

GLEN SCOTT ROMINE

P.O. Box 3000 | Boulder, CO 80307-3000 | romine@ucar.edu | phone: 1-303-497-8997 | fax: 1-303-497-8181

EDUCATION

Ph.D., Atmospheric Science, University of Illinois Urbana-Champaign, May 2008
Thesis: *Improving storm-scale analyses of convection via assimilation of polarimetric radar observations*
Research Advisor: Robert Wilhelmson

M.S., Atmospheric Science, University of Illinois Urbana-Champaign, May 2002
Thesis: *A high-resolution numerical simulation of Hurricane Opal (1995)*
Research Advisor: Robert Wilhelmson

B.S., Meteorology, with distinction, University of Oklahoma, May 1999

PROFESSIONAL EXPERIENCE

National Center for Atmospheric Research, Boulder, Colorado
Project Scientist III, 2017-present
Project Scientist II, 2013-2017
Project Scientist I, 2009-2013

University of Illinois at Urbana-Champaign, Urbana, IL
Postdoctoral Research Associate, 2008-2009
Research Associate, 1999-2008

Oklahoma Climate Survey
Mesonet Operations, 1996-1999

United States Navy
Electrician, 1988-1996

EXPERTISE

Glen Romine's research is focused on the prediction and predictability of high-impact convective weather, including ensemble data assimilation, observation impact, verification, diagnosis of model bias, and regional ensemble analysis and forecast system design.

PROFESSIONAL COMMUNITY SERVICE

Editorships and review service

- Editor, Monthly Weather Review, 2019-present
- Associate Editor, Monthly Weather Review, 2012-2020
- Associate Editor, Weather and Forecasting, 2016-present
- Reviewer: Atmospheric Research, Journal of Atmospheric Science, Journal of Applied Meteorology and Climatology, Journal of Geophysical Research – Atmospheres, Quarterly Journal for the Royal Meteorological Society
- Proposal reviews: National Science Foundation, NOAA Office of Atmospheric Research, German Research Foundation (DFG), Austrian Science Fund, panel reviewer for NASA (2015, 2016)

Field projects and modeling activities

- VORTEX-Southeast, 2016-17: PI, retrospective studies of high impact HSLC events

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- NOAA Hazardous Weather Testbed, 2015-19: ensemble forecast guidance, participant
- STEP Hydromet experiment, 2016-19: contributed forecast products
- PECAN, 2015: contributed custom forecast products for CI applications
- MPEX, 2013: co-PI, Co-science operations director, modeling coordinator
- DC3, 2011-2012: Assisted real-time forecasting effort
- VORTEX2, 2009-2010: PI, Co-coordinator of mobile disdrometer deployments
- BAMEX, 2003: Co-coordinator for ground crew operations
- VORTEX-99, 1999: Mobile Mesonet driver

American Meteorological Society

- STAC committee on Severe Local Storms: Member, 2012-2018; Chair 2015-2018
- 26th Conference on Severe Local Storms: Member, conference committee
- 25th Conference on Severe Local Storms: Member, conference committee
- Program Chair, AMS Severe Local Storms Special Symposium on Observations, 2017

External committees and working groups

- 8th EnKF Workshop organizing committee, 2018
- NOAA ensemble design workshop committee, 2016
- NOAA convection-allowing model Strategic Implementation Plan committee, 2017-present; now known as the CAM application team
- NOAA VORTEX-SE working group on numerical weather prediction and observations
- DOE LASSO deep convection advisory panel member 2019

Community models

Support users of the DART toolkit, especially those who pair DART with the WRF model

NCAR service and mentoring

- PhD committee service: Purdue, Texas Tech, Penn State University
- SOARS program science mentor, 2012-2014, 2018
- MMM computing advisory committee, member 2013-present
- ASP graduate student visitor program, host, 2011-2013, 2016, 2019
- MMM graduate student visitor program, host, 2014, 2017, 2018, 2020
- CISL graduate student visitor program, host, 2017
- Early Career Scientist Assembly, division representative, 2010-2012
- NWSC-3 supercomputing resources advisory panel member, 2019-present
- MARVELS program member, 2019-present
- LOTOS observing facility advisory panel member, 2019
- NCAR journalism summit, invited presenter, 2019
- NCAR ASP colloquium, lead organizer, 2019
- EOL data assimilation postdoc advisor, 2019-present

Visualization and computing

- Cort, J. and T. Lucas, *Hunt for the Supertwister*. NOVA, T. Lucas Prod., G. Galusha Narr., WGBH Educational Foundation, Boston, MA., science and visualization consultant, 2004
- Science Storms – Tornado exhibit, Chicago Museum of Science and Industry, exhibit consultant, 2009-2010

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- Earthcube - Ensembles and data assimilation, realtime observations, participant 2012-2013
- WRF/DART tutorial, co-coordinator, Jan. 2014, NCAR, Boulder, CO.
- WRF/DART tutorial, Frontiers in Ensemble Data Assimilation for Geoscience Applications, Aug. 2015, NCAR, Boulder, CO.
- Ensemble design tutorial, lead tutorial organizer, WRF User's Workshop, July 1 2016, Boulder, CO

FUNDED GRANTS AND PROPOSALS

T. Weckwerth (PI), **G. Romine (Co-PI)**, D. Turner (Co-PI), "Lower-tropospheric thermodynamic and wind profiling impact study", NOAA, 2019-2021

G. Romine (PI), D. Dowell (Co-PI), M. Wong, (Co-PI), C. Schwartz (Co-PI), T. Jensen (Co-PI), C. Alexander (Co-PI), "Enhanced tools for high-resolution ensemble development and verification", NOAA, 2019-2021

G. Romine (PI), L. Bosart (Co-PI), J. Demuth (Co-PI), R. Sobash (Co-PI), M. Weisman (Co-PI), "PREEVENTS Track 2: Collaborative Research: Multi-scale processes impacting the predictability of severe convective weather events", NSF, 2019-2023

G. Romine (PI), M. Weisman (Co-I), C. Schwartz (Co-I), R. Sobash (Co-I), K. Manning (Co-I), "Convective-scale ensemble analysis and high-impact weather prediction". NCAR STEP, 2018-2021

J. Demuth (PI), and **Others (Romine role co-PI)**, "Improving Convection-Permitting Ensemble Based Uncertainty Communication for Decision Support using the Weather Archive and Visualization Environment (WAVE)", NOAA, 2018-2020

G. Romine (PI), D. Dowell (Co-PI), C. Schwartz (Co-PI), R. Sobash (Co-PI), C. Alexander (Co-PI), S. Benjamin (Co-PI), "Forecast system development activities toward a convective-scale HRRR ensemble", NOAA, 2017-2020

G. Romine (PI), M. Coniglio (Co-PI), G. Bryan (Co-PI), R. Sobash (Co-PI), "Understanding PBL Evolution and Surface-Driven Circulations with Simulations and VORTEX-SE Observations", NOAA, 2017-2020

G. Romine (PI), D. Dowell (Co-PI), C. Schwartz (Co-PI), R. Sobash (Co-PI), C. Alexander (Co-PI), S. Benjamin (Co-PI), "Demonstration of a Rapid Update Convection-Permitting Ensemble Forecast System to Improve Hazardous Weather Prediction", NOAA, 2017-2020

G. Romine (PI), D. Dowell (Co-PI), C. Schwartz (Co-PI), R. Sobash (Co-PI), C. Alexander (Co-PI), S. Benjamin (Co-PI), "Demonstration of a Rapid Update Convection-Permitting Ensemble Forecast System to Improve Flash Flood and Winter Weather Prediction", NOAA, 2017-2020

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G. Romine (PI), R. Sobash (Co-PI), Tom Auligne (Co-I), “Assimilation of next-generation satellite-based products to improve severe weather forecasts”, NASA ROSES, 2015-2019

G. Romine (PI), M. Coniglio (Co-PI), C. Schwartz (Co-PI), R. Sobash (Co-PI), “Resolution Dependence of Simulated Convective Storms in the Southeast United States”, NOAA, 2015-2018

G. Romine (PI), M. Coniglio (Co-PI), C. Schwartz (Co-PI), R. Sobash (Co-PI), “Convection-permitting ensemble forecast system for prediction of extreme weather”, NOAA, 2015-2018

Weisman, M. (PI), J. Trapp (Co-PI), C. Davis (Co-PI), **G. Romine (Co-PI)**, “The Mesoscale Predictability Experiment (MPEX)”, NSF Lower Atmospheric Observing Facilities, 2013

Sun, J. (PI), **G. Romine (Co-PI)**, C. Snyder (Co-PI), M. Xu (Co-PI), “High-resolution data assimilation to improve short-term convective forecasting”, NCAR STEP, 2012-2018

Weisman, M. (PI), J. Klemp (Co-PI), J. Dudhia (Co-PI), K. Manning (Co-PI), **G. Romine (Co-PI)**, C. Schwartz (Co-PI), “Dynamics and predictability of high impact weather systems”, NCAR STEP, 2012-2018

Romine, G. (Project Lead), “New frontiers in applying NCAR's WRF-DART ensemble data assimilation to probabilistic forecasts of severe convective weather”, NCAR Strategic Capability computing, 2012-present

Wilhemson, R. (PI), M. Gilmore, (Co-I), L. Orf (Co-I), L. Wicker (Co-I), G. Bryan (Co-I), B. Skamarock (Co-I), **G. Romine (Co-I)**, B. Jewett (Co-I), J. Michalakes (Co-I), “Understanding tornadoes and their parent supercells through ultra-high resolution simulation/analysis”, NSF PRAC, 2010-2013

Sun, J., D. Dowell (co-PI), H. Huang (co-PI), Y. Liu, **G. Romine (Co-PI)**, C. Snyder (co-PI), M. Xu (Co-PI), “Storm-scale data assimilation for the improvement of 0-12 hr QPF of high-impact weather”, NCAR STEP, 2010-2012

Wilhelmson, R. (PI), B. Jewett (Co-PI), M. Gilmore (Co-PI), **G. Romine (former Co-PI)**, “Collaborative Research: Investigating Supercell/Tornado Genesis, Structure and Evolution Using Observations and Numerical Models”, NSF, 2009-2013 [withdrew in 2009 after accepting position at NCAR]

Romine, G. (PI), T. Schuur (Co-PI), “Collaborative Research: SGER-Measurements of Particle Size and Fall Velocity Distributions within Supercell Thunderstorms”, NSF, 2009-2010

HONORS AND AWARDS

- MMM special recognition award for leading the 2019 ASP colloquium

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- AMS editor's award for Monthly Weather Review and Weather and Forecasting journals for 2020
- Invited editorship with Monthly Weather Review, term beginning Fall 2019
- MMM outstanding performance award, for NCAR ensemble project, Dec. 2018
- Nominated for UCAR Outstanding Accomplishment Award for Scientific/Technical Advancement for the NCAR ensemble project, 2017
- MMM outstanding performance award, for real-time analysis and modeling effort supporting the MPEX field campaign, Jan. 2014
- UCAR Outstanding Accomplishment Award for Scientific/Technical Advancement presented to the DART team, 2012
- Inaugural Ogura Student Research Award, University of Illinois, Department of Atmospheric Science, 2006

PEER REVIEWED PUBLICATIONS

34. Sobash, R. A., **G. S. Romine**, C. S. Schwartz, 2020: A comparison of neural-network and surrogate-severe probabilistic convective hazard guidance derived from a convection-allowing model. *Wea. Forecasting*, submitted.
33. Schwartz, C. S., M. Wong, **G. S. Romine**, R. A. Sobash, K. Fossell, 2020: Initial conditions for convection-allowing ensembles over the conterminous United States. *Mon. Wea. Rev.*, in press.
32. Wong, M, **G. S. Romine**, C. Snyder, 2020: Model improvement via systematic investigation of physics tendencies. *Mon. Wea. Rev.*, **148**, 671-688.
31. Trier, S., **G. S. Romine**, D. Ahijevych, R. Sobash, 2019: Lower-tropospheric influences on the timing and intensity of afternoon severe convection over modest terrain in a convection-allowing ensemble. *Wea. Forecasting*, **34**, 1633-1656.
30. Potvin, C., and **coAuthors**, 2019: Systematic comparison of convection-allowing models during the 2017 NOAA HWT Spring Forecasting Experiment. *Wea. Forecasting*, **34**, 1395-1416.
29. Sobash, R. A., C. S. Schwartz, **G. S. Romine**, M. L. Weisman, 2019: Next-day prediction of tornadoes using convection-allowing models with 1-km horizontal grid spacing. *Wea. Forecasting*, **34**, 1117-1135.
28. Schwartz, C. S., **G. S. Romine**, R. A. Sobash, K. R. Fossell, M. L. Weisman, 2019. NCAR's real-time convection-allowing ensemble project. *Bull. Amer. Meteor. Soc.*, **100**, 321-343.
27. Coniglio, M. C., **G. S. Romine**, D. D. Turner, R. D. Torn, 2019. Impacts of targeted AERI and Doppler lidar wind retrievals on short-term forecasts of the initiation and early evolution of thunderstorms. *Mon. Wea. Rev.*, **147**, 1149-1170.
26. Rotunno, R., **G. S. Romine**, H. B. Bluestein, 2018: A simple model for the anomalous counterclockwise turning of the surface wind with time over the Great Plains of the United States. *J. Atmos. Sci.*, **75**, 2971-2981.

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25. Bluestein, H. B., **G. S. Romine**, R. Rotunno, D. Reif, C. Weiss, 2018: On the anomalous counterclockwise turning of the surface wind with time in the plains of the United States. *Mon. Wea. Rev.*, **146**, 467-484.
24. Clark, A. J., and **coAuthors**, 2018: The Community Leveraged Unified Ensemble (CLUE) in the 2016 NOAA/Hazardous Weather Testbed Spring Forecasting Experiment. *Bull. Amer. Meteor. Soc.*, **99**, 1433-1448.
23. Keclik, A., C. Evans, P. Roebber, **G. S. Romine**, 2018: The Influence of Assimilated Upstream, Pre-Convective Dropsonde Observations on Ensemble Forecasts of Convection Initiation During the Mesoscale Predictability Experiment. *Mon. Wea. Rev.*, **145**, 4747-4770.
22. Schwartz, C. S., **G. S. Romine**, K. R. Fossell, R. A. Sobash, and M. L. Weisman, 2017: Toward 1-km ensemble forecasts over large domains. *Mon. Wea. Rev.*, **145**, 2943-2969.
21. Berman, J. D., R. D. Torn, **G. S. Romine**, M. L. Weisman, 2017: Sensitivity of Northern Great Plains Convection Forecasts to Upstream and Downstream Forecast Errors. *Mon. Wea. Rev.*, **145**, 2141-2163.
20. Torn, R. D., **G. S. Romine**, T. Galarneau, 2017: Sensitivity of dryline convection forecasts to upstream forecast errors for two weakly forced MPEX cases. *Mon. Wea. Rev.*, **145**, 1831-1852.
19. Dawson, L. C., **G. S. Romine**, R. J. Trapp, M. E. Baldwin, 2017: Verifying supercellular rotation in a convection-permitting ensemble forecast system with radar-derived rotation track data. *Wea. Forecasting*, **32**, 781-795.
18. Powers, J. G., and **CoAuthors**, 2017: The Weather Research and Forecasting (WRF) Model: Overview, System Efforts, and Future Directions. *Bull. Amer. Meteor. Soc.*, **98**, 1717-1737.
17. Sobash, R. A., **G. S. Romine**, C. S. Schwartz, D. J. Gagne II, M. L. Weisman, 2016: Explicit forecasts of low-level rotation from convection-allowing models for next-day tornado prediction. *Wea. Forecasting*, **31**, 1591-1614.
16. **Romine G. S.**, C. S. Schwartz, R. D. Torn, M. L. Weisman, 2016: Impact of assimilating dropsonde observations from MPEX on ensemble forecasts of severe weather events. *Mon. Wea. Rev.*, **144**, 3799-3823.
15. Jewtoukoff, V., R. Plougonven, A. Hertzog, C. Snyder, **G. S. Romine**, 2016: On the Prediction of stratospheric balloon trajectories: Improving winds with mesoscale simulations. *J. Atmos. Oceanic Technol.*, **33**, 1629-1647.
14. Sobash, R. A., C. S. Schwartz, **G. S. Romine**, K. R. Fossell, M. L. Weisman, 2016: Severe weather prediction using storm surrogates from an ensemble forecasting system. *Wea. Forecasting*, **31**, 255-271.

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13. Schwartz, C. S., **G. S. Romine**, R. A. Sobash, K. R. Fossell, M. L. Weisman, 2015: NCAR's Experimental Real-Time Convection-Allowing Ensemble Prediction System. *Wea. Forecasting*, **30**, 1645-1654.
12. Trier, S. B., **G. S. Romine**, D. A. Ahijevych, R. J. Trapp, R. S. Schumacher, M. C. Coniglio, D. J. Stensrud, 2015: Mesoscale thermodynamic influences on convective initiation near a surface dryline in a convection-permitting ensemble. *Mon. Wea. Rev.*, **143**, 3726-3753.
11. Torn, R. D., **G. S. Romine**, 2015: Sensitivity of central Oklahoma convection forecasts to upstream vorticity anomalies during two strongly-forced cases MPEX. *Mon Wea. Rev.*, **143**, 4064-4087.
10. Schwartz, C. S., **G. S. Romine**, M. L. Weisman, R. A. Sobash, K. R. Fossell, K. W. Manning, and S. B. Trier, 2015: A real-time convection-allowing ensemble prediction system initialized by mesoscale ensemble Kalman filter analyses. *Wea. Forecasting*, **30**, 1158-1181.
9. Lei, L., J. L. Anderson, **G. S. Romine**, 2015: Empirical localization functions for ensemble Kalman filter data assimilation in regions with and without precipitation. *Mon. Wea. Rev.*, **143**, 3664-3679.
8. Weisman, M. L., and **CoAuthors**, 2015: The Mesoscale Predictability Experiment (MPEX). *Bull. Amer. Meteor. Soc.*, **96**, 2127-2149.
7. **Romine, G. S.**, C. S. Schwartz, J. Berner, K. R. Fossell, C. S. Snyder, J. L. Anderson, and M. L. Weisman, 2014: Representing forecast error in a convection-permitting ensemble system. *Mon. Wea. Rev.*, **142**, 4519-4541.
6. Schwartz, C., **G. S. Romine**, K. Smith, and M. Weisman, 2014: Characterizing and optimizing precipitation forecasts from a convection-permitting ensemble initialized by a mesoscale ensemble Kalman filter. *Wea. Forecasting*, **29**, 1295-1318.
5. Marquis, J., and **CoAuthors**, 2014: An investigation of the Goshen County, Wyoming, tornadic supercell of 5 June 2009 using EnKF assimilation of mobile radar data collected during VORTEX2. Part I: Experiment design and verification of the EnKF analyses. *Mon. Wea. Rev.*, **142**, 530-554.
4. **Romine, G. S.**, C. Schwartz, C. Snyder, J. Anderson and M. Weisman, 2013: Model bias in a continuously cycled assimilation system and its influence on convection-permitting forecasts. *Mon. Wea. Rev.*, **141**, 1263-1284.
3. **Romine, G. S.**, D. W. Burgess, and R. B. Wilhelmson, 2008: A dual-polarization radar based assessment of the 8 May 2003 Oklahoma City area tornadic supercell. *Mon. Wea. Rev.*, **136**, p. 2849-2870.
2. **Romine, G. S.**, R. B. Wilhelmson, 2006: Fine-scale spiral band features within a numerical simulation of Hurricane Opal (1995). *Mon. Wea. Rev.*, **134**, p. 1121-1139.

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1. Grice, G. K., and **CoAuthors**, 1999: The Golden Anniversary Celebration of the First Tornado Forecast. *Bull. Amer. Meteor. Soc.*, **80**, 1341–1348.

DISSERTATIONS AND THESES:

Romine, G. S., 2008: Improving storm-scale analyses of convection via assimilation of polarimetric radar observations. Ph.D. dissertation, University of Illinois Urbana-Champaign, 250 pp. [Available from University Library, 1408 West Gregory Drive, Urbana, IL, 61801]

Romine, G. S., 2002: A high resolution numerical simulation of Hurricane Opal (1995). Master's thesis, University of Illinois Urbana-Champaign, 132 pp. [Available from University Library, 1408 West Gregory Drive, Urbana, IL, 61801]

RECENT PRESENTATIONS (past 5 yrs)

“Convection-permitting ensemble design strategies in a UFS-style framework.” NOAA/EMC. College Park, MD, March 2020. [invited]

“Formal approaches to regional ensemble prediction system development.” NOAA/WPC winter weather experiment. College Park, MD, Mar. 2020. [invited]

“Progress in building formal approaches for regional ensemble prediction system development.” 10th Conf. on transition of research to operations. Boston, MA, Jan. 2020.

“Construction of ensemble forecasts for the convective scale.” 5th meeting of the WWRP PDEF working group. Boulder, CO, Sept. 2019. [invited]

“Convection-permitting ensemble prediction.” 2019 ASP colloquium, Boulder, CO, July 2019. [convener]

“NCAR's real-time and retrospective analysis and prediction activities.” NOAA/WPC, College Park, MD, June 2019.

“Modeling 101.” NCAR Journalism Summit. Boulder, CO, May 2019. [invited]

“Ensemble systems and high-impact weather prediction applications.” Workshop on predictability and uncertainty in models and retrievals, NWC, Norman, OK, October, 2018 [invited]

“Development and Testing of Single-Model Convection-Allowing Ensemble Forecast Systems.” NOAA/EMC, College Park, MD, July 2018.

“Assessment of Covariance Inflation Options for a Continuously-Cycled Mesoscale EnKF Analysis System.” 25th Conf. on Numerical Weather Prediction, Denver, CO, June 2018.

“A Comparison of the Impact of Using Downscaled and Convection-Permitting Analyses on Model Behavior.” 25th Conf. on Numerical Weather Prediction, Denver, CO, June 2018.

“Diagnostic methods to investigate systematic model error” (March 8, 2018; NOAA Meso and Convective scale DA meeting) [invited]

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“The NCAR ensemble project: Lessons learned and current progress in convection-permitting ensemble design” (Dec. 5, 2017; NCEP production suite review) [invited]

“Understanding PBL evolution and surface driven circulations with simulations and VORTEX-SE observations” (Nov. 16, 2017; 2017 VORTEX-SE Workshop)

“Ensemble forecast system design for high-impact weather prediction applications” (Sep. 12, 2017; International Computation in Atmospheric Science conference) [invited]

“Opportunities to advance DA for severe weather prediction applications” (Jun. 29, 2017; NCAR DA meeting)

“Resolution dependence of simulated convective storms in the Southeast United States”, November 2016, Portland, OR.

“CAM model errors and analysis spread challenges”. 2nd Ensemble Design Workshop for Convection Allowing Models, August 2016, College Park, MD.

“NCAR CAM ensemble results from spring 2016”. 2nd Ensemble Design Workshop for Convection Allowing Models, August 2016, College Park, MD.

“WRF/DART-based DA and ensemble forecasting”. KMA visitors, July 2016, Boulder, CO.

“Review of storm-scale ensemble research”. 7th NOAA/DTC ensemble workshop, June 2016, College Park, MD. [Invited]

“Ensemble prediction with the WRF model”. WRF Users Workshop, June 2016, Boulder, CO.

“NCAR’s real-time high-resolution ensemble prediction system”. CISL work in progress, Feb. 2016, Boulder, CO.

“Ensemble predictability of convective weather hazards”. Special symposium on seamless weather and climate prediction. Jan. 14, 2016, New Orleans, LA.

REFERENCES

Available upon request

COLLABORATORS FROM PAST 5 YEARS

Dave Ahijevych, Curtis Alexander, Jeff Anderson, Tom Auligne, Mary Barth, Stan Benjamin, Jeremy Berman, Judith Berner, Howie Bluestein, Lance Bosart, John Brown, George Bryan, Greg Carbin, Jacob Carley, Adam Clark, Ariel Cohen, Mike Coniglio, Logan Dawson, Chris Davis, Weibke Deierling, Julie Demuth, David Dowell, Jimmy Dudhia, Zhe Feng, Kate Fossell, David Gagne, Bart Geerts, Val Jewtoukoff, Israel Jirak, Karen Kosiba, Gary Lackmann, Lili Lei, Kevin Manning, Ted Mansell, James Marquis, John Michalakes, Sarah Perfater, Jordan Powers, Dylan Reif, Richard Rotunno, David Schultz, Craig Schwartz, Bill Skamarock, Chris Snyder, Ryan Sobash, Dave Stensrud, Jenny Sun, Ryan Torn, Stan Trier, David Turner, Wei Wang, Xuguang Wang, Tammy Weckwerth, Morris Weisman, Chris Weiss, May Wong

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Research Advisor – Robert Wilhelmson, Professor Emeritus, University of Illinois

Advisees for doctorate committees: Logan Dawson, Purdue University; Brock Burghardt, Texas Tech University; Alicia Klees, Penn State University

Other informal advisees: Aaron Hill, Texas Tech University; Manda Chasteen, University of Oklahoma; Therese (Terra) Ladwig, University of Oklahoma