CURRICULUM VITAE OF JUSTIN T. SCHOOF

Updated August 2025

I. PROFESSIONAL AFFILIATION AND CONTACT INFORMATION

Director, School of Earth Systems and Sustainability
Professor, Geography and Environmental Resources
Southern Illinois University
Carbondale, IL 62901
E-mail: jschoof@siu.edu

Geography office:
Faner Hall 4524
Telephone: (618) 453-6019

Geology office:
Parkinson Lab 102B
Telephone: (618) 453-7363

II. EDUCATION

Ph.D.	Indiana University, Bloomington, IN, USA, 2004 Atmospheric Science Program, Department of Geography Dissertation title: *Generation of regional climate change scenarios using general circulation models and empirical downscaling*
M.Sc.	Indiana University, Bloomington, IN, USA, 1999 Atmospheric Science Program, Department of Geography Thesis title: *Synoptic circulation classification and downscaling for the Midwestern United States*
B.A.	Indiana University, Bloomington, IN, USA, 1997 Geography/Mathematics (double major)

III. PROFESSIONAL EXPERIENCE

2015-	Professor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
2019-25	Director, School of Earth Systems and Sustainability, Southern Illinois University, Carbondale, IL, USA
2016	Interim Director, Environmental Resources and Policy Program, Southern Illinois University, Carbondale, IL, USA
2012-19	Chair, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
2011-15	Associate Professor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
2006-11	Assistant Professor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
2005	Postdoctoral Research Associate, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, USA
2004-05	Postdoctoral Fellow, Department of Geography, Indiana University, Bloomington, Indiana, USA

2003-04 Research Assistant, Department of Geography, Indiana University, Bloomington, Indiana, USA
2003 Instructor (2002-2003 Spring Semester), Department of Geography, Indiana University, Bloomington, Indiana, USA
2000-02 Research Assistant, Department of Geography, Indiana University, Bloomington, Indiana, USA
2002 Instructor (2002-2003 Fall Semester), Department of Geography, Indiana University – Purdue University at Indianapolis, Indianapolis, Indiana, USA
1999 Associate Instructor (1999-2000 Fall Semester), Department of Geography, Indiana University, Bloomington, Indiana, USA
1997-99 Research Assistant, Department of Geography, Indiana University, Bloomington, Indiana, USA

IV. RESEARCH AND CREATIVE ACTIVITY

A. INTERESTS

- Scale interactions in the climate system
- Climate extremes
- Synoptic climatology
- Statistical climatology
- Applied climatology

B. CURRENT FUNDED PROJECTS (see IV D)

C. GRANTS APPLIED FOR (pending review or not awarded) (PI or co-PI)

2019 CNH2-L: Groundwater sustainability and decision making in a changing climate: Coupled hydrologic and socioeconomic dynamics in irrigated agricultural landscapes (NSF), co-PI. Not funded.

2019 NRT-HDR: Building the Big Data workforce to understand the changing global environment (NSF), co-PI. Not funded.

2018 Social media footprints of public perception on energy issues and their policy implications (NSF), senior personnel. Not funded.

2018 CNH-S: Groundwater sustainability in a changing climate: Coupled socioeconomics and hydrologic dynamics in the Northern High Plains (NSF), co-PI. Not funded.

2017 High spatial resolution mapping of suitability for specific crops in the United States under climate change (USDA), co-PI. Not funded.

2017 Collaborative Research: Remote and local forcing of oppressive heat and consequent human health impacts in the central United States (NSF). co-PI. Not funded.

2016 High spatial resolution mapping of suitability for specific crops in the United States under climate change (NSF). Funded participant. Not funded.

2013 Reconnecting floodplains for multiple benefits in a non-stationary world (NSF). co-PI. Not funded.

2012 Collaborative Research: Physical drivers of equivalent temperature and human heat stress (NSF). PI. Not funded.

2012 Historical and projected impacts of climate change on West Nile Virus in the United States (NIH). PI. Not funded.

2012 Windmill-driven autothermal aerobic treatment for pathogens (Bill and Melinda Gates Foundation), co-PI. Not funded.

2011 *IGERT: Interdisciplinary, team-based graduate training and research in energy* systems for the future (NSF). co-PI. Not funded.

2009 Provisioning of ecosystem services from agricultural watersheds under climate change and policy scenarios (USDA CSREES). co-PI. Not funded.

2009 Health Consequences of Regional Heat Waves Under Climate Change, Centers for Disease Control and Prevention (CDC). co-PI. Not funded.

2008 Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale Natural-Human System. (NSF). co-PI. Not funded.

2008 Downscaled Near-Surface Temperature and Humidity Projections for the Eastern USA. (NSF). PI. Not funded.

2008 Modeling the Interactions Among 21st Century Climate, Land Use, and Water
Quantity and Quality in Representative U.S. Watersheds. (EPA). co-PI. Not funded.

2006 *Development of a Laboratory Exercise Manual for Instruction of Introductory*
Meteorology, Excellence through Commitment Undergraduate Teaching Enhancement Award, SOUTHERN ILLINOIS UNIVERSITY CARBONDALE. Not funded.

D. GRANTS RECEIVED

2023 Converging Earth Science and Sustainability Education and Experience to Prepare Next-Generation Geoscientists, National Science Foundation S-STEM program, co-PI, $1,333,328.

2018 River Region Master Teaching Fellowships in Environmental Sustainability, National Science Foundation Master Teaching Fellowships (MTF), non-PI personnel, $2,196,759.

2018 Building Big Data Research & Teaching Synergy at SIUC, Sigma Xi, Science, Math, and Engineering Education (SMEE) grant, co-PI, $2000.

2013 Collaborative Research: Physical Drivers of Equivalent Temperature Variability, National Science Foundation, Geography and Spatial Science, PI, $158,254.

2012 Assessing Climate Change Education on the SIUC Campus, SIU Carbondale Green Fund.

2010 Collaborative Research: Climate Change Impacts on Regional Wind Climates, National Science Foundation, Geography and Spatial Science, PI, $57,146.

2010 Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale Natural-Human System, National Science Foundation, Dynamics of Coupled Natural and Human Systems, co-PI, $1,430,000.

2009 Track 1: Southern Illinois Undergraduate Recruitment and Retention in Geoscience Education (SURRGE), National Science Foundation, Opportunities for Enhancing Diversity in the Geosciences, co-PI, $186,439.

2008 Development and Delivery of Thematically Integrated Courses in Meteorology and Climatology, Excellence Through Commitment

Undergraduate Teaching Enhancement Award, SIU Carbondale, 1 month salary.

2008 Emissions Pathways and Projections of Extreme Temperatures in the Midwestern USA, ORDA Seed Grant, SIU Carbondale, $8,598 + ½ month salary

2007 Collaborative Research: Development of 21st Century Precipitation Scenarios Using Probabilistic Downscaling Techniques, National Science Foundation, Geography and Regional Science, PI, $95,061.

2006 A Comparison of Dynamically and Statistically Downscaled GCM Ensemble Hindcasts for the Southeastern USA, subcontract from Florida State University, $24,000.

E. HONORS AND AWARDS

2020 Charles D. Tenney Distinguished Lecture, SIU Honors Program
2020 WSIU Mr. Rogers Neighborly Award
2019 Honorary Environmental Ambassador Award, SIU Sustainability Council
2012- Secretary, Sigma Xi, SIU Chapter
2012-16 Editor, Atmospheric Sciences, *Elsevier Reference Modules on Science Direct*.
2011 *John Russell Mather Paper of the Year Award, Climate Specialty Group, Association of American Geographers*, awarded for Schoof JT, Pryor SC, Surprenant J. 2010. Development of daily precipitation projections for the United States based on probabilistic downscaling. *Journal of Geophysical Research*, 115, D13106, doi:10.1029/2009JD013030.
2003-04 *Indiana University College of Arts and Sciences Dissertation Year Research Fellowship*. $13,500
2003 *Indiana University James H. Coon Science Prize.* Awarded to a student who shows promise in one of the sciences). $1,500
2003 *Indiana University Graduate Student Travel Support Grant*. Indiana University College of Arts and Sciences. Awarded to attend American Meteorological Society 2004 Annual Meeting, Seattle, WA, 11-15 January, 2004. $300
1999-02 *Indiana University Department of Geography Chairman's Graduate Student Recognition Award*. Awarded for outstanding academic performance.
2001 *Indiana University Department of Geography Departmental Graduate Fellowship Award*. Awarded for academic excellence. $1,500
2000 *Indiana University Esther L. Kinsley Master's Thesis Award*. Awarded for outstanding theses at Indiana University. $500
2000 *American Meteorological Society Global Change Travel Scholarship*. Awarded to attend the American Meteorological Society 81st Annual Meeting, Albuquerque, NM, 14-19 January, 2000. Approximately $500.

1999 *Indiana University Graduate Student Travel Support Grant*. Indiana University College of Arts and Sciences. Awarded to attend American Geophysical Union 1999 Spring Meeting, Boston, MA, 1-4 June, 1999. $200

1999 *Indiana University Department of Geography Steven S. Visher Award for Outstanding Paper in Climatology*. $500

F. PRESENTATIONS AND POSTERS AT PROFESSIONAL MEETINGS AND WORKSHOPS (presenter underlined)

81. Paxton A, Schoof JT. Precipitation trends in Illinois: A study of robust trend estimation for regional climate analysis. Annual Meeting of the American Meteorological Society, January 2021.

80. Duram LA, Schoof JT. Teaching sustainability and action: Geography of climate change. Illinois Innovation Network Research Conference on Sustainability, October, 2020

79. Schoof JT. Changes in mean and extreme precipitation across U.S. watersheds. Association of American Geographers Annual Meeting, Denver, CO, April 2020. (poster) (cancelled due to COVID-19 pandemic)

78. Duram LA, Schoof JT. Integration of physical and science in a team-taught climate change course. Association of American Geographers Annual Meeting, Denver, CO, April 2020. (poster) (cancelled due to COVID-19 pandemic)

77. Rijal S, Wang Q, Wang G, Schoof J. Comparison of global vs. geographically weighted regression models for predicting military disturbed land condition. Association of American Geographers Annual Meeting, Denver, CO, April 2020. (cancelled due to COVID-19 pandemic)

76. Li R, Crowe J, Leifer D, Schoof J. Public perceptions on energy: A comparison between household surveys and social media data mining. Association of American Geographers Annual Meeting, Washington, DC, April 2019.

75. Schoof JT. The United States “warming hole”: an update to 2016 and application to equivalent temperature. American Meteorological Society Annual Meeting, Austin, TX, January 2018.

74. Leonard J, Schoof JT, Ford T. Quantifying the spatial and temporal extent of the Eastern United States “warming hole”. American Meteorological Society Annual Meeting, Austin, TX, January 2018.

73. Schoof JT, Ford T, Pryor SC. Projected regional changes in the characteristics of dry and moist heat waves in the United States derived from downscaled

CMIP5 models. American Geophysical Union Fall Meeting, New Orleans, LA, December 2017.

72. Schoof JT, Leonard J. Is there a warming hole in eastern US equivalent temperature? American Meteorological Society 23rd Conference on Applied Climatology, Asheville, NC, June 2017.

71. Schoof JT, Ford T, Pryor SC. High resolution projections of 21st century eastern United States heat waves. Association of American Geographers Annual Meeting, Boston, MA, April 2017.

70. Schoof JT, Ford T, Pryor SC. Recent changes in United States heat waves derived from multiple reanalyses. American Geophysical Union Fall Meeting, San Francisco, CA, December 2016.

69. Gomez-Jacobo ML, Schoof JT, Ford T. Assessing equivalent temperature trends in the eastern United States. American Geophysical Union Fall Meeting, San Francisco, CA, December 2016.

68. Lant C, Stoebner T, Schoof J, Crabb B. The effect of climate change on rural land cover patterns in the central United States. Utah Geographic Information Council Conference. Bryce Canyon, UT, May 2016

67. Schoof JT, Ford T. Coupling between eastern United States warm season extreme temperatures and soil moisture in high resolution land surface data, Association of American Geographers Annual Meeting, San Francisco, CA, March 2016.

66. Ford T, Schoof JT. The role of soil moisture in the onset and persistence of equivalent temperature heat wave events. Association of American Geographers Annual Meeting, San Francisco, CA, March 2016.

65. Schoof JT. Historical changes in the moisture content of heat waves in the United States, American Meteorological Society, New Orleans, LA, January 2016.

64. Lukancic K, Schoof JT. Sensitivity of strong extratropical cyclones to large-scale climate variability in the United States, American Meteorological Society, New Orleans, LA, January 2016.

63. Schoof JT. A new perspective on United States heat waves. American Geophysical Union, Fall Meeting, San Francisco, CA, December 2015 (poster)

62. McLeran K, Schoof JT, Lefticariu L, Therrell M. Delta 18-0 and Delta 13-C analysis in tree rings of *Pterocarpus Angolensis* growing in Zimbabwe.

American Geophysical Union, Fall Meeting, San Francisco, CA, December 2015 (poster)

61. Bhattarai M, Sechhi S, Schoof J. An analysis of the climate change mitigation potential through soil organic carbon sequestration in a corn belt watershed. American Geophysical Union, Fall Meeting, San Francisco, CA, December 2015.

60. Schoof JT. High-resolution projections of daily near-surface air temperature and extremes for the contiguous United States. Association of American Geographers, Annual Meeting, Chicago, IL, April 2015. (poster)

59. Teshager A, Secchi S, Schoof J. Assessment of impacts of agricultural scenarios and climate change on water quantity and quality of a watershed in central US. Association of American Geographers, Annual Meeting, Chicago, IL, April 2015.

58. Bhattarai MD, Secchi S, Schoof J. Mitigation potential of climate change through soil organic carbon sequestration in a corn belt watershed Association of American Geographers, Annual Meeting, Chicago, IL, April 2015.

57. Bhattarai MD, Secchi S, Schoof J. Mitigation potential of climate change through soil organic carbon sequestration in a corn belt watershed. Seventh International Conference on Climate Change: Impacts and Responses, Vancouver, Canada, April, 2015.

56. Secchi S, Perez-Lapena B, Teshager AD, Bhattarai M, Schoof JT. Understanding the links between humans, climate change, water and carbon in a Corn Belt Watershed. American Geophysical Union, San Francisco, CA, December 2014, **invited**.

55. Schoof JT. High resolution projections of 21st century daily precipitation for the contiguous USA. American Geophysical Union, San Francisco, CA, December 2014.

54. Feng G., Wang G.X., Schoof, JT. Monitoring drought intensity in Illinois with a combined index. Association of American Geographers, Annual Meeting, Tampa, FL, April 2014.

53. Feng G., Wang G.X., Schoof, JT. Monitoring drought intensity in Illinois with a combined index. American Society for Photogrammetry and Remote Sensing, Annual Meeting, Louisville, KY, March 2014.

52. Schoof J.T., Heern Z.. Variability and trends in average and extreme near-surface equivalent temperature in the Eastern USA. American Meteorological Society, Annual Meeting, Atlanta, February 2014.

51. Schoof J.T., Pryor S.C., and Barthelmie R.J.. Observed and AOGCM simulated relationships between US winds and large scale modes of climate variability. American Geophysical Union, Fall Meeting, San Francisco, December 2013.

50. Schoof J.T. Multivariate downscaling of CMIP5 projections for the central United States: Overview of results and assessment of value added. Association of American Geographers Annual Meeting, Los Angeles, April 2013.

49. Teshager A., Secchi S., Misgna G., and Schoof J. Predicting climate change and policy influences on future agricultural landscapes of the American Heartland. Association of American Geographers Annual Meeting, Los Angeles, April 2013.

48. Pryor S.C., Barthelmie R.J. and J. Schoof. Changes in extreme and intense wind speeds over the contiguous USA. NCDC Workshop, Asheville, Jan 2012.

47. Pryor S.C., Barthelmie R.J. and J. Schoof. Wind climates in the NARCCAP model suite, American Geophysical Union, San Francisco, Dec 2011.

46. Miller G, Schoof JT, and Therrell M. Developing curriculum to help students explore the Geosciences' cultural relevance. American Geophysical Union, December 2011, San Francisco. (poster)

45. Schoof JT, Pryor SC, and Surprenant J. Development of daily precipitation projections for the United States based on probabilistic downscaling. Association of American Geographers, April 2011, Seattle, WA. Climate Specialty Group John Russell Mather Paper of the Year Award presentation.

44. Schoof JT and Chakraborty S. Understanding historical and projected changes in human heat stress in the United States. Association of American Geographers, April 2011, Seattle, WA. (poster)

43. Schoof JT. Stochastic weather generators: Applications, modeling approaches, and model evaluation. American Society of Agronomy, November 2010, Long Beach, CA, **invited**.

42. Schoof JT. Projections of human heat stress for the Midwestern USA. Workshop on Climate Change Impacts, Vulnerability, and Adaptability in the Midwest USA, Indiana University, October 2010.

41. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M, E. Kjellstrom. Will global climate change impact extreme and intense wind speeds? World Renewable Energy Congress XI, 25-30 September 2010, Abu Dhabi, UAE.

40. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M. Changes in extreme and intense wind speeds in Northern Europe. European Wind Energy Conference. Warsaw, Poland, 2010.

39. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Kjellstrom E, Drews M. Intense and extreme wind speeds over the Nordic countries. Future Climate and Renewable Energy – Impacts, Risks and Adaptation. Oslo, Norway, 2010.

38. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M. Quantifying possible changes in extreme and intense wind speeds. American Wind Energy Conference, Dallas, TX, 2010.

37. Ratnapradipa D, Schoof JT, Ruffing A. Environmental health impacts and lessons learned from a regional wind event. National Environmental Health Association 2010 Annual Educational Conference & Exhibition. Albuquerque, NM, June 2010.

36. Kaini P, Nicklow JW, Schoof JT. Impact of climate change projections and best management practices on river flows and sediment load. World Environment & Water Resources Congress 2010, Providence, RI, May 2010.

35. Ratnapradipa D, Schoof JT, Middleton W. Environmental health perspectives on climate change. 2009 National Environmental Public Health Conference, Atlanta, GA, October 2009.

34. Schoof JT, Pryor SC, Surprenant JL. Probabilistic downscaling of 21st century daily precipitation occurrence and intensity in the United States. American Geophysical Union Joint Assembly, Toronto, Ontario, Canada, May 2009.

33. Schoof JT. Contributions of temperature and humidity to trends in apparent temperature in the Midwestern USA. West Lakes Meeting of the Association of American Geographers, Bloomington, IN, November 2008.

32. Schoof JT, Pryor SC. On the proper order of Markov chain for precipitation occurrence, 88th Annual Meeting of the American Meteorological Society, New Orleans, LA, January 2008.

31. Schoof JT. Assessing the proper order of Markov chain for simulation of daily precipitation occurrence in the Midwestern USA. West Lakes Meeting of the Association of American Geographers, Champaign-Urbana, IL, November 2007.

30. Schoof JT. Robeson SM. Historical and projected changes in the length of the frost free season in the Midwestern United States, 30th Applied Geography Conference, Indianapolis, IN, October 2007.

29. Schoof JT. Statistically downscaled temperature projections for the Midwestern USA. Workshop on Climate Variability, Predictability & Change in the Midwest, Indiana University, October 2007.

28. Schoof JT. Teleconnections and circulation patterns in the Midwestern USA. Observations vs. GCMs. Workshop on Climate Variability, Predictability & Change in the Midwest, Indiana University, October, 2007.

27. Pryor SC, Barthelmie RJ, Schoof JT. Developing robust projections of wind energy resources under climate change, European Conference on Impacts of Climate Change on Renewable Energy Sources, Reykjavik, Iceland, June, 2006.

26. Schoof JT, Shin DW, LaRow T, Cocke S. Assessment of spatial and temporal skill associated with dynamically and statistically downscaled seasonal temperature forecasts in the Southeastern USA, American Geophysical Union 2006 Joint Assembly, Baltimore, May, 2006.

25. Pryor S, Barthelmie R, Schoof J. Projections of near-surface winds under climate change scenarios for use in the wind energy industry, European Geosciences Union, General Assembly 2006, Vienna, Austria, April, 2006.

24. Schoof JT, Arguez A, Brolley J, O'Brien JJ. A new weather generator based on spectral properties of surface air temperature. *American Meteorological Society 18th Conference on Probability and Statistics in the Atmospheric Sciences*, Atlanta, GA, February, 2006.

23. Bellow JG, Shin D-W, Schoof JT, Jones J, O'Brien JJ. Contribution of temperature, precipitation, and solar radiation from dynamically downscaled global climate model output to predicting peanut yields and phenology in the SE USA. American Society of Agronomy, Southern Branch Meeting, Orlando, February, 2006.

22. Pryor SC, Barthelmie RJ, Schoof JT, Kjellström E, Roeckner E. Developing wind climate projections. *Intergovernmental Panel on Climate Change Workshop,* Honolulu, March 2005.

21. Pryor SC, Barthelmie RJ, Schoof JT. How coherent is inter-annual variability of wind indices across Europe and what are the implications for large scale penetration by wind energy of electricity markets? *European Wind Energy Conference*, London, November 2004.

20. Pryor SC, Barthelmie RJ, Schoof JT. Wind energy prognoses for the Baltic region. *4th Study Conference on BALTEX (Baltic Sea Experiment)*. Gudhjem, Bornholm, Denmark, May 2004.

19. Pryor SC, Barthelmie RJ, Schoof JT. Historical and prognostic changes in 'a normal wind year': A case study from the Baltic. *European Wind Energy Association Special Topic Conference: The Science of Making Torque From Wind.* Delft University of Technology, The Netherlands, April, 2004.

18. Schoof JT, Pryor SC. An evaluation of two GCMs: North American teleconnections and synoptic phenomena. *15th AMS Symposium on Global Change and Climate Variations,* Seattle, WA, January, 2004.

17. Pryor SC, Schoof JT, Barthelmie RJ. Near-surface flow regimes: Recent changes and tools for prognoses. *15th AMS Symposium on Global Change and Climate Variations,*Seattle, WA, January, 2004 (poster).

16. Pryor SC, Barthelmie RJ, Schoof JT. Observed and predicted flow variability over the Baltic Region: Implications of climate change for wind energy viability. *AGU/EGS Joint Assembly*, Nice, France, April 2003.

15. Barthelmie RJ, Pryor SC, Schoof JT. Evidence of trends in near-surface wind speeds over the Baltic. *Offshore Wind Energy in the Mediterranean and other European Seas (OWEMES), 2003,* Sicily, April 2003.

14. Schoof JT, Robeson SM. Seasonal and spatial variability of serial and cross-correlation matrices used by stochastic weather generators. *American Meteorological Society 13th Conference on Applied Climatology*, Portland, OR, May 2002.

13. Pryor S, Barthelmie R, Carreiro M, Davis M, Hartley A, Jensen B, Oliphant A, Randolph J, Schoof J. Forest canopy uptake of atmospheric nitrogen at a Midwestern US mixed hardwood site and possible implications for carbon storage. *American Geophysical Union,* San Francisco, CA. December 2001.

12. Pryor SC, Barthemlie R, Carreiro M, Davis M, Hartley A, Jensen B, Oliphant A, Randolph J, Schoof J. Nitrogen deposition to a mid-Latitude deciduous forest and ecosystem response. *2nd International Nitrogen Conference*. Washington, D.C., October 2001

11. Schoof JT A comparison of two synoptic circulation classifications for the Midwestern United States. *Annual Meeting of the Association of American Geographers*, New York City, NY, March 2001.

10. Pryor SC, Barthelmie RJ, Davis ML, Schoof JT, Hirzy KC, Hartley A, Carreiro M, Jensen B. Nitrogen deposition to and cycling in a forest ecosystem. *Annual*

Meeting of the Association of American Geographers, New York City, NY, March 2001.

9. Pryor SC, Barthelmie RJ, Schoof J, Erickson D. Modeling heterogeneous chemistry on sea spray: implications for nitrogen deposition. *American Association for Aerosol Research Annual Conference*, St. Louis, MO, November 2000.

8. Pryor SC, Barthelmie RJ, Jensen B, Hirzy K, Schoof J, Davis M. An investigation of the role of particles in observations of the bidirectionality of ammonia fluxes. *American Association for Aerosol Research Annual Conference*, St. Louis, MO, November 2000 (poster).

7. Pryor SC, Barthelmie RJ, Schoof J, Erickson D. Modeling heterogeneous chemistry in sea salt droplets. *European Aerosol Conference*, Dublin, Ireland, September 2000. (invited)

6. Pryor SC, Barthelmie RJ, Schoof JT, Sorensen LL, Erickson III DJ. Implications of heterogeneous chemistry for nitrogen deposition to marine ecosystems: Observations and modeling, *Sixth International Conference on Air-Surface Exchange of Gases and Particles*, Edinburgh, UK, July 2000.

5. Schoof JT, Pryor SC. Synoptic circulation classification and downscaling for the Midwestern United States, *American Meteorological Society 15th Conference on Probability and Statistics in the Atmospheric Sciences*, Asheville, NC, May 2000.

4. Schoof JT, Pryor SC. Synoptic circulation classification and statistical downscaling for the midwestern United States, *American Geophysical Union Spring Meeting*, Boston, MA, June 1999 (poster).

3. Grimmond S, Zutter H, Potter S, Schoof J, Souch C. Evaluation and application of automated methods for measuring sky view factors in urban areas, *International Conference on Urban Climate*, 1999, Sydney Australia, November 1999. (poster).

2. Grimmond CSB, Robeson SM, Schoof J. Variability in below-canopy climatic conditions during the growing season within an eastern North American deciduous forest. *International Conference on Biometeorology (ICB)*, Sydney, Australia, November 1999.

1. Robeson SM, Grimmond CSB, Schoof J. Comparison of open-site and below-canopy climatic conditions within an eastern North American deciduous forest. *American Meteorological Society 23rd Conference on Agricultural and Forest Meteorology*, Albuquerque, NM, November 1998.

V. PUBLICATIONS AND CREATIVE WORKS

A. BOOKS

None at this time.

B. ARTICLES IN PROFESSIONAL JOURNALS

57. Paxton A, Schoof JT, Ford TW, Remo JWF. 2021. Extreme precipitation in the Great Lakes region: trend estimation and relation with large-scale circulation and humidity. *Frontiers in Water*, doi: 10.3389/frwa.2021.782847.

56. Ford TW, L Chen, Schoof JT. 2021. Transitions in precipitation extremes in the Midwest United States. *Journal of Hydrometeorology*, 22, 533-545.

55. Pryor SC, Schoof JT. 2020. Differential credibility assessment for statistical downscaling. *Journal of Applied Meteorology and Climatology,* 59, 1333-1349.

54. Burchfield E, Matthews-Pennanen N, Schoof J, Lant C. 2019. Changing yields in the Central United States under climate and technological change. *Climatic Change*, doi:10.1007/s10584-019-02567-7.

53. Li R, Crowe J, Leifer D, Zou L, Schoof J. 2019. Beyond big data: Social media challenges and opporunities for understanding social perception of energy. *Energy Research & Social Science*, 56, doi:10.1016/j.erss.2019101217.

52. Schoof JT, Pryor SC, Ford TW. 2019. Projected changes in United States regional extreme heat days derived from bivariate quantile mapping of CMIP5 simulations. *Journal of Geophysical Research – Atmospheres,* 124, 5214-5232, doi:10.1029/2018JD029599.

51. Pryor SC, Schoof JT. 2019. A hierarchical analysis of the impact of methodological decisions on statistical downscaling of daily precipitation and air temperatures. *International Journal of Climatology*, 39, 2880-2900.

50. Bouska K, Whitledge G, Lant C, Schoof J. 2019. Drivers and uncertainties of forecasted range shifts for warm-water fishes under coupled climate and land cover change. *Canadian Journal of Fisheries and Aquatic Sciences*, 76, 415-425.

49. Rijal S, Wang G, Woodford P, Hutchinson JMS, Howard H, Hutchinson S, Hutchinson JMS, Schoof J, Oyana TJ, Li R, Park L. 2018. Detection of gullies in Fort Riley Military Installation using LiDAR derived high resolution DEM. *Journal of Terramechanics,* 77, 15-22.

48. Pryor SC, Sullivan RC, Schoof JT. 2017. Modeling the contributions of global air temperature, synoptic-scale phenomena and soil moisture to near-surface static energy variability over the eastern USA. *Atmospheric Chemistry and Physics*, 17, 14457-14471, doi:10.5194/acp-17-14457-2017.

47. Schoof JT, Ford TW, Pryor SC. 2017. Recent changes in heat wave characteristics derived from multiple reanalyses. *Journal of Applied Meteorology and Climatology*, 56, 2621-2636.

46. Wodika A, Schoof J. 2017. Assessing climate change education on a Midwestern college campus. *Applied Environmental Education and Communication*, 1-14, doi:10.1080/1533015X.2017.1348268.

45. Rijal S, Wang G, Woodford PB, Howard HR, Schoof J, Oyana TJ, Park LO, Li R. 2017. Comparison of military and non-military land condition using an image derived soil erosion cover factor. *Journal of Soil and Water Conservation*, 72, 425-437.

44. Teshager AD, Gassman PW, Secchi S, Schoof JT. 2017 Simulation of targeted pollutant mitigation strategies to reduce nitrate and sediment hotspots in an agricultural watershed. *Science of the Total Environment*, 607-608, 1188-1200, doi:10.1016/j.scitotenv.2017.07.048.

43. Ford T, Schoof J. 2017. Characterizing extreme and oppressive heat waves in Illinois. *Journal of Geophysical Research: Atmospheres* 122, 682-698. doi:10:1002/2016JD05721.

42. Bhattarai M, Secchi S, Schoof J. 2017. Projecting corn and soybean yields under climate change in a Corn Belt watershed. *Agricultural Systems*, 152, 90-99, doi:10.1016/j.agsy.2016.12.013.

41. Bhattarai MD, Secchi S, Schoof J. 2017. An analysis of the climate change mitigation potential through soil organic carbon sequestration in a Corn Belt watershed. *Environmental Management*, doi:10.1007/s00267-016-0771-6.

40. Ford T, Schoof J. 2016. Oppressive heat events in Illinois related to antecedent wet soils. *Journal of Hydrometeorology*, 17, 2713-2726, doi:10.1175/JHM-D-16-0075.1.

39. Stoebner T, Lant CL, Schoof JT, Crabb B. 2016. The effect of climate change on rural land cover patterns in the central United States. *Climatic Change*, 138, 585-602, doi:10.1007/s10584-016-1738-6.

38. Teshager AD, Gassman PW, Schoof JT, Secchi S. 2016. Assessment of impacts of agricultural and climate change scenarios on watershed ecosystem

services. *Hydrology and Earth System Science*, 20, 3325-3342, doi:10.5194/hess-20-3325-2016.

37. Pryor SC, Schoof JT. 2016. Evaluation of near-surface temperature, humidity, and equivalent temperature from regional climate models applied in type-II downscaling. *Journal of Geophysical Research:Atmospheres*, 121, 3326-3338.

36. Schoof JT, Robeson SM. 2016. Projecting changes in regional temperature and precipitation extremes in the United States. *Weather and Climate Extremes* (invited), 11, 28-40, doi:10.1016/j.wace.2015.09.004.

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11. Schoof JT, Pryor SC. 2006. An evaluation of two GCMs: Simulation of North American teleconnection indices and synoptic phenomena. *International Journal of Climatology* **26**, 267-282.

10. Schoof JT, Arguez A, Brolley J, O'Brien JJ. 2005. A new weather generator based on spectral properties of minimum surface air temperature and diurnal temperature range. *Agricultural and Forest Meteorology* **135**, 241-251.

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D. CHAPTERS/SECTIONS IN PROFESSIONAL BOOKS

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E. BOOK REVIEWS

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Environmental assessment as a tool for climate change mitigation, Benoit Mayer, Oxford University Press, 2024. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. January 2026.

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In quest of a shared planet: negotiating climate from the Global South, Naveeda Ahmed Khan, Fordham, 2023. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. March 2024.

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Energy and Rhythm: Rhythmanalysis for a Low Carbon Future, Gordon Walker, Rowman and Littlefield, 2021. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. November 2021.

The Handbook of Natural Resources Volume 6: Atmosphere and Climate, Yeqiao Wang (editor), CRC Press, 2020. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. August 2021.

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Climate extremes and society, Diaz and Murnane (editors), Cambridge University Press, 2008. CHOICE: *Current Reviews for Academic Libraries. Science and Technology,* December 2008.

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Field notes from a catastrophe: Man, nature and climate change, Kolbert, Bloomsbury, 2006, 210 pp, CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* December, 2006.

Global warming: Myth or reality?, Leroux, Springer/Praxis, 2005, 509p, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, February, 2006.

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Understanding weather: a visual approach, Mayes and Hughes, Arnold 2004, 188p, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. June 2005.

F. WEBSITE REVIEWS
Skeptical Science (skepticalscience.com). CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. August 2015.

VI. TEACHING INTERESTS AND SPECIALTIES

A. TEACHING INTERESTS AND SPECIALTIES
- Meteorology and climatology
- Physical geography
- Global and regional environmental change
- Statistical methods and their application to problems in geography and climatology

B. TEACHING AND TRAINING GRANTS

Egyptian High School Summer Enrichment Program, SIU Carbondale College of Education and Human Services, August 2011, funded collaborator.

Development and delivery of thematically integrated courses in meteorology and climatology, Southern Illinois University Excellence Through Commitment Undergraduate Teaching Enhancement Award, 2008.

C. TEACHING AWARDS AND HONORS
None at this time

D. CURRENT GRADUATE FACULTY STATUS:
Direct Dissertation Status, approved 2008.

E. NUMBER OF MASTER'S AND PH.D. COMMITTEES ON WHICH YOU HAVE SERVED

Balbhadra Thakur, Ph.D., 2020 (Civil and Environmental Engineering)
Guangping Qie, Ph.D., 2019 (Environmental Resources and Policy)
Qing Wang, Ph.D., 2018 (Environmental Resources and Policy)
Minzi Wang, Ph.D., 2018 (Environmental Resources and Policy)
Anastasia Kyrmanidou, Ph.D., 2018 (Geosciences)
Anne Hayden-Lesmeister, Ph.D., 2017 (Environmental Resources and Policy)
Santosh Rijal, Ph.D., 2017 (Environmental Resources and Policy)
Mukesh Bhattarai, Ph.D., 2016 (Environmental Resources and Policy)
Wendi Middleton, Ph.D., 2015 (Health Education)
Kristen Bouska, Ph.D., 2014 (Environmental Resources and Policy)
Tim Stoebner, Ph.D., 2014 (Environmental Resources and Policy)
Alicia Wodika, Ph.D., 2013 (Health Education and Recreation)
Brendan Lutz, Ph.D., 2011 (Environmental Resources and Policy)
Terri Thomas, Ph.D., 2009 (Environmental Resources and Policy)

Noah Scalero, M.S., 2020 (Geography and Environmental Resources)
Jie She Liew, M.S., 2020 (Geography and Environmental Resources)
Nimisha Karki, M.S, 2020 (Geography and Environmental Resources)
Tara Gracer, M.S., 2019 (Geography and Environmental Resources)
Deepak Parajuli, M.S., 2019 (Geography and Environmental Resources)
Stephania Zneimer, M.S., 2019 (Geography and Environmental Resources)
Sourav Bhadra, M.S., 2019 (Geography and Environmental Resources)
Astha Bista, M.S., 2019 (Geography and Environmental Resources)
David Leifer, M.S., 2019 (Geography and Environmental Resources)
Shishir Manandhar, M.S., 2019 (Geography and Environmental Resources)
Jefferson Wright, M.S., 2019 (Geography and Environmental Resources)
Swastik Bhandari, M.S., 2018 (Civil and Environmental Engineering)
Ranjan Parajuli, M.S., 2018 (Civil and Environmental Engineering)
Molly Hacker, M.S., 2018 (Plant Biology)
Neil Matthews-Pennanen, M.S., 2017 (Environment and Society, Utah State University)
Brandon Polk, M.S., 2016 (Geography and Environmental Resources)
Pratik Pathak, M.S., 2016 (Civil and Environmental Engineering)
Diane Benbella, M.S., 2016 (Geography and Environmental Resources)
Ryan Larimore, M.S., 2015 (Geography and Environmental Resources)
Ashley Suiter, M.S., 2015 (Geography and Environmental Resources)
Mohamed Mahgoub, M.S., 2014 (Geography and Environmental Resources)

Samir Shrestha, M.S., 2014 (Geography and Environmental Resources)
Guanling Feng, M.S., 2014 (Geography and Environmental Resources)
Sydney Klein, M.S., 2014 (Geography and Environmental Resources)
Brooke Lopeman, M.S., 2014 (Geography and Environmental Resources)
Andrew Johnson, M.S., 2013 (Geography and Environmental Resources)
Melva Trevino-Pena, M.S., 2013 (Geography and Environmental Resources)
Ivan Remane, M.S., 2013 (Geography and Environmental Resources)
Kerry McLeran, M.S., 2013 (Geography and Environmental Resources)
Dana Murphy, M.S., 2013 (Geography and Environmental Resources)
Ryan Verbanaz, M.S., 2013 (Geology)
Tony Romano, M.S., 2012 (Geography and Environmental Resources)
Adam Oller, M.S., 2012 (Geography and Environmental Resources)
David Mann, M.S., 2011 (Geography and Environmental Resources)
Andrew Fleming, M.S., 2011 (Geography and Environmental Resources)
Sarah Waggoner, M.S., 2011 (Geography and Environmental Resources)
Hannah Kalk, M.S., 2011 (Plant Biology)
Rahul Prabhakar, M.S., 2010 (Electrical and Computer Engineering)
Nick Longbucco, M.S., 2010 (Geography and Environmental Resources)
Clara Mundia, M.S., 2010 (Geography and Environmental Resources)
Olga Guajardo, M.S., 2008 (Geography and Environmental Resources)
Christiane Bohn, M.S., 2007 (Geography and Environmental Resources)

F. NAMES OF STUDENTS WHO HAVE COMPLETED MASTER'S THESES AND DOCTORAL DISSERTATIONS UNDER YOUR DIRECTION

Connie Kaniewski, M.S., 2021 (Geography and Environmental Resources)
Understanding Flash Drought Duration, Spatial Extent, and Meteorological Drivers

Andrew Paxton, M.S., 2021 (Geography and Environmental Resources)
Extreme Precipitation in Illinois: Trend Estimation and Relation with Large-Scale Circulation and Humidity

Christian Landry, M.S., 2020 (Geography and Environmental Resources)
The Influence of Atmospheric Rivers on Extreme Precipitation in the Continental United States

Mercedes Gomez Jacobo, M.S., 2018 (Geography and Environmental Resources)
Assessing Equivalent Temperature Trends in Major Eastern US Cities.

Khara Lukancic, M.S., 2016 (Geography and Environmental Resources)
Sensitivity of Strong Extratropical Cyclones to Large-Scale Climate Variability in the Contiguous United States.

Awoke Teshager, Ph.D., 2016 (Environmental Resources and Policy; co-advised with Dr. Silvia Secchi) *Modeling Impacts of Agricultural Scenarios, Climate*

Change, and Best Management Practices on Watershed Water Quantity and Quality, and Crop Production the Midwestern USA.

Brooke Haldeman, M.S. 2015 (Geography and Environmental Resources) *Influence of Synoptic Scale Circulation on Equivalent Temperature Extremes in Chicago, IL (1948-2014)*

Zach Heern, M.S., 2013 (Geography and Environmental Resources) *Investigating Trends in Lower Tropospheric Heat Content and Heat Waves Over the Central United States Using Equivalent Temperature (1951-2011).*

Johannes Mack, M.S., 2013 (Geography and Environmental Resources) *The Cryosphere and North Atlantic Tropical Cyclone Activity: Statistical Forecasting and Physical Mechanisms*

Ravi Dhungel, M.S., 2012 (Geography and Environmental Resources / Computer Science) *Web Mapping and Application Towards A Cloud: Enabling a WEBGIS Prototype in an Open Source Environmental*

Samuel Fisher, M.S., 2012 (Geography and Environmental Resources) *Improving the Reliability of Wind Power Through Geographic Dispersion of Wind Generation.*

Audrey Wagner, M.S., 2011 (Geography and Environmental Resources) *Investigating Climatic Drivers of the Warming Hole Through Empirical Downscaling of Eastern U.S. Summertime Maximum Temperatures*

Mark Carlos, Ph.D., 2010 (Environmental Resources and Policy) *An Analysis of Wind Power Plant Prospecting in the Central United States*

Jeremy Surprenant, M.S., 2009 (Geography and Environmental Resources) *A Synoptic Climatology of Wildfires in the Central Hardwood Region of the Midwestern United States*

G. COURSES TAUGHT

Direct Instruction:

Instructor, Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: **UNIV 101: Foundations of Inquiry**
Fall 2025 (1 section, 8 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 303: Physical Geography***
Spring 2012 (1 section, approximately 60 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 330: Meteorology***

Spring 2006 (1 section, approximately 80 students)
Fall 2006 (1 section, approximately 80 students)
Spring 2007 (1 section, approximately 60 students)
Fall 2007 (1 section, approximately 80 students)
Spring 2008 (1 section, approximately 60 students)
Fall 2008 (1 section, approximately 65 students)
Spring 2009 (1 section, approximately 45 students)
Fall 2009 (1 section, approximately 55 students)
Spring 2010 (1 section, approximately 45 students)
Fall 2010 (1 section, approximately 46 students)
Fall 2011 (1 section, approximately 68 students)
Fall 2013 (1 section, approximately 60 students)
Fall 2014 (1 section, approximately 40 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 330: Physical Climatology***

Spring 2021 (1 section, approximately 10 students)
Spring 2022 (1 section, approximately 10 students)
Spring 2023 (1 section, approximately 10 students)
Spring 2024 (1 section, approximately 15 students)
Spring 2025 (1 section, approximately 15 students)
Spring 2026 (1 section, approximately 20 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 412/512: Applied Statistics in Geography***

Fall 2007 (1 section, approximately 15 students)
Fall 2008 (1 section, approximately 10 students)
Fall 2009 (1 section, approximately 20 students)
Spring 2011 (1 section, approximately 24 students)
Fall 2011 (1 section, approximately 22 students)
Fall 2012 (1 section, approximately 29 students)
Fall 2013 (1 section, approximately 25 students)
Fall 2014 (1 section, approximately 25 students)
Fall 2015 (1 section, approximately 20 students)
Fall 2016 (1 section, approximately 20 students)
Fall 2017 (1 section, approximately 20 students)
Fall 2018 (1 section, approximately 20 students)
Fall 2019 (1 section, approximately 20 students)
Fall 2020 (1 section, approximately 20 students)
Fall 2021 (1 section, approximately 20 students)
Fall 2022 (1 section, approximately 15 students)
Fall 2023 (1 section, approximately 15 students)
Fall 2024 (1 section, approximately 15 students)

Fall 2025 (1 section, approximately 15 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 431/531: Climatology***
Spring 2006 (1 section, approximately 12 students)
Spring 2007 (1 section, approximately 15 students)
Spring 2008 (1 section, approximately 11 students)
Spring 2009 (1 section, approximately 12 students)
Spring 2010 (1 section, approximately 20 students)
Spring 2011 (1 section, approximately 15 students)
Spring 2012 (1 section, approximately 12 students)
Spring 2013 (1 section, approximately 16 students)
Spring 2015 (1 section, approximately 10 students)
Spring 2016 (1 section, approximately 15 students)
Spring 2018 (1 section, approximately 10 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 439/539: Global Climate Change***,
Fall 2006 (1 section, approximately 11 students)
Fall 2010 (1 section, approximately 19 students)
Fall 2016 (1 section, approximately 20 students)
Fall 2018 (1 section, approximately 20 students)
Fall 2019 (1 section, approximately 20 students, team-taught with Dr. Leslie Duram)

Instructor, Department of Geography, Indiana University, Bloomington, Indiana, USA: ***G109 Weather and Climate***
Spring 2003 (1 section, approximately 165 students)

Instructor, Department of Geography, Indiana University – Purdue University at Indianapolis, Indianapolis, Indiana, USA: ***G111 Hurricanes***
Fall 2002 (1 section, approximately 26 students)

Associate Instructor, Department of Geography, Indiana University, Bloomington, Indiana, USA: ***G109 Weather and Climate***
Fall 1999 (3 lab sections, approximately 90 students)

Indirect Teaching (Independent Study, etc.)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 490: Readings in Geography***.
Fall 2007 (1 student)
Spring 2007 (3 students)
Spring 2008 (2 students)
Fall 2012 (1 student)
Spring 2014 (1student)

Spring 2015 (1 student)
Fall 2017 (1 student)
Fall 2019 (1 student)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 501: Research Methods.***
Spring 2017 (1 student)
Spring 2019 (1 student)
Spring 2020 (1 student)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: **GEOG *591: Independent Studies.***
Spring 2008 (1 student)
Spring 2009 (1 student)
Fall 2009 (1 student)
Spring 2010 (2 students)
Fall 2010 (1 student)
Summer 2011 (1 student)
Fall 2011 (2 students)
Fall 2011 (1 student)
Fall 2012 (1 student)
Spring 2014 (1student)
Fall 2014 (1 student)
Spring 2015 (2 students)
Fall 2016 (1 student)
Spring 2017 (2 students)
Fall 2017 (2 students)
Summer 2018 (1 student)
Fall 2019 (1 student)
Spring 2020 (1 student)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***ER&P 599: Individual Research.***
Summer 2007 (1 student)
Summer 2011 (1 student)
Fall 2015 (1 student)
Fall 2016 (1 student)
Fall 2017 (1 student)

H. GUEST/INVITED LECTURES

<u>Guest Lectures in Courses</u>

Schoof JT. Geography and Environmental Resources (GEOG) 500, Principles of Research, SIU Carbondale. This guest lecture has been given each fall since 2006.

Schoof JT. Global and regional climate change science, Geography and Environmental Resources (GEOG) 470/570, SIU Carbondale, lecture has been given each semester, 2014-2021.

Schoof JT. Climate change science, Cinema and Photography (C&P) 470, SIU Carbondale, Spring 2019.

Schoof JT. Climate modeling, Geography and Environmental Resources (GEOG) 439, SIU Carbondale, Spring 2014.

Schoof JT. Wind energy. Geology (GEOL) 588, SIU Carbondale, lecture was given four times, once each summer between 2011 and 2014.

Schoof JT. Climate change and human health. Health Education 588, SIU Carbondale. This guest lecture was given seven times, once each summer between 2009 and 2015.

Schoof JT. Anthropogenic climate change. Agribusiness Economics (AGRI) 442, SIU Carbondale. This guest lecture was been given six times, once each spring between 2008 and 2014.

Schoof JT. Global climate change. Environmental Resources and Policy (ERP) 500, SIU Carbondale. This guest lecture was given four times between 2006 and 2013.

Schoof JT. Severe weather hazards. Geography and Environmental Resources (GEOG) 436/536 Natural Hazards, SIU Carbondale. 2008-2009.

Schoof JT. 20th century climate variability. Department of Geography, G475/575 Climate Change, Indiana University, Fall 2003.

Schoof JT. Synoptic climatological classification. Department of Geography, G433 Synoptic Meteorology and Climatology, Indiana University, Spring 2001.

Invited Seminar Presentations

Schoof JT. Projected changes in extreme heat derived from bivariate downscaling of 21st century climate model simulations. Zoology seminar, Southern Illinois University, Fall 2019.

Schoof JT. Projected regional changes in the characteristics of dry and moist heat waves in the United States derived from downscaled CMIP5 models. Geography/ERP seminar, Southern Illinois University, Fall 2017.

Schoof JT. Recent changes in the moisture content of United States heat waves. Department of Geography, Kent State University, Fall 2016.

Schoof JT. Observed and GCM-simulated relationships between US wind speeds and large scale modes of climate variability, Geology Department, SIU Carbondale, Fall 2013.

Schoof JT. Quantitative Research, McNair Scholars Program, SIU Carbondale, Summer 2012.

Schoof JT. Projections of human heat stress for the Midwestern USA. ER&P 598, SIU Carbondale, Fall 2010.

Schoof JT. Probabilistic downscaling of 21st century precipitation occurrence and intensity. Illinois State Water Survey Center for Atmospheric Science, Champaign, IL, December 2009.

Schoof JT. Using statistical precipitation models to study historical and projected climate change. Indiana University Department of Geography colloquium. September, 2008.

Schoof JT. Recent climate change: Are we approaching a tipping point? Keynote address for "The Cascading Effects of Global Warming", a forum organized by the Jackson County League of Women Voters and the United Nations Association of Southern Illinois, September 2008.

Schoof JT. Development of a regional-scale seasonal temperature and precipitation forecasting system for the Southeastern USA. ER&P 598, SIU Carbondale, Spring 2008.

Schoof JT. Dynamically and statistically downscaled seasonal temperature and precipitation hindcast ensembles for the southeastern USA. St. Louis University, Department of Earth and Atmospheric Sciences, April 2008.

Schoof JT. Changes in the length of the frost-free season in the Midwestern USA from historical records and climate model projections. SIU Center for Ecology, SIU Carbondale, April 2008.

Schoof JT. Climate Modeling. Symposium titled "Changing climates: Evidence of long term trends and their social consequences. Sponsored by the Center for Delta Studies, Southern Illinois University, Carbondale, February 2008.

Schoof JT. Climate projections for the Midwest. The Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University, October 2004.

Schoof JT. Climate projections for the Midwest. Department of Geography Colloquium, Indiana University, October 2004.

Schoof JT. 21st Century Climate Projections. Dean's Advisory Board, Indiana University, September 2004.

Invited presentations on the SIU campus

Schoof JT. Climate Change: Understanding the Role of Humans. Charles D. Tenney Distinguished Lecture, SIU Honors Program, Southern Illinois University, February 2020.

Schoof JT. Decision 2020, panelist for discussion of climate issues, Paul Simon Public Policy Institute, SIU Carbondale, February 2020.

Schoof JT. Expecting excellence. Graduate Assistant Training Workshop, SIU Carbondale. August 2019.

Schoof JT. Citizen Science: CoCoRaHS. Saluki Water Workshop, this presentation has been given multiple times, most recently in Spring 2019.

Schoof JT. Understanding the IPCC Special Report on Global Warming of 1.5°C. Keynote Address, Saluki Energy Forum, November 2018.

Schoof JT. Global Climate Change. SIU Carbondale Fossil Fuel Divestment Movement presentation, December 2013.

Regional service presentations and other media appearances

Schoof JT. Historical and future climate change in Illinois. Southern Illinois Learning in Retirement, January 2021 (presentation given using Zoom).

Schoof JT. Historical and future climate change in Illinois. Jackson County League of Women Voters Spring Luncheon, May 2020 (presentation given using Zoom).

Schoof JT. Historical and future climate change in Illinois. Illinois Grape Growers and Vintner's Alliance, Walker's Bluff, February 2020.

Schoof JT. Climate change. University of Illinois Master Naturalist course, lecture given many times, most recently in February 2020.

Schoof JT. Regional Climate Change in Southern Illinois. Presentation to City Council, Carbondale, IL, October 2019.

Schoof JT. Regional Climate Change in Southern Illinois. Presentation to City of Carbondale Department Heads. Carbondale, IL, June 2019.

Schoof JT. Regional Climate Change in Southern Illinois. Newman Catholic Center, Carbondale, IL, April 2019.

Schoof JT. Regional Climate Change in Southern Illinois. Closing Plenary Presentation for the Illinois Indigenous Plants Symposium, John A. Logan College, Carterville, IL, April, 2019.

Schoof JT. Regional Climate Change in Southern Illinois. Rotary Club of Jackson-Williamson Counties, April, 2019.

Schoof JT. Unpacking Recent Climate Change Reports: The IPCC Report on Global Warming of 1.5°C and the 4th National Climate Change Assessment. Sierra Club, Shawnee Group, February, 2019.

Schoof JT. Climate Change and Water: Understanding Changes in the Hydrologic Cycle in a Warmer World. Carbondale Community Arts, December 2016.

Schoof JT. Global and Regional Climate Change Science. Lecture honoring David Christensen, Varsity Theater, Carbondale, January 2015.

Schoof JT. Panel Member, Illinois News Broadcasters Association (INBA) panel on severe weather, Rent One Park, Marion, IL, October 2014.

Schoof JT. Twenty-First Century Climate Risks for the Midwestern USA. Sierra Club, Shawnee Group, January 2013.

Schoof JT. Drought and the Mississippi River, National Public Radio (NPR) On Point with Tom Ashbrook, January 2013.

Schoof JT. Understanding Regional Climate Change Projections, Science Café, Science Center of Southern Illinois, November 2012. A WSIU radio interview with Jennifer Fuller was also conducted as part of the Science Café series.

Schoof JT. Global Warming. Rotary Club of Carbondale, April 2008.

Schoof JT. Technology and Science. Project Next Generation, Carbondale Public Library, Carbondale, IL, 2007.

Schoof JT. Climate Change. Girl Scouts of America, Carbondale, IL, 2006.

I. Mentoring

Mentor, McNair Scholars Program, Advisee: Mercedes Gomez, Summer 2012.

Internship Mentor (Emma Bialecki): Illinois Department of Natural Resources, Summer 2007.

Undergraduate Research Assistantship (Justin Hassler): Visualization of 20th Century Climate Variations, Fall 2006, Spring 2007.

Undergraduate Research Assistantship (Brett Murphy): Development of a Stochastic Weather Generator for Heat Stress, Spring 2009.

J. Current Graduate Students

a. PhD Students

Saidat Rasaq-Balogun (ER&P, chair)
Andrew Paxton (Geosciences, chair)
Yao Xue (ER&P, chair)
Neekita Joshi (Engineering, committee member)
Khara Lukancic (Cinema and Photography, committee member)
Xian Liu (ER&P, committee member)
Amina Naliaka (ER&P, committee member)
Balbhadra Thakur (Engineering, committee member)

b. MS Students

VII. UNIVERSITY SERVICE

A. DEPARTMENTAL SERVICE

2019-20 Curriculum Committee, College of Agricultural, Life, and Physical Sciences, SIU Carbondale
2014-15 Undergraduate Program Director, Department of Geography & Environmental Resources, SIU Carbondale
2009-15 Curriculum Committee, Department of Geography & Environmental Resources, SIU Carbondale
2006-12 Undergraduate Program Director, Department of Geography & Environmental Resources, SIU Carbondale

B. COLLEGE AND UNIVERSITY SERVICE

2022 Member, SIU Carbondale Climate Action Planning Committee
2020 Search Committee, Director, Advanced Coal and Energy Research Center
2019 Program Reviewer, Zoology, Southern Illinois University
2017 Reviewer, Saluki Innovation Annex Proposals
2014-18 College of Liberal Arts, Budget and Planning Committee
2014-16 Member, Bargaining Team for GAU contract negotiation
2013-14 Chair, Task Force on Hydrology, SIU Carbondale
2012-13 Chair, College of Liberal Arts (CoLA) Council, SIU Carbondale
2012-13 Tuition-on-grants Committee

2012 University-Level Teaching Excellence Award Committee
2011-13 College of Liberal Arts, Budget and Planning Committee
2011-12 Chairperson, Communications and Outreach Committee, College of Liberal Arts (CoLA) Council, SIU Carbondale
2011-13 Member, College of Liberal Arts (CoLA) Council, SIU Carbondale
2006-08 Member, College of Liberal Arts (CoLA) Council, SIU Carbondale
2002-04 Executive Board Member of the Indiana University Commission on Multicultural Understanding (COMU); Co-Convener for the *Faculty and Staff Policy Issues Committee*

VIII. PROFESSIONAL SERVICE

A. MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

American Geophysical Union (AGU)
American Meteorological Society (AMS)
Association of American Geographers (AAG)
Sigma Xi (Secretary of SIU Chapter since 2012)

B. OFFICES HELD AND HONORS AWARDED IN PROFESSIONAL ASSOCIATIONS

Water and Atmospheric Resources Monitoring (WARM) Program, Prairie Research Institute, University of Illinois, external advisory board (2019-current)

Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI), SIU representative (2016-present)

American Meteorological Society (AMS) Committee of Judges of Undergraduate Awards (2011-2015)

C. CONSULTANTSHIPS

None at this time.

D. EVALUATION OF MANUSCRIPTS FOR JOURNALS AND BOOK PUBLISHERS AND OF GRANT PROPOSALS FOR AGENCIES

Book Reviews:
Oxford University Press: 1 review (2018)
Taylor and Francis (prospectus review): 1 review (2017)
Cambridge (prospectus review): 1 review (2013)
Southern Illinois University Press: 1 review (2013)
Prentice Hall (textbook): 1 review (2010).
Brooks/Cole (textbook): 1 review (2008).
John Wiley & Sons (textbooks): 2 reviews (2007, 2008).

Manuscript Reviews: I serve as a reviewer for a large number of climate-related journals.
The journals below include those that I have reviewed for in the past 5 years.

Applied Geography
Atmosphere-Ocean
Climate
Climate Dynamics
Climate Research
Climatic Change
Geography Compass
Geophysical Research Letters
International Journal of Climatology
Journal of Applied Meteorology and Climatology
Journal of Atmospheric and Oceanic Technology
Journal of Climate
Journal of Geophysical Research – Atmospheres
Journal of Hydrology
Journal of Hydrometeorology
Physical Geography
Science of the Total Environment
Theoretical and Applied Climatology
Weather and Climate Extremes

Proposal Reviews:

National Science Foundation, Panel Review: 2012
NOAA Climate Program Office (CPO): 1 review (2009)
USGS Maine Water Resources Institute Program Grants: 1 review (2009)
National Science Foundation ad-hoc reviews: 6 reviews (2007, 2011 (2), 2012 (2), 2014)
Czech Science Foundation: 1 review (2005)
Estonian Science Foundation: 1 review (2011)

E. PAPERS AND PRESENTATIONS AT PROFESSIONAL MEETINGS (see IV F)

F. PROMOTION AND TENURE REVIEW

2018 Loyola University Chicago, Institute for Environmental Sustainability
2018 University of Connecticut

G. PROGRAM REVIEW

2019 Ball State University, Geography

IX. COMMUNITY SERVICE

2021 Judge, Sigma Xi Poster Competition, SIU Carbondale
2019 Judge, Sigma Xi Poster Competition, SIU Carbondale
2014Judge, Sigma Xi Poster Competition, SIU Carbondale
2013Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair
2012Judge, Sigma Xi Poster Competition, SIU Carbondale
2010Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair
2009Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair
2007Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair