Boundary Layer Meteorology* (ATMS 405), Department of Atmospheric Sciences, University of Illinois in Urbana-Champaign. (2009)
 - *Weather and Climate* (GEOG 102), Department of Geography, University of Illinois in Urbana-Champaign (1998)
 - Funding for Development and Teaching, *Discovery Course*, Isard and Kristovich, Dept. of Geog., College of Liberal Arts & Sci., Univ. of Illinois in Urbana-Champaign. (1999-2000)
 - *Physics of Weather (lecture and lab)* (PHYS 111), Department of Physics, University of Illinois in Chicago (1992)
- *Invited lectures* in graduate-level courses, including Radar Meteorology, Mesoscale Meteorology, Professional Development and Boundary Layer Meteorology (Department of Atmospheric Sciences, University of Illinois in Urbana-Champaign), and Cloud Dynamics (Department of Meteorology, Pennsylvania State University).
- Numerous presentations on weather at local schools grades K-8.
- Consultant, *New Webster's Children's Visual Dictionary*, Publications International, Inc. (1995)