

JOHN HARRINGTON, JR.

Curriculum Vitae

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Personal Data

Date and Place of Birth: 4-5-50, Rochester, NY
Office Address: Department of Geography, 118 Seaton Hall
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Research Interests

Synoptic Climatology	Climate Variability & Change	Biogeography
Synoptic Meteorology	Human Dimensions of Global Change	Remote Sensing of Vegetation
Ecological Climatology	Sustainability Science	Water Quality Remote Sensing
Precipitation Climatology	Land Change Science	Geographic Education
Climate Classification	Geographic Information Systems	Applied Geography

Educational Data

B.S. (Geography) Michigan State University (1972)
M.A. (Geography) University of Minnesota (1974), Advisor: Dr. Richard Skaggs
Ph.D. (Geography) Michigan State University (1980), Advisor: Dr. Jay Harman

Membership in Professional Organizations

American Geographical Society	American Association for the Advancement of Science
Association of American Geographers	American Geophysical Union
National Council for Geographic Education	American Meteorological Society
National Geographic Society	

Professional Experience

1996 - Kansas State University: Professor
1999 - 2005 Kansas State University: Department Head
1996 Kansas State University: Acting Department Head (Fall)
1994 - 1996 Kansas State University: Associate Professor
1993 - 1994 Indiana State University: Professor
1990 - 1993 Indiana State University: Associate Professor
1989 - 1990 Indiana State University: Visiting Associate Professor
1988 - 1994 USDA Agriculture Research Service: Remote Sensing Specialist
1986 - 1989 New Mexico State University: Associate Professor
1985 - 1986 University of Nebraska-Lincoln: Assistant Professor
1984 University of Nebraska-Lincoln: Visiting Asst. Professor (Fall)
1980 - 1985 University of Oklahoma: Assistant Professor
1978 - 1980 University of Oklahoma: Visiting Assistant Professor

Awards and Special Appointments

2007 - Coordinator, Kansas Geographic Alliance
2007 Professorial Performance Award, Kansas State
2005 - 2007 Co-coordinator, Kansas Geographic Alliance
2004 - 2007 Chair, University GIScience Steering Committee, Kansas State
2003 Member, National Research Council, Workshop Steering Committee
2002 Member, Assoc. of American Geographers, Nominating Committee

- 2000 - 2003 Member, Assoc. of American Geographers, Commission of College Geography Committee
- 2000 - 2002 Climatology Editor, Physical Geography
- 1998 - 2001 Director, Natural Resources and Environmental Sciences Secondary Major, Kansas State
- 1994 - 1995 Fellow, Institute for Social and Behavioral Research, Kansas State
- 1992 Associate Director, Colorado Geographic Alliance Summer Institute
- 1986 - 1988 Director, Digital Mapping Laboratory, New Mexico State University
- 1985 Remote Sensing Specialist, Conservation and Survey Division, University of Nebraska
- 1982 Junior Faculty Summer Research Fellow, University of Oklahoma
- 1981 Summer Research Scientist, Oklahoma Climatological Survey

Edited Volumes

- 2009 Papers of the Applied Geography Conference, Vol: 32, Lisa MB Harrington, John Harrington, Jr., and James Barker (eds), 459 pp.
- 2008 Papers of the Applied Geography Conference, Vol: 31, Lisa MB Harrington, John Harrington, Jr., and James Barker (eds), 350 pp.
- 2007 Papers of the Applied Geography Conference, Vol: 30, Lisa MB Harrington, John Harrington, Jr., and Christopher Laingen (eds), 545 pp.
- 2006 Papers of the Applied Geography Conference, Vol: 29, Lisa MB Harrington, John Harrington, Jr., and Christopher Laingen (eds), 456 pp.

Refereed Publications - Major Journals and Book Chapters

- 2009 "Potential climate change effects on warm-season livestock production in the Great Plains," T. Mader, K. Frank, J. Harrington, Jr., G.L. Hahn, and J. Nienaber, Climatic Change (available online first)
- "Water for Agriculture: Global Change and Geographic Perspectives on Research Challenges for the Future," J. Harrington, Jr., Journal of Contemporary Water Research and Education 142: 36-41.
- "Comparative assessment of human-environment landscape change," J. Harrington, Jr., B. Yarnal, D. Liverman, and B. Turner, II in Sustainable Communities on a Sustainable Planet, B. Yarnal, C. Polsky, and J. O'Brien (eds.) pp. 107-136, Cambridge University Press.
- "Fossil water and agriculture in southwestern Kansas," L. Harrington, M. Lu, and J. Harrington, Jr. in Sustainable Communities on a Sustainable Planet, B. Yarnal, C. Polsky, and J. O'Brien (eds.) pp. 269-291, Cambridge University Press.
- "Landsat Mapping of Local Landscape Change: The Satellite-era Context," R. Headley, R. Pontius, Jr., J. Harrington, Jr. and C. Sorrensen in Sustainable Communities on a Sustainable Planet, B. Yarnal, C. Polsky, and J. O'Brien (eds.) pp. 137-154, Cambridge University Press.
- "Infrastructure for Observing Local Human-Environment Interactions," B. Yarnal, A. Comrie, J. Harrington, Jr., C. Polsky, and O. Ahlqvist in Sustainable Communities on a Sustainable Planet, B. Yarnal, C. Polsky, and J. O'Brien (eds.) pp. 1-12, Cambridge University Press.
- "Lessons Learned from the HERO Project," B. Yarnal, A. Comrie, J. Harrington, Jr., C. Polsky, and O. Ahlqvist in Sustainable Communities on a Sustainable Planet, B. Yarnal, C. Polsky, and J. O'Brien (eds.) pp. 317-338, Cambridge University Press.
- 2008 "Misconceptions: Barriers to Climate Literacy," J. Harrington, Jr., Physical Geography, Vol. 29(6):575-584.
- 2007 "Groundwater Depletion and Agriculture Land Use Change in Wichita County, Kansas," Nathan P Kettle, Lisa MB Harrington, and John Harrington, Jr., Professional Geographer Vol 59 (2): 221-235.
- 2004 "Geospatial Contributions to Watershed-Scale Surface Water Quality Modeling," J.M.S. Hutchinson, J. Harrington, Jr., and L.J. Marzen in World Minds: Geographical Perspectives on 100 Problems, D.G. Janelle, *et al.* (eds.), p. 565-570.
- 2003 "An Integrated Approach for Water Quality Assessment of a Kansas Watershed" S. Bhuyan, J. Koelliker, L. Marzen, and J. Harrington, Jr., Journal of Environmental Modelling and Software Vol. 18: 473-484.
- "Southwest Kansas: Local Emissions and Non-Local Determinants" J. Harrington, Jr., D. Goodin, L. Harrington, D. Kromm, and S. White, pp. 57-78 in Global Change in Local Places: Estimating, Understanding, and Reducing Greenhouse Gases R. Abler ed., Cambridge University Press.
- 2002 "Land Cover Change and Associated Trends in Surface Reflectivity and Vegetation Index in Southwest Kansas: 1972-1992," D.G. Goodin, J. Harrington, Jr., and B.C. Rundquist, Geocarto International Vol. 17(1), 43-50.

- "Assessment of runoff and sediment yield using remote sensing, GIS and AGNPS," S. Bhuyan, L. Marzen, J. Koelliker, J. Harrington, Jr., and P. Barnes, Journal of Soil and Water Conservation Vol. 57: 351-364.
- 2001 "Teaching Site-Specific Agriculture: Three Semesters' Experience with a Multi-Disciplinary Approach," J.P. Schmidt, M.D. Ransom, G.J. Kluitenberg, M.D. Schrock, J. Harrington, Jr., R.K. Taylor, and J.L. Havlin, Journal of Natural Resources and Life Sciences Education Vol. 30, 77-83.
- 2001 "Furnace Winds of the West," N.J. Leathers and J. Harrington, Jr., Journal of the West Vol. 40 (3), 48-57.
- 2000 "A Climatology of Surface Cyclone Trajectory and Intensity for Heavy-Snow Events at Three Midwestern Stations," G.D. Bierly and J. Harrington, Jr., Physical Geography Vol. 21, 522-537.
- "The Effects of Climatic Factors on Vegetation Dynamics of Tallgrass and Shortgrass Vegetation Cover," B.C. Rundquist and J. Harrington, Jr., Geocarto International Vol. 15 (3), 31-36.
- "Mesoscale Satellite Bioclimatology," B.C. Rundquist, J. Harrington, Jr., and D.G. Goodin, Professional Geographer Vol. 52, 331-344.
- "Understanding and Portraying the Global Circulation," J. Harrington, Jr. and J.E. Oliver, Journal of Geography Vol. 99, 23-31.
- 1999 "Major Snowfalls in the Great Plains: Temporal Aspects and Relative Importance," N.J. Leathers and J. Harrington, Jr., Physical Geography Vol. 20, 134-151.
- 1998 "Local Greenhouse Gas Emissions: A Case Study in Southwest Kansas," D.G. Goodin, J. Harrington, Jr., G.I. Holden, Jr., and B.D. Witcher, Great Plains Research Vol. 8, 231-253.
- "Balancing Scientific and Ethical Values in Environmental Science," J.R. Harman, J. Harrington, Jr., and R.S. Cervený, Annals, AAG Vol. 88, 277-286.
- "Reply: Ethics, Values, and Geographic Research" J.R. Harman, J. Harrington, Jr., and R.S. Cervený, Annals, AAG Vol. 88, 308-310.
- "Vegetation Change in the Mount St. Helens Blast Zone, 1979-1992," L.M.B. Harrington, J. Harrington, Jr., and P.M. Frenzen, Geocarto International Vol. 13, 75-82.
- "Remote Sensing of Temporal and Spatial Variations in Pool Size, Suspended Sediment, Turbidity, and Secchi Depth in Tuttle Creek Reservoir, Kansas: 1993," M.D. Nellis, J. Harrington, Jr., and J. Wu, Geomorphology Vol. 21, 281-293.
- 1996 "Mapping Reservoir Turbidity Patterns Using SPOT-HRV Data," D.G. Goodin, J. Harrington, Jr., M.D. Nellis, and D.C. Rundquist, Geocarto International Vol. 11(4), 71-78.
- 1995 "Satellite-Based Herbaceous Biomass Estimates in the Pastoral Zone of Niger" B. Wylie, I. Denda, R. Pieper, J. Harrington, Jr., B. Reed, and M. Southward Journal of Range Management Vol. 48, 159-164.
- "A Climatology of Spring and Fall Colorado Cyclones: 1961-1990," G.D. Bierly, and John Harrington, Jr., Journal of Climate Vol. 8, 853-863.
- 1994 "Chlorophyll Measurements in the Presence of Suspended Sediment Using Broad Band Spectral Sensors Aboard Satellites" J. Ritchie, F. Schiebe, C. Cooper, and J. Harrington, Jr., Journal of Freshwater Ecology, Vol. 9, 197-206.
- 1992 "Remote Sensing of Suspended Sediments: The Lake Chicot, Arkansas Project, F.R. Schiebe, J. Harrington, Jr., and J.C. Ritchie International Journal of Remote Sensing, Vol. 13, 1487-1509.
- "Migration of the Southwest North American Monsoon: Impact of the Southern Oscillation," J. Harrington, Jr., R.S. Cervený, and R.C. Balling, Jr., Physical Geography Vol. 13(4), 318-330.
- "A Satellite-based Range Assessment System for the Sahel of Africa," B. Wylie, J. Harrington, Jr., R. Pieper, and I. Denda Geocarto International, Vol. 7(1), 79-85.
- "Remote Sensing of Lake Chicot, Arkansas: Monitoring Suspended Sediments, Turbidity, and Secchi Depth," J. Harrington, Jr., F. Schiebe, and J.F. Nix Remote Sensing of Environment, Vol. 39, 15-27.
- 1991 "Satellite and Ground Based Pasture Assessment in Niger: 1986 - 1988," B.K. Wylie, J. Harrington, Jr., S.D. Prince, and I. Denda International Journal of Remote Sensing, Vol. 12, 1281-1300.
- "Satellite Mapping of Suspended Sediment and Its Application to Reservoir Assessment," J.R. Ross, F.R. Schiebe, J. Harrington, Jr., and H.J. Grimshaw Lake and Reservoir Management, Vol. 7, 89-95.
- "Contests as Learning Experiences: The Role of Weather Forecasting Contests in Geography Programs," J. Harrington, Jr., R.S. Cervený, and J.S. Hobgood Journal of Geography, Vol. 90, 27-31.
- "Climate and Vegetation of the Mid-continent: Natural Patterns and Human Alterations," J. Harrington, Jr. and J.R. Harman Great Plains Quarterly, Vol. 11, 103-112.
- 1990 "Rural Addressing and Computer Mapping in New Mexico," W.J. Gribb, R.J. Czerniak, and J. Harrington, Jr., Professional Geographer, Vol. 42(4), 471-480.

- "Multidate Image Analysis of Forest Degradation in Equatorial Africa," S.M. Berta, P.W. Mausel, J. Harrington, Jr., and R. Graham, Geocarto International, Vol. 4(4), 57-61.
- 1989 "Landsat MSS Images of the Clean-up of Lake Chicot," J. Harrington, Jr. and F.R. Schiebe, Geocarto International, Vol. 4, 59-62.
- 1988 "Temporal Statistics: An Application in Snowfall Climatology," J. Harrington, Jr. and R.S. Cervený, Physical Geography, Vol. 9, 337-353.
- "A Climatology of Intra-monthly Temperature Variability in the Conterminous United States 1951-1980," B.R. Skeeter, K.F. Dewey, and J. Harrington, Jr., Physical Geography, Vol. 9, 99-119.
- "Student Development of Educational Software: Spin-offs from Classroom Use of DIAS," J. Harrington, Jr., T. Miller, R. Lougeay, and K.F. Cartin, Journal of Geography, Vol. 87, 169-173.
- "Integrated NDVI Images for Niger: 1986-1987," J. Harrington, Jr., B.K. Wylie, and C.J. Tucker, Geocarto International, Vol. 3, 37-40.
- 1987 "A Climatology of Mean Monthly Snowfall for the Conterminous United States: Temporal and Spatial Patterns," J. Harrington, Jr., R.S. Cervený, and K.F. Dewey, Journal of Climate and Applied Meteorology, Vol. 26 (8), 897-912.
- "On Defining Remote Sensing, a Response," J. Fussell, D.C. Rundquist, and J. Harrington, Jr., Photogrammetric Engineering and Remote Sensing, Vol. 53 (8), 1096.
- 1986 "On Defining Remote Sensing," J. Fussell, D.C. Rundquist, and J. Harrington, Jr., Photogrammetric Engineering and Remote Sensing, Vol. 52 (9), 1507-1511.
- "The Digital Image Analysis System (DIAS): Microcomputer Software for Remote Sensing Education," J. Harrington, Jr., K. Cartin, and R. Lougeay, Photogrammetric Engineering & Remote Sensing, Vol. 52 (4), 545-550.
- 1985 "A Synoptic Climatology of Depressions in Warm Season Precipitation Profiles from the Upper Middle West," J. Harrington, Jr. and B.J. Brown, Physical Geography, Vol. 6 (2), 186-197.
- "A Synoptic Climatology of Moisture Stress Gradients in the Western Great Lakes Region," J. Harrington, Jr. and J.R. Harman, Physical Geography, Vol. 6 (1), 43-56.
- "Contribution of Satellite Remote Sensing to Analysis of Spatial Variability in Zooplankton Distributions," S.T. Threlkeld and J. Harrington, Jr., Hydrobiologia, Vol. 127, 3-8.
- 1978 "Contrasting Rainfall Patterns in the Upper Middle West," J.R. Harman and J. Harrington, Jr., Annals, Association of American Geographers, Vol. 68 (3), 402-413.

Other Refereed Publications

- 2009 "The Water Budget, Climate Variability, and Climate Impacts Assessment in Northeast Kansas" I. Wilson, J. Harrington, Jr., K. McLauchlan, E. Martinson, and J. Hutchinson Papers of the Applied Geography Conferences, Vol. 32, 189-196.
- 2006 "Climate Change and Persistence in Western Kansas: A Reanalysis," J. Harrington, Jr., Papers of the Applied Geography Conferences, Vol. 29, 49-55.
- 2005 "When Wining is Losing: Arkansas River Interstate Water Management Issues" L. M. Butler Harrington and J. Harrington, Jr., Papers of the Applied Geography Conferences, Vol. 28, 46-51.
- 2004 "Effect of Energy Development and Human Activity on the Use of Sand Sagebrush habitat by Lesser Prairie-chickens in southwest Kansas" R.J. Robel, J. Harrington, Jr., C.A. Hagen, J.C. Pitman, and R.R. Reker, published in the Transactions of the 69th North American Wildlife and Natural Resources Conference, Spokane WA
- "Direct and Indirect Human Contributions to Terrestrial Carbon Fluxes: A Workshop Summary," member of steering committee, National Academies Press
- 2003 "Applying the Hahn Heat Wave Model in Nebraska," E. Bowles and J. Harrington, Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 26, 313-318.
- "Classification of Natural Characteristics and Anthropogenic Stressors in Kansas Watersheds," T.L. Brown, J.M.S. Hutchinson, J. Harrington, Jr. and M. Lu, Papers and Proceedings of Applied Geography Conferences, Vol. 26, 416-423.
- "Detecting Confined Animal Feeding Operations (CAFO) Expansion in Southwest Kansas: A Landsat Thematic Mapper (TM) Approach," R.M. Kroemer, and J. Harrington, Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 26, 452-461.

- "Human Dimensions of Global Change Research in Southwestern Kansas," L.M.B. Harrington, J. Harrington, Jr., M. Lu, D.G. Goodin, D.E. Kromm, and S.E. White, <http://sedac.ciesin.columbia.edu/openmeeting/docs/Harrington.pdf>
- 2002 "Geographic Applications in Non-point Pollution Assessment," J.M. Shawn Hutchinson and John Harrington Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 25, 18-26.
- "Impact of Global Warming on Ecosystems: A Case Study of Biomass at Konza Prairie Biological Station, Jincheng Gao and John Harrington, Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 25, 60-68.
- "Human Adaptability to Environmental Change: Development of an Assessment Protocol," Lisa M.B. Harrington, Max Lu, and John Harrington, Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 25, 269-275.
- "Assessing the Impact of Heat and Humidity on Livestock: Development of an Hourly THI Climatology," John Harrington, Jr. and Erik Bowles, Papers and Proceedings of Applied Geography Conferences, Vol. 25, 311-315.
- 2001 "KATS: A GIS-based Spatial Decision Support Tool for Water Resource Management in Kansas," Max Lu and J. Harrington, Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 24, 106-112.
- "Using AGNPS 98 and GIS to Model Sediment Yield from a Newly Constructed Golf Course," S.K. Starrett, Y. Su, L. Chen, and J. Harrington, in Urban Drainage Modeling Symposium 2001, R.W. Brashear and C. Maksimovic (eds.), American Society of Civil Engineers.
- 2000 "Water Quality Modeling in the Red Rock Creek Watershed, Kansas," L.J. Marzen, J. Harrington, Jr., S.J. Bhuyan, J.K. Koelliker, L.D. Frees, and C.G. Volkman, Papers and Proceedings of Applied Geography Conferences, Vol. 23, 175-182.
- "Assessing Climate Variability in Wisconsin," M.J. McHugh and J. Harrington, Jr., Papers and Proceedings of Applied Geography Conferences, Vol. 23, 72-80.
- "GIS Development for the Colbert Hills Golf Course," J. Harrington, Jr. and N. Leathers, Papers and Proceedings of Applied Geography Conferences, Vol. 23, 183-189.
- 1997 "Global Change in Local Places: Satellite Reflectance Data for Southwest Kansas," J. Harrington, Jr., D. Goodin, and K. Hilbert, Papers and Proceedings of Applied Geography Conferences, Vol. 20, 43-47.
- "Estimating Changes in Greenhouse Gas Emissions for the Natural Gas Industry in Southwest Kansas," G.I. Holden, J. Harrington, Jr., D. Goodin, and S. De, Papers and Proceedings of Applied Geography Conferences, Vol. 20, 20-24.
- "Monitoring Conservation Reserves: A Geographic Approach," N. Leathers and J. Harrington, Jr. Papers and Proceedings of Applied Geography Conferences, Vol. 20, 25-34.
- "Analysis of the Relationship between NDVI and Rainfall in Subhumid Agricultural Areas and the Influence of Environmental Factors," Y. Tao, Z. Chi, J. Harrington, Jr., B. Rundquist, and M.D. Nellis, Papers and Proceedings of Applied Geography Conferences, Vol. 20, 310-318.
- "Analyzing Rangeland Grazing Intensity Using Landsat Imagery - A Case Study in the Southern District of Botswana," Z. Chi, C.E. Bussing, J. Harrington, Jr., D.G. Goodin, Y. Tao, and M.D. Nellis, Papers and Proceedings of Applied Geography Conferences, Vol. 20, 334-341.
- 1996 "Precipitation Seasonality in the Midwest: 1895-1989," K. Hilbert, J. Harrington, Jr., and J.E. Oliver Papers and Proceedings of Applied Geography Conferences, Vol. 19, 71-75.
- "The Reasons for the Seasons" J. Harrington, Jr., in the special issue: Weather and Climate of Nebraska, NEBRASKAland Magazine, Vol. 74, No. 1, 15-25.
- 1995 "Precipitation Vectors: Two Indexes of Precipitation Seasonality," J. Harrington, Jr. and J.E. Oliver, Papers and Proceedings of Applied Geography Conferences, Vol. 18, 103-106.
- "Hyperspectral and Video Remote Sensing of Oklahoma Lakes," J. Harrington, Jr. and R.L. Repic, Papers and Proceedings of Applied Geography Conferences, Vol. 18, 79-86.
- "Application of Satellite Data in the Interpretation of Intertidal Wetlands: Willapa Bay, Washington" C. Berlin and J. Harrington, Jr., Papers and Proc. of Applied Geography Conferences, Vol. 18, 87-96.
- 1994 "Water Temperature, Air Temperature, and Atmospheric Circulation Relationships for Willapa Bay, Washington," J. Harrington, Jr., L.M.B. Harrington, and C.J. Berlin, Papers and Proceedings of Applied Geography Conferences, Vol. 17, 1-7.
- "Assessing Climatic Variations with Climatic Years," J.E. Oliver and J. Harrington, Jr. Papers and Proceedings of Applied Geography Conferences, Vol. 17, 42-49.

- "Relationships of Rio Grande Headwaters Precipitation and Discharge to the Southern Oscillation Index," R.E. Earl and J. Harrington, Jr. Papers and Proc. of Applied Geography Conferences, Vol. 17, 16-24.
- 1993 "Modeling the Expansion of Spartina in the Palix Estuary," J. Harrington, Jr. and L.M.B. Harrington Papers and Proceedings of Applied Geography Conferences, Vol. 16, 50-56.
- 1992 "Spartina Invasion in the Palix Estuary," L.M.B. Harrington and J. Harrington, Jr. Papers and Proceedings of Applied Geography Conferences, Vol. 15, 57-60.
- 1992 "Investigation of Water Quality in Coal Mine Lake Environments of Southwestern Indiana," R. Repic, G.D. Bierly, and J. Harrington, Jr. Papers and Proc. of Applied Geography Conferences, Vol. 15, 49-55.
- 1991 "Oklahoma Lake Assessment Using Multidate Landsat MSS Data," J. Harrington, Jr., F. Schiebe, J. Ross, F. Morrison, and W. Cauthron Papers and Proc. of Applied Geography Conferences, Vol. 14, 175-182.
- "Using the Forest Service as an Information Source for Species Mapping," L. Harrington and J. Harrington, Jr. Papers and Proceedings of Applied Geography Conferences, Vol. 14, 183-188.
- 1989 "Assessing Annual Changes in the Sahelian Vegetation of Niger," J. Harrington, Jr., and B.K. Wylie, Papers and Proceedings, Applied Geography Conferences, Vol. 12, 107-115.
- 1987 "Microcomputer Based Rural Addressing in New Mexico," R.J. Czerniak, W.J. Gribb, and J. Harrington, Jr., Papers and Proceedings, 1987 Applied Geography Conference, Vol. 10, 69-75.
- 1985 "Forest Composition as Affected by Slope Orientation in Hardwood Forests of Northern Lower Michigan," J. Harrington, Jr. and M.E. Neithercut The East Lakes Geographer, Vol. 20, 13-18.
- "Bathymetric Changes in Overholser Reservoir," L.A. Stout, J. Harrington, Jr., H.J. Grimshaw, and G.L. Shapiro, Proceedings, Oklahoma Academy of Science, Vol. 65, 69-72.

Non-Refereed Proceedings Papers, Book Chapters, and Other Articles

- 2009 "Geographic Information Science: Monitoring, Mapping, Modeling, and Decision Making for the Great Green Wall Initiative," J. Harrington, Jr. and R. Ndiaye, Proceeding of the Great Green Wall International Scientific Symposium, 7 pages, (in press)
- 2008 "Across the Curriculum: The GIScience Development Strategy at Kansas State University," J. Harrington, Jr., and S. Hutchinson, 8 pages, published on the ESRI International User Conference CD and also online.
- 2005 "Evaluating Models Predicting Livestock Output Due to Climate Change," T.L. Mader, Q.S. Hu, and J. Harrington, Jr., Final Report, Great Plains Regional Center, National Institute for Global Environmental Change, Eleventh Annual Report, 13 pages.
- 2004 "A Climatology of Hourly THI Values for Livestock Producers," J. Harrington, Jr. And E. Bowles, Preprints, 14th Conference on Applied Climatology, American Meteorological Society (CD ROM)
- "Geographic Information Systems (GIS) Technology," Chapter 15 supporting author, in the NABC Consortium publication Carcass Disposal: A Comprehensive Review, 33 pages, Aug 2004 (CD)
- "Evaluating Models Predicting Livestock Output Due to Climate Change," T.L. Mader, Q.S. Hu, and J. Harrington, Jr., Tenth Annual Report, Great Plains Regional Center, National Institute for Global Environmental Change, p. 87-98.
- "Land Cover Change Detection in an Agricultural Setting: Gray County, KS (1985-2001)" Ryan Kroemer and John Harrington, Jr., Proceedings of the ASPRS Annual Conference, Denver (CD)
- 2003 "Mount St. Helens Recovery Followed with GIS," L. Marzen, LM.B. Harrington, and J. Harrington, Jr. contributing authors, Arc News, Vol. 25(1), 16-17.
- 2002 "Living with Climatic Variability and Potential Global Change: Climatological Analyses of Impacts on Livestock Performance," G.L Hahn, T.L. Mader, J. Harrington, J. Nienaber, and K.L. Frank, Preprints, 15th Conference on Biometeorology and Aerobiology, Am. Meteorological Soc., p. 45-49.
- "Development of Hourly THI Climatology Products for Livestock Producers in the MINK Region," John Harrington, Jr. and Erik Bowles, Preprints, 15th Conference on Biometeorology and Aerobiology, American Meteorological Society, p. 158-161.
- "Climate Stability in the Great Plains," J. Harrington, Jr., and M. James Wood, Preprints, 13th Conference on Applied Climatology, American Meteorological Soc. p. 236-237.
- 2001 "Effect of Cell Size on AGNPS Predictions," S.J. Bhuyan, K.R. Mankin, J.K. Koelliker, L. Marzen, and J. Harrington, Jr., Paper No. 01-2002, ASAE International Meeting, Sacramento, CA. 17 pages.
- "Potential Climate Change Effects on Warm-Season Production of Livestock in the United States," K.L. Frank, T.L. Mader, J. Harrington, Jr., G.L. Hahn, M.S. Davis, and J. Nienaber, Paper No. 01-3042, ASAE International Meeting, Sacramento, CA 28 pages.

- "Climate Change Effects on Livestock Production in the Great Plains," K.L. Frank, T.L. Mader, J. Harrington, Jr., G.L. Hahn, and M.S. Davis, in Livestock Environment VI, Proceedings of the Sixth International Symposium, Louisville, KY, p. 351-358 in ASAE Publication 701P0201.
- 2000 "Use of Satellite Imagery to Determine Land Cover Input Variables in an AGNPS Water Quality Model," L.J. Marzen, J. Harrington, Jr., S.J. Bhuyan, and J.K. Koelliker, Paper No. 002200, ASAE International Meeting, Milwaukee, WI. 7 pages.
- "Water Quality Assessment for Cheney Reservoir Watershed," S.J. Bhuyan, J.K. Koelliker, L.J. Marzen, and J. Harrington, Jr., Paper No. 002197 ASAE International Meeting, Milwaukee, WI. 18 pages.
- 1999 "Global Change in Local Places," Lisa Harrington, Douglas Goodin, John Harrington, Jr., David Kromm, Stephen White, 1998-99 Annual Report of the Great Plains Regional Center-NIGEC. GPRC 99-01, University of Nebraska-Lincoln, Inst. of Agriculture and Natural Resources p. 95-101.
- "Variations in Greenhouse Gas Emissions Across Western Kansas," J. Harrington, Jr., D. Goodin, and B. Witcher, Preprints, Tenth Global Change Symposium, American Meteorological Soc. p. 458-461. Also published as "Variations in Greenhouse Gas Emissions Across Western Kansas," J. Harrington, Jr., D. Goodin, and B. Witcher, Preprints, 11th Conference on Applied Climatology, American Meteorological Soc. p. 398-401.
- "Kite Aerial Photography for Forest Assessment at Fort Leavenworth," J.S. Aber, J. Harrington, and M.C. Nowak, Technical Papers, 1999 ASPRS Annual Meeting p. 484-490.
- 1998 "A Climatology of Changing Spring Dew Point Temperatures: Dodge City, Kansas," J. Harrington, Jr., Preprints, Ninth Global Change Symposium, American Meteorological Soc. p. 114-116.
- "Regional and Local Variation in NDVI Response to Climatic Variables in Kansas," B.C. Rundquist and J. Harrington, Jr., Technical Papers, 1998 ASPRS Annual Meeting p. 579-591.
- 1997 "Modeling Spartina in Willapa Bay," J. Harrington, Jr., L.M.B. Harrington, and C.J. Berlin, Proceedings, Second International Spartina Conference, 1997, 23-26.
- 1996 "Hyperspectral Remote Sensing of Water Quality," J. Harrington, Jr. and R.L. Repic, pages XXII-1 to XXII-6 in Hydrology Data Report WASHITA '94, P. Starks and K. Humes (eds.), NAWQL 96-1, USDA Agricultural Research Service, Durant, OK.
- "Climate and Vegetation in Central North America: Natural Patterns and Human Alterations" J. Harrington, Jr. and J.R. Harman, p. 135-148 in Conservation of Great Plains Ecosystems: Current Science, Future Options, S.R. Johnson and A. Bouzaher, eds., Kluwer Academic Pubs., Dordrecht, The Netherlands.
- 1995 "Integrating Airborne Videography and Close Range Remote Sensing for Surface Water Quality Investigation," R.L. Repic, J. Harrington, Jr., F.R. Schiebe, J.H. Everitt, D.E. Escobar, and M.R. Davis, Proceedings 15th Biennial Workshop on Color Aerial Photography and Videography in the Resource Assessment, 172-181
- "Satellite-Based Mapping of the Intertidal Zone: Willapa Bay, Washington," J. Harrington, Jr. and C.J. Berlin, Proceedings, Third Thematic Conference on Remote Sensing for Marine and Coastal Environments Vol. I, 677-686.
- 1993 "Willapa Bay, Washington: Environmental Concerns and Natural Resources Management," L.M.B. Harrington and J. Harrington, Jr. In: Geographic Perspectives on the Social and Economic Restructuring of Rural Area; Proc. of the IGC Commission on Changing Rural Systems p. 162-169.
- "Grassland Resource Management in Niger," J. Harrington, Jr., and B. Wylie, Monitor, Vol. 5 (2), 2, 10.
- "Lake Chicot: A Clean Bill of Health," Landsat Data Users Notes, Vol. 8 (1), 6.
- 1992 "Landsat MSS Studies of Chlorophyll in Sediment Dominated Lakes," J.C. Ritchie, F.R. Schiebe, C.M. Cooper, and J. Harrington, Jr. Intl. Geoscience and Remote Sensing Symposium, Vol. II, 1514-1517.
- 1991 "A Method for Mapping the Spatial Distribution of Suspended Sediments within Lakes or Reservoirs using Landsat Multispectral Scanner Data," J. Harrington, Jr., F. Schiebe, and J. Ross Proceedings, Remote Sensing and GIS Applications to Nonpoint Source Planning, 103-111.
- 1990 "Famine," J. Harrington, Jr., The World Book Encyclopedia, Vol. 7:27-29.
- "Deforestation in Equatorial Africa: An Assessment Based on Analysis of Multidate Landsat MSS Data," S.M. Berta, P.W. Mausel, J. Harrington, Jr., and R. Graham, Proceedings, ISPRS Mid-Term Symposium: Global and Environmental Monitoring, 247-253.
- "Rural Addressing and Geographic Information Systems," J. Harrington, Jr., Proceedings, Indiana GIS Conference, 126-131.

- 1989 "Monitoring Lake Recovery Using the Landsat MSS," J. Harrington, Jr., F.R. Schiebe, and F.E. Morrison, in: Regional Characterization of Water Quality, S. Ragone (ed.), International Assoc. Hydrologic Sciences, Pub. No. 182, 143-150.
- "AVHRR Assessment of Pastoral Biomass in the Sahel of Niger," J. Harrington, Jr. and B.K. Wylie, Technical Papers, 1989 ASPRS-ACSM Annual Meeting, Vol. 3 (Remote Sensing), 258-265.
- 1989 "Remote Sensing Training for International Students," J. Harrington, Jr. in Current Trends in Remote Sensing Education, M.D. Nellis, et al., eds., 175-177.
- 1988 "Weather and Climate Effects on the Normalized Difference Vegetation Index," J. Harrington, Jr., and D.H. Gregor, Jr., ASPRS Technical Papers, 1988 ASPRS-ACSM Fall Convention, 207-213.
- "Climate," J. Harrington, Jr., World Book Encyclopedia, Vol. 4, 676-680.
- "Drought," J. Harrington, Jr., World Book Encyclopedia, Vol. 5, 352.
- 1987 "Remote Sensing of Suspended Sediments of Lake Chicot, Arkansas," F.R. Schiebe, J. Harrington, Jr., and J.C. Ritchie, Proceedings of the Sixth Corps of Engineers Remote Sensing Symposium, 9 pp.
- "Integration of Aerial Photographic Interpretation and a Microcomputer Based GIS: The Dona Ana County, New Mexico, Land Use Project," W.J. Gribb, R.J. Czerniak, and J. Harrington, Jr., Proceedings of the Conference on Spatial Data Systems for Management, November 5-6, 1987, Tucson, AZ, 52-58.
- 1986 "A Microcomputer-Based GIS for Rural Addressing," J. Harrington, Jr., W.J. Gribb, and R.J. Czerniak, Proceedings, Conference on Remote Sensing and Geographic Information Systems in Management, Remote Sensing Center, Tucson, AZ, 26-29.
- 1984 "Microcomputer-Based Digital Image Processing: A Tutorial Package for Exploration Geologists," J. Harrington, Jr. and K.F. Cartin, in Proceedings, Third Thematic Conference, Remote Sensing in Exploration Geology ERIM, Ann Arbor, MI, 939-947.
- "Summary of Remote Sensing Studies on Lake Chicot," J.C. Ritchie, F.R. Schiebe, and J. Harrington, Jr., in Limnological Studies of Lake Chicot, Arkansas J.F. Nix and F.R. Schiebe, eds., Ouachita Baptist Univ., Arkadelphia, AR, pp 62-71.
- "Techniques for Digital Enhancement of Landsat MSS Data Using an Apple II+ Microcomputer," J. Harrington, Jr. and K.F. Cartin, in Extraction of Information from Remotely Sensed Images P.F. Hopkins, ed., Am. Soc. of Photogrammetry, Falls Church, VA, 20-27.
- 1982 "The Effects of Seasonal Differences in Climatic Conditions on Landsat Spectral Signatures and Associated Land Cover Classification," in Remote Sensing: An Input to Geographic Information Systems in the 1980's, Pecora VII Symposium, 262-267.
- 1981 "Low-cost Digital Image Processing at the University of Oklahoma," CORSE-81, The 1981 Conference on Remote Sensing Education, NASA Conference Publication 2197, 108-112.
- 1980 "Low Cost Satellite Digital Image Analysis of Surface Waters," C. Barb, Jr., and J. Harrington, Jr., Proceedings, Symposium on Surface-Water Impoundments, 677-685.
- "Mapping Vegetation Association Boundaries with Landsat MSS Data: An Oklahoma Example," J. Harrington, Jr., and C.W. Dunn, Jr., Technical Papers, 46th Annual American Society of Photogrammetry Convention, 270-281.
- 1977 "In Support of Synoptic Climatology," J.R. Harman and J. Harrington, Jr., in Applications of Geographic Research, H. A. Winters and M. K. Winter, eds., 97-111.

Educational Media

- 2008 Environmental Science for Students (JWM Productions)
- 2005 Geography for Students (JWM Productions): Physical Systems
 Geography for Students (JWM Productions): Geographic Perspectives The United States of America
 Geography for Students (JWM Productions): Environment & Society
 Geography for Students (JWM Productions): Places & Regions

Reviews/Commentaries

- 2007 "Take a look at the data" Topeka Capital Journal, Sep 19, p. 4A
- 1996 "Atlas of Oklahoma Climate" a book review by J. Harrington, Jr. Great Plains Research, Vol. 6(1): 118-119.
- 1993 "Overkill, Overkill" J.E. Oliver and J. Harrington World Climate Review Vol. 2(1), 3.
- 1993 Environmental Impact Statement (State of Washington) on Noxious Emergent Plant Management -- a 2 page assessment by John Harrington, Jr. and Lisa M.B. Harrington (with a relevant manuscript appended).

Monographs and Reports

- 2000 Evaluation of AGNPS Modeling in Cheney Lake NPS Management, J.K. Koelliker, S.J. Bhuyan, J. Harrington, Jr., and L.J. Marzen, Kansas Water Office, Contract No. 00-117, 104 pages.
- 1994 FUNDAMENTALS OF GIS: BASIC PRINCIPLES AND EXAMPLE APPLICATIONS, J. Harrington, Jr., Prepared for the Fourth Indiana GIS Conference, Indianapolis, IN, 38 pp.
- 1993 FUNDAMENTALS OF GIS: BASIC PRINCIPLES AND EXAMPLE APPLICATIONS, J. Harrington, Jr., and Patrick J. Bresnahan, Prepared for the Third Indiana GIS Conference, Indianapolis, IN, 31 pp.
- 1989 Evaluation de la Production Fourragere, Campagne 1989, M. Bagoudou, I. Denda, F. Sanoussi, B.K. Wylie, and J.Harrington, Jr., Niamey, Republic of Niger, Minisetere de l'Agriculture et de l'Elevage, 33 pp.
- 1988 La Production de Biomasse dans la Zone Pastorale du Niger: Systeme D'Alerte Precoce, Rapport 1988, A. Nababa, B. Maidaji, D. Issa, B.K. Wylie, and J. Harrington, Jr.; Ministry of Animal and Water Resources, Government of Niger, 18 pp.
- 1987 Pasture Assessment Early Warning System: Research on Satellite-Based Pasture Assessment Implementation Techniques, B.K. Wylie, J. Harrington, Jr., R. Pieper, A. Maman, and D. Issa; Niger Integrated Livestock Project, Government of Niger/Tufts University/USAID, 32 pp.
- 1987 Early Warning System Preliminary Report: Pasture Production in the Central and Eastern Pastoral Zones of Niger, B.K. Wylie, J. Harrington, Jr., B. Maidaji, and D. Issa; Integrated Livestock Production Project, Government of Niger/Tufts University/USAID, 29 pp.
- 1984 "Quartermaster Creek Watershed Land Cover Types: An Analysis of Current Conditions and Recent Change," S.M. Berta and J. Harrington, Jr., in Archaeology of the Mixed Grass Prairie, Phase I: Quartermaster Creek, T.G. Baugh ed., Oklahoma Archaeological Survey, Archaeological Resources Survey Report No. 20, Norman, OK, 33-49.
- 1982 Drought Patterns in Oklahoma and the Great Plains, Operational Weather Modification, Vol. 8, Oklahoma Climate Survey, Norman, OK, 58 pp.
- 1983 A Low-Cost Landsat Digital Technology Training Package, U.S. Department of Interior, Bureau of Mines, Report No. OSM MRI-80-OK-02, 49 pp.
- 1981 A Survey of Prehistoric and Historic Sites in the Honey Springs Area, McIntosh and Muskogee Counties, Oklahoma, C. Yates, D. Wyckoff, T.G. Baugh, and J. Harrington, Jr.; Oklahoma Archaeological Survey, Archaeological Resource Survey Report No. 11; 170 pp.
- 1980 "Low Cost Satellite Digital Image Analysis of Surface Waters," C. Barb, Jr., and J. Harrington, Jr.: Section V of EPA Final Report for Grant No. S-006181-01-0, Classification of Oklahoma Reservoirs Using Landsat Multispectral Scanner Data, H.J. Grimshaw, PI.
- 1975 Wildlife Habitat Change and Seasonal Cultivation, D.A. Brown, J. Harrington, Jr., T. Isley, D. Soehren, J.M. Smiley, and E. Stern; Minnesota Lands Management Info. System, Pub. No. 5012; 20 pp.

Lab Manuals

- 1999 - 2009 Environmental Geography I Lab Manual, J. Harrington, Jr., D. Goodin, L. Harrington, and C. Martin, Kansas State University, revised every 6 months
- 1999 - 2009 Environmental Geography II Lab Manual, J. Harrington, Jr., L. Harrington, and C. Martin, Kansas State University, revised every 6 months
- 1995 - 2000 Remote Sensing of the Environment, Laboratory Manual, J. Harrington, Jr. and M.D. Nellis, Kansas State University, annual revisions

Graduate Advisees - Ph.D.

- 2009 Bowles, Erik H., Ph.D. Dissertation: "Classifying Heat Waves in the United States"
- 2001 Leathers, Nancy J., Ph.D. Dissertation: "A Furnace Wind Climatology for the Central United States."
- Marzen, Luke J., Ph.D. Dissertation; "An Analysis of Vegetation Change and Rehabilitation Approaches after the 1980 Eruption of Mount St. Helens " (L.M.B. Harrington, Co-advisor)
- 2000 Hutchinson, J.M. Shawn, Ph.D. Dissertation: "Estimating Tallgrass Prairie Soil Moisture Using Active Satellite Microwave Imagery and Optical Sensor Inputs."
- 1994 Yan, Yuk. Y., Ph.D. Dissertation: "Spatial and Temporal Analyses of Weather Stress Indicies of Indiana." (J.E. Oliver, Co-advisor)
- 1993 Repic, Randall L., Ph.D. Dissertation: "An Assessment of Spectral Response Curves for Coal Strip Mine Lakes in Southwestern Indiana."

Graduate Advisees - M.A.

- 2009 Burkitt, Jeffrey, "Alternative Futures for the Northern Flint Hills: Scenarios Provided by Hydrologic Modeling"
- 2008 Patterson, Judd, "An Analysis of Spring Bird Migration Phenology in Kansas"
Peterson, Rorik, "GIS-Based Scenarios for the Reorganization of Kansas Counties"
- 2006 Rice, Charlene, "Analysis of Growth and Land Use Changes in Topeka, Kansas"
- 2004 Bowles, Erik H., "An Applied Climatology of Heat Stress Events in the Central United States: A Spatial and Temporal Assessment Using the Temperature-Humidity Index."
- 2003 Zimney, Michael S., "Hierarchical Diffusion of Geographic Information Systems in Kansas"
- 2002 Wood, M. James, "Spatial and Statistical Analysis of Palmer's Climatic Instability Index"
- 2002 Kroemer, Ryan M., "Assessing Aquifer Vulnerability in Phelps County, Nebraska and Finney County, Kansas Using DRASTIC and LPI Indices"
- 2001 Frank, Katrina L., "Potential Effects of Warm Season Climate Change on Livestock Production in the United States"
- 1999 Guinotte, John, "A Model for Predicting Coral Reef Habitats in the Tropical Western Atlantic and Eastern Pacific"
Blocker, James, "An Examination of Remotely Sensed Derived Vegetation Indexes and Maneuver Damage at Fort Riley, Kansas"
- 1998 Holden, Gerold, I., Jr., "Impact of Increased Atmospheric CO₂ on the Greening of the Sand-Sage Prairie, Finney County Kansas"
- 1997 Hutchinson, J.M. Shawn "RADAR Backscatter - Soil Moisture Relationships over Tall Grass Prairie"
- 1996 Wardlow, Brian D., M.A. Thesis: "Temporal Monitoring of Suspended Sediment Patterns Using Landsat Thematic Mapper Imagery - A Study of Tuttle Creek Reservoir, Kansas"
- 1994 Doering, David. E., M.A. Thesis: "Geographic Perspectives of Sand Dune Stability at the Indiana Dunes National Lakeshore"
Peters, W. Ted, M.A. Thesis: "An Evaluation of Special Transforms for Improving the Vegetation Classification for the Gap Analysis Project in Indiana."
- 1994 Foster, Scott P., M.A. Thesis: "The Utilization of Two Raingauge Networks for Modeling Flooding Along the Little Washita River, October 17-21, 1983."
- 1992 Bierly, Gregory D., M.A. Thesis: "A Climatology of Transition Season Colorado Cyclones: 1961-1990."
- 1991 Johnson (DeSmidt), Amy M., M.A. Thesis: "Principal Component Analysis of Landsat TM Data for Water Quality Assessment."
- 1984 Walsh, Michael F., M.A. Thesis: "Spatial and Temporal Transfer of Classification Algorithms Developed for Landsat MSS Digital Data."
Cartin, Kevin F., M.A. Thesis: "The Digital Image Analysis System: Microcomputer Software For Digital Processing of Landsat Data."
Brown, Brock J., M.A. Thesis: "A Synoptic Climatology of Bimodality in Warm Season Precipitation Profiles From Central North America."
- 1981 Barrios, Eduardo A., M.A. Thesis: "A Multivariate Statistical Taxonomy of the Climate of Venezuela."
Cantwell, Hal D., M.A. Thesis: "The Changing Phytosociology of the Oak-Hickory Forest of the Ozark Mountains of Oklahoma."
- 1980 Dunn, Charles W., Jr., M.A. Thesis: "Identifying the Prairie-Forest Transition Using Remote Sensing: A Comparative Analysis."

Courses Taught - Undergraduate Level

Survey of Geography, World Regional Geography (New Mexico State)
Physical Geography (Oklahoma, Nebraska, Indiana State)
Environmental Geography, Human Dimensions of Global Change, Climatology (Kansas State)
Meteorology/Weather and Climate (Oklahoma, New Mexico State, Indiana State)
Earth From Space: Remote Sensing (Indiana State)

Courses Taught - Advanced Undergraduate/Graduate Level

Capstone Class (Kansas State - Natural Resource & Environmental Science Secondary Major)
Synoptic Meteorology (Nebraska, New Mexico State)
Dynamic and Synoptic Climatology (Oklahoma, Indiana State)

Physical Climatology, Regional Climatology (Nebraska)
 Field Techniques, Regional Field Study (Oklahoma, New Mexico State, Indiana State)
 Geography of Canada (Michigan State)
 Remote Sensing (Oklahoma, New Mexico State, Indiana State, Kansas State)
 Remote Sensing: Computer Techniques (Indiana State)
 Computer Cartography (New Mexico State)
 Plant Geography (Oklahoma)
 Human Impacts on Physical Environments (Oklahoma, Indiana State)

Graduate Seminars Offered

History and Philosophy of Geography, Impacts of Climate Change, Local Expression of Global Change, Climate and Vulnerability, Land Change Science, Global Environmental Change, Advanced Remote Sensing, Human Impact on the Environment, Advanced Spatial Analysis, Climate of the Great Plains, Great Plains Climate Variability and Change, Advanced Environmental Geography, Graduate Colloquium II (Kansas State)
 Applied Climatology, Remote Sensing of the Atmosphere and Hydrosphere, Remote Sensing - Advanced Techniques, Climatic Change, GIS, Natural Resource Applications of GIS (Indiana State)
 Research Design (New Mexico State)
 Statistical Climatology, Climatic Geomorphology, Computer Graphics (Oklahoma)

Research Grants

FEB 2008 - JAN 2011	USDA-CSREES-NRI	
	Developing a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains	\$596,414
	Co-Principal Investigator: Doug Goodin	
JUN 2007	KSU Res. & Ext. Mini-Grants	
	Quantifying the Impact of Prescribed Rangeland Burning on Regional Air Quality in the Kansas Flint Hills	\$ 54,000
	Co-Principal Investigator: Jay Ham	
SEP 2006 - AUG 2008	Foreign Military Studies Office	
	Global GIS Place-based Field Research in the Antilles	\$126,716
APR 2006 - MAR 2009	NSF EPSCoR	
	Building Research Infrastructure to Address Grand Challenges in Ecological Forecasting	\$9,250,000
	Co-Principal Investigator: Walter Dodds	
OCT 2005 - AUG 2007	Great Plains CESU	
	NPS Lidar Mapping Project	\$80,000
JUL 2005 - JUN 2009	K-State Targeted Excellence	
	Geospatial Technology Infrastructure Enhancement Program: Phase II	\$550,000
	Objective: expand the GIS research, teaching, and outreach capabilities at K-State	
	Co-Principal Investigator: Shawn Hutchinson	
JUL 2005 - JUN 2008	K-State Targeted Excellence	
	Strategically Positioning K-State to Benefit from NSF's CUAHSI/NEON Programs	\$381,790
	Co-Principal Investigator: David Steward	
JUL 2004 - JUN 2009	K-State Targeted Excellence	
	GIScience Infrastructure Enhancement Project	\$330,000
	Objective: expand the GIS research, teaching, and outreach capabilities at K-State	
	Co-Principal Investigator: Shawn Hutchinson	
JUL 2004 - JUN 2009	K-State Targeted Excellence	
	Food Safety and Security:	\$2,000,000
	Protecting America's Health, Agricultural Infrastructure, and Economy	
	Co-Principal Investigator: Curtis Kastner	(\$77,893 for Geography)
OCT 2001 - SEP 2002	USDA NRCS	
	SSURGO Certification of Soil Surveys	\$25,000
	Objective: produce certified 1:24,000 digital soil surveys	
	Co-Principal Investigator: Shawn Hutchinson	
SEP 2001 - JUN 2004	National Institute for Global Environmental Change	

Evaluating Models Predicting Livestock Output Due to Climate Change	\$180,000
Objective: evaluate the quality of models that relate livestock production to climate	
Principal Investigator: Terry Mader (Univ. of Nebraska)	
MAY 2001 - JUL 2001 Kansas Dept. of Health and Environment (EPA flowdown)	
KATS 14 Statistical Review	\$7,447
Objective: statistical assessment of variables in the KATS system	
Principal Investigator: Max Lu	
DEC 2001 - NOV 2004 NASA EPSCoR	
HYSPIRE: Hyper-Resolution Remote Sensing of Kansas Rural Environments	\$716,100
Objective: examination of hyper-spectral and hyper-spatial imagery for Kansas	
Principal Investigator: Doug Goodin	
AUG 2000 - JUL 2005 NSF	
Infrastructure to Develop Human-Environment Regional Observatories	\$290,000
Objective: to examine local vulnerability of land use/cover to climate change	
Principal Investigator: Steve White	
APR 2000 - DEC 2002 Kansas Water Office	
Smoky Hill River Water Quality Improvement Program	\$96,597
Principal Investigator: Kyle Mankin (Bio. and Agr. Engineering)	
JUN 2000 Kansas Dept. of Health and Environment (EPA flowdown)	
Kansas Action Targeting System 14 Regression Analysis Training	\$8,365
Principal Investigator: Max Lu	
JUL 1999 - JUN 2000 National Institute for Global Environmental Change	
Projected Global Change Effects on Livestock Performance	\$12,000
Objective: examine impacts of global change scenarios on livestock production	
Principal Investigator: Terry Mader (Univ. of Nebraska)	
NOV 1998 - JUN 2000 Colbert Hills Environmental Research Team	
GIS Development for Colbert Hills Golf Course Area	\$6,000
AUG 1998 - JUN 2000 Kansas Water Office	
Evaluation of AGNPS Modeling in Cheney Lake NPS Management	\$60,012
Objective: use remote sensing, GIS, and watershed modeling to assess BMPs in Cheney Lake area.	
Principal Investigator: Prasanta Kalita (Year 1), Jim Koelliker (Year 2)	
JAN 1997 - DEC 2002 NASA EPSCoR	
Spatial and Spectral Scale Dimensions for Modeling Rural Resource Systems:	
Projections for Global Change	\$725,611
Principal Investigator: M. Duane Nellis (initially); J. Harrington, Jr. (Years 2 and 3), D. Goodin (Years 4 and 5)	
JUL 1996 - JUN 1999 National Institute for Global Environmental Change	
Global Change in Local Places	
Objective: assess the local contribution to global change.	\$118,000
Principal Investigator: Steve White (initially); J. Harrington, Jr. (Year 2); L. Harrington (Year 3)	
JAN 1996 - DEC 1998 NASA (through the AAG)	
Global Change in Local Places	\$165,000
Objective: assess the local contribution to global change from natural and social science perspectives.	
Principal Investigator (K-State): Steve White (initially); J. Harrington, Jr. (Years 2 and 3)	
MAR 1996 - DEC 1996 Association of American Geographers (Anne White Fund)	
Evaluation of Vegetation Change in the Vicinity of Mount St. Helens	\$ 1,000
Principal Investigator: Lisa MB Harrington	
NOV 1995 - JUN 1996 Kansas State University, Office of Research and Sponsored Programs	
Assessing Vegetation Change at Mount St. Helens	\$ 1,600
Objective: examine a 15 year history of Landsat MSS data for areas impacted by the eruption	
Principal Investigator: Lisa MB Harrington	
JUL 1995 - JUN 1996 Kansas State University, Office of Research and Sponsored Programs	
Landsat Satellite Assessment of Water Quality: Temporal and Spatial Variations in Tuttle Creek Reservoir	\$ 1,600
Co-investigators: Drs. Douglas G. Goodin and M. Duane Nellis	

JUN 1993 - AUG 1993	Indiana State University Research Committee Assessment of Regional and Temporal Climatic Variability Using the 'Climatic Year' Concept" Co-investigator: Dr. John Oliver	\$ 3,000
MAY 1992 - DEC 1992	Space Remote Sensing Center/ITD, Stennis Space Center, MS The Use of Computer Analyzed Multitemporal SPOT Data of Delaware County, IN for Implementation into the Wetlands Rectification and Sampling Project Objective: Assess wetlands and forested wetlands using multirate SPOT data. Principal Investigator: Paul W. Mausel; my task was selection of digital image analysis methods.	\$ 8,000
MAY 1989 - DEC 1991	The Government of Niger Integrated Livestock Production II Objective: Continued educational and technical support for the satellite-based pasture assessment within the Ministry of Animal Resources. Co-investigators: R. Pieper and B. Wylie, NMSU Animal and Range Science	\$ 447,344
OCT 1988 - NOV 1988	The Government of Niger 1988 Niger Pasture Production Preliminary Report Objective: Analysis of NOAA satellite data for pasture biomass production estimates in Niger. Co-investigators: R. Pieper and B. Wylie, NMSU Animal and Range Science	\$ 27,297
MAY 1988 - FEB 1990	Western Regional Climate Center Climate Validation Project Objective: Analysis and correction of errors in coop observer temperature data record. Co-investigator: R.A. Earl, NMSU Earth Sciences	\$ 9,200
JUL 1987 - DEC 1988	USAID (Tufts University and New Mexico State University) Niger Integrated Livestock Production Project Objective (remote sensing): development of a satellite-based method for monitoring space and time variations in Niger pasture conditions. Principal Investigator: R. Pieper, NMSU Animal and Range Science	\$ 451,081
DEC 1987 - NOV 1988	Dona Ana County, New Mexico Dona Ana County, New Mexico, Aerial Photography Project Objective: Contract aerial photography of the county with annotation of major reference points. Co-Investigator: W.J. Gribb, NMSU Earth Sciences	\$ 60,000
AUG 1987 - SEP 1987	US Forest Service - Gila National Forest Road Inventory for US Forest Service Objective: Provide NM State Plane coordinates for several roads. Co-Investigator: W.J. Gribb, NMSU Earth Sciences	\$ 200
JUL 1987 - AUG 1987	US Bureau of Land Management Data Base Creation for BLM Objective: Provide State Plane coordinates for roads, pipelines, and railroads in Chaves Co., NM. Co-Investigator: W.J. Gribb, NMSU Earth Sciences	\$ 700
MAY 1987 - DEC 1987	Sandoval County, NM A Computer-Based Mapping and Rural Addressing System for Sandoval County, New Mexico Objective: Rural addressing and mapping system for Sandoval Co., NM Co-Investigator: W.J. Gribb, NMSU Earth Sciences	\$ 14,908
JAN 1987 - FEB 1988	Dona Ana County, New Mexico Land Use and Digital Mapping of Dona Ana County, New Mexico with Special Emphasis on the Rio Grande Valley Objective: Computer-based land use mapping based on interpretation of JUL 1986 aerial photos. Co-Investigators: W.J. Gribb and R.J. Czerniak, NMSU Earth Sciences	\$ 55,108
OCT 1986 - SEP 1987	College of Arts & Sciences, New Mexico State University Satellite Remote Sensing of Water Quality Changes, Lake Chicot, Arkansas Objective: A study of ten years of coincident water quality and Landsat MSS data for Lake Chicot, Arkansas.	\$ 4,000
OCT 1986 - SEP 1988	National Aeronautics and Space Administration Retrospective Studies of the Use of Landsat and AVHRR Data in Hydrologic Models for Land-Atmosphere Analysis Objective: Techniques for transforming satellite data for the SWRRB hydrologic model.	\$ 226,120

Principal Investigator: C. Duchon, O.U. Meteorology.	
SEP 1986 - DEC 1986	National Park Service
	National Park Service - ANTIETAM: Themes \$ 2,478
	Objective: Computer-based thematic data file development for Antietam Battlefield.
	Co-Investigator: W.J. Gribb, NMSU Earth Sciences
JUN 1982 - AUG 1982	Junior Faculty Summer Research Fellowship, Univ. of Oklahoma
	Assessment of Temporal Variability in Climatic Classification \$ 3,500
	Objective: To examine the relative importance in climatic classification of year-to-year fluctuations in weather conditions.
OCT 1981 - SEP 1983	Oklahoma State Historical Society
	Quartermaster Creek Cultural Resource Inventory \$ 9,891
	Objective: Evaluation of the multiple cultural resources in the Quartermaster Creek Watershed.
	Principal Investigator: D. Wyckoff, Oklahoma Archaeological Survey; my responsibilities were to make historical land cover maps through the use of remote sensing.
OCT 1980 - DEC 1981	USDA, Southern Plains Watershed and Water Quality Lab
	Landsat Data Analysis of Lake Chicot, Arkansas \$ 5,063
	Objective: Extraction and analysis of Landsat MSS data for evaluation of water quality of Lake Chicot, Arkansas.
FEB 1980 - JAN 1981	Oklahoma State Historical Society
	Honey Springs Cultural Resource Inventory \$ 18,857
	Objective: Inventory and evaluation of cultural resources for resource development.
	Principal Investigator: D. Wyckoff, Oklahoma Archaeological Survey
AUG 1979 - SEP 1980	E.P.A., Oklahoma Water Resources Board
	Clear Lake Project \$ 10,991
	Objective: Landsat-based trophic status classification of Oklahoma's major lakes.

Teaching Oriented or Other Grants and Contracts

FALL 2007	Kansas NASA Space Grant
	Satellite Image Analysis for Ecological Forecasting (Undergraduate Scholarship for Iris Wilson) \$5,500
JAN 2007 - JAN 2008	Kansas NASA Space Grant
	Ecological Forecasting \$12,802.50
AUG 2006 - APR 2007	Kansas NASA Space Grant
	Improving the Research Experience of Geographic Information Students at Kansas State Univ \$15,000
JAN 2005 - JUN 2005	KSU Office of Research, FDA
	Travel assistance for research development trip to Senegal \$ 875
JUL 2004 - DEC 2004	KSU Office of Research, FDA
	Travel assistance for attending 30 th Congress of the IGU \$ 1,500
MAY 2002 - APR 2006	NSF
	The HERO REU Site \$66,864
	Principal Investigator: Brent Yarnal (Penn State)
AUG 2000 - JUL 2001	NSF
	REU Supplement: Infrastructure to Develop Human-Environment Regional Observatories \$5,665
	Objective: provides funding to support a research experience for an undergraduate student
SEP 1997 - AUG 2000	NASA Graduate Student Fellowship
	Estimating Soil Moisture Over Tall Grass Prairie Using ERS-2 SAR \$66,000
	NASA Fellowship for J.M. Shawn Hutchinson
AUG 1996 - JUL 1999	USDA Cooperative State Research, Education, and Extension Service
	Geographic Information Systems in Agricultural Science Education \$ 68,000
	Principal Investigator: John Havlin (replaced by Mickey Ransom and Mark Schrock): I contributed lectures on agricultural applications of remote sensing and GIS.
JAN 1993 - JUN 1995	NSF Science Education
	In-Service Program in Physical Geography: Introductory, Advanced and Outreach Models \$ 302,000
	Objective: to teach physical geography (weather and climate, environmental remote sensing, and natural hazards) to Indiana high school teachers.
	Principal Investigator: William Dando

NOV 1991	USDA Agricultural Research Service Training Workshop in Remote Sensing and Raster GIS Objective: A four-day workshop on use of ERDAS software for watershed management issues.	\$ 1,800
APR 1990	GeoGraphix, Denver, CO GeoGraphix Exploration System Objective: The GeoGraphix Exploration System, a GIS and database management system for geologic exploration, was donated for my research and teaching.	\$ 18,000
JUL 1987 - AUG 1987	Development Associates, Inc. International Workshop on Remote Sensing Objective: Geographic technique training for Mexican government officials. Co-Investigators: W.J. Gribb and R.J. Czerniak, NMSU Earth Sciences	\$ 6,000
APR 1985	Research Council, University of Nebraska-Lincoln Faculty Travel Grants Objective: Travel funding - 1986 AAG and 1986 SWARM, AAAS Meetings	\$ 700
SEP 1984	Research Council, University of Nebraska-Lincoln Faculty Travel Grant Objective: Funding for 1984 NCGE Meetings in Toronto, Canada	\$ 416
SEP 1984	Research Council, University of Nebraska-Lincoln Visiting Research Scholar Objective: Funding for the visit of Dr. Jay R. Harman	\$ 590
JAN 1983	Research Council, University of Oklahoma Upgrading Computer-based Remote Sensing Capabilities at the University of Oklahoma Objective: Funding for purchase of Landsat Thematic Mapper Data	\$ 250
OCT 1982 - APR 1984	Oklahoma Humanities Committee, NEH An Interpretive Exhibition of the Cultural Landscapes of the Oklahoma Panhandle Principal Investigator: A.H. Smith, Landscape Architecture	\$ 45,349
OCT 1980 - MAY 1981	Faculty Research Grants, University of Oklahoma Microcomputer Cartographic Applications in Synoptic Climatology Objective: Acquisition of microcomputer cartography software.	\$ 600
JUL 1980 - JUN 1981	NASA, Earth Resources Laboratory, N.S.T.L. Landsat Workshop Program Objective: Seminars and a workshop for state and local government officials.	\$ 12,000
OCT 1979 - DEC 1980	U.S.D.I.-O.S.M., Mining and Mineral Resource Research Institute A Low-Cost Digital Landsat Technology Training Package Objective: Development of microcomputer-based Landsat digital image processing tutorial	\$ 23,670
JUN 1979 - MAY 1980	NASA., Earth Resources Laboratory, N.S.T.L. Landsat Workshop Program Objective: Programs to encourage the teaching of Landsat technology applications	\$ 15,000

Invited Presentations

2009	Great Green Wall, Dakar, Senegal
2008	Renewable Energy, Food, and Sustainability Workshop, Manhattan, KS Kansas State University, Manhattan, KS (Dept of Agronomy) University of Illinois, School of Earth, Society, and Environment, Champaign, IL AAG, Boston, MA LTER Regional Meeting, Albuquerque, NM Applied Geography Conference, Wilmington, DE K-State Research & Extension, Manhattan, KS
2007	University of Missouri, Columbia, MO (Geography Department) Kansas Geography Conference, Andover, KS Kansas Association of Mappers, Manhattan, KS
2006	Kansas Water Conference, Topeka, KS Blue Valley Yacht Club, Manhattan, KS Kiwanis International, Manhattan, KS (2 different Kiwanis groups)

- 2005 Kansas State University, Ecology and Environmental Biology
CEN SAD Science Meeting, Dakar, Senegal
Western Michigan University, Kalamazoo, MI (Geography Department)
- 2004 Buffalo Commons Revisited, Manhattan, KS
GRoWE Symposium, Manhattan, KS
- 2003 Southern Plains Regional Integrated Science Assessment (RISA) Workshop, Dallas, TX
- 2002 University of Delaware, Newark, DE (Geography Department)
- 2001 University of Kansas, Lawrence, KS (Geography Department)
32nd Annual South Dakota Geography Conference, Brookings, SD
- 1998 Emporia State University, Emporia, KS (Earth Science Department)
- 1997 Water and the Future of Kansas, Manhattan, KS
Second International Spartina Conference, Olympia, WA
- 1995 Arizona State University, Tempe, AZ (Geography Department)
- 1994 Kansas State University, Manhattan, KS (Geography Department)
Indiana University, Bloomington, IN (African Studies)
- 1993 Conservation of Great Plains Ecosystems, Kansas City, MO
- 1992 Eastern Illinois University (Geology-Geography Department)
Beltsville Symposium XVII, Beltsville, MD
North American Lakes Management Soc. (OK Chapter), Tulsa, OK
- 1991 Purdue University (Laboratory for Remote Sensing)
- 1990 ICRISAT, Niamey, Niger
Central Michigan University (Earth Day speaker - 2 presentations)
Michigan State University (Geography Department)
University of Illinois (Geography Department)
- 1989 ASP&RS Central New York Chapter, Geneseo, NY
SUNY at Geneseo (Geography Department)
International Range Management and Forage Production, Las Cruces, NM
El Paso/Las Cruces AMS Chapter, White Sands Missile Range, NM
Kansas State University (Geography Department)
- 1988 University of Nebraska-Lincoln (Conservation and Survey Division)
USDA Agricultural Research Service, Durant, OK
Oklahoma State University (Environmental Studies)
- 1987 University of Nebraska-Lincoln (Geography Department)
NOAA, NESDIS, Columbia, MO
Agrhymet, Niamey, Niger
Western Washington University (Geography Department)
Remote Sensing and Geographic Information Systems, Austin, TX
Southwest Texas State University (Geography Department)
El Paso/Las Cruces Chapter of the AMS, Las Cruces, NM
- 1986 New Mexico State (Biology Department)
New Mexico State (Earth Science Department)
- 1985 Western Michigan University (Geography Department)
Central Michigan University (Geography Department)
University of Arkansas (Geography Department)
University of Nebraska (Botany Department)
- 1984 University of Alabama (Geography Department)
- 1983 Oklahoma State University (Geography Department)
Southwest Missouri State University (Geography Department)
University of Oklahoma (School of Meteorology)
San Diego State University (Department of Geography)
- 1982 Eighth North American Prairie Conference, Kalamazoo, MI
University of Oklahoma (Oklahoma Climatological Survey)
Oklahoma Biological Station, Kingston, OK
ASLA (Oklahoma Chapter), Oklahoma City, OK
- 1981 Southwest Texas State University (Geography Department)

University of Oklahoma (Botany Department)
1980 University of Minnesota (Geography Department)
1979 OKC Geological Society, Oklahoma City, OK
APA (Oklahoma Chapter), Oklahoma City, OK
1977 Symposium on Applications of Geographic Research, East Lansing, MI

Professional Service

2007 - Coordinator, Kansas Geographic Alliance
2005-07 Co-Coordinator, Kansas Geographic Alliance
2003 Member, National Academy of Science, Workshop Steering Committee
2001-03 Vice-Chair and then Chair, Great Plains/Rocky Mountain Division of the AAG
2002 Member, AAG Nominating Committee
2002 External Reviewer, Univ. of Colorado-Denver
2001-02 Climatology Editor for Physical Geography
2000-03 Member, AAG Commission on College Geography II
1997-00 Editorial Advisor for Great Plains Research
1995-97 Director, Climate Specialty Group, AAG
1991-96 Student Awards Committee, Remote Sensing Specialty Group, AAG (Chair 93-96)
1992-96 Member, Remote Sensing Committee, Society for Range Management
1994-97 Board of Directors, Applied Geography Conferences
1987-95 Honors Committee, Climate Specialty Group, AAG (Chair 87-93)
1992-94 Member, University GIS Alliance (Indiana)
1992-94 NCGE Geography in Science Education Task Force
1984-90 NCGE Remote Sensing Committee
1988-89 Co-Chair, Local Arrangements Committee, 1989 AAAS SWARM Meeting
1987-89 Chair, Vice-Chair, Geology and Geography Section - SWARM Div., AAAS
1985-86 Abstract Reviewer - ESA Annual Meeting
1982-85 Chair, Vice-Chair, Geography Section - Oklahoma Academy of Science
1981-82 Program Committee - 1982 AAG Meetings

Proposal Reviewer - National Institute for Global Environmental Change (2), Oklahoma NASA EPSCoR, Kansas NASA EPSCoR, NSF Geography and Regional Science (9), EPA, State of Montana, NSF Science Education

Article Reviewer - Physical Geography (14), Geocarto International (12), Remote Sensing Reviews (3), Papers of the Applied Geography Conferences (55), Journal of Geography (4), Annals of the AAG (2), Southwestern Naturalist, Great Plains Research (2), Meteorological Applications (2), Water Resources Bulletin, International Journal of Remote Sensing (7), Photogrammetric Engineering and Remote Sensing (6), The Professional Geographer (6), AAG Resource Papers, Bioscience, Proceedings, Oklahoma Academy of Science, 1997 CLAG Yearbook, Climatic Research (2), Social Science Quarterly, Agriculture, Ecosystems, & Environment

Manuscript Reviewer - National Research Council, Kansas Geological Survey

Book Reviews: "Global Environment" Guilford Publications, Inc., "Weather as Science" McGraw-Hill, "Global Environmental Change: An Atmospheric Perspective" John Wiley & Sons, "Physical Geography: The Science of the Global Environment" John Wiley & Sons, "Spatial Analysis in Biogeography and Ecology" Kluwer Academic Publishers, "Indiana's Weather and Climate" Indiana University Press

Local Arrangements Coordinator, 2003 Great Plains - Rocky Mountains AAG Meeting, Manhattan, KS

Field Trip Co-leader, 2003 Great Plains - Rocky Mountains AAG Meeting, Manhattan, KS

Local Arrangements Committee Chair, 1996 Applied Geography Conference, Kansas City, MO

Co-Guest Editor, Volume 11, No. 3 of Geocarto International

Session Organizer: Applied Geography Conference (18), AAG Annual Meeting (3), NCGE Annual Meeting, AAAS SWARM Annual Meeting, PE&RS Annual Meeting (3)

Session Chair: Applied Geography Conference (8), AAG Annual Meeting (7), IV International Congress of

Ecology, IAHS Third Scientific Assembly, SSSA Annual Meeting, NCGE Annual Meeting, Oklahoma Academy of Science (2); AAG Southwest Regional Meeting, AAAS SWARM Annual Meeting, AAG Great Plains/Rocky Mountains Regional Meeting, Kansas Academy of Science, PE&RS Annual Meeting (3)

University Service

2007 Member, Search Committee for a new Director of the Konza Prairie Biological Station
2006 Member, Search Committee for GIS database person in the Office of Mediated Education
2005 Member, Planning Team (SWAT) for the University GIScience Commons
2005-2008 UCGIS Representative for Kansas State University
2004-2008 Chair, All-University GIScience Search Committee
2004-2005 Member, Search Committee for ARCSDE and ARCIMS Person in Office of Mediated Education
2001-2002 Chair, Political Science Head Search Committee
2000-2001 Member, Search Committee for Social Science Methods Faculty in Elementary Education
2000-2005 Recycling Committee
1996-2003 Governing Board, Natural Resources and Environmental Sciences: Secondary Major, Kansas State
1994 International Studies Secondary Major Review Committee, Kansas State
1993-1994 Environmental Safety Committee, Indiana State
1993-1994 Graduate Council, Indiana State
1993-1994 Graduate Student Appeals Committee, Indiana State
1993-1994 Director, Indiana State University Remote Sensing Lab
1991-1994 Natural Lands Committee, Indiana State
1990-1994 Co-Director, Indiana State University Climate Laboratory
1986-1989 Graduate Advisor, Masters of Applied Geography Program, New Mexico State
1986-1988 Director, Digital Mapping Laboratory, New Mexico State
1984-1985 Committee on Faculty Compensation, Oklahoma
1983-1984 Faculty Senate, Oklahoma
1982-1985 College of Geosciences Computer Committee, Oklahoma
1982-1984 Academic Misconduct Board, College of Geosciences, Oklahoma
1979-1985 Director, Landsat Technology Program, Oklahoma
1977 Distinguished Faculty Award Committee, College of Social Sciences, Michigan State