

**J.M. SHAWN HUTCHINSON**

Associate Professor and Director, Geographic Information Systems Spatial Analysis Laboratory (GISSAL)

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Personal Information

Birth Date: December 15, 1967
 Place of Birth: Cincinnati, Ohio USA
 Spouse: Dr. Stacy Lewis Hutchinson, Associate Professor
 Department of Biological & Agricultural Engineering, Kansas State University
 Children: Mitchell Owen Hutchinson (4/10/01) and Marleigh Louise Hutchinson (2/4/03)
 Address: 3208 Willowood Circle, Manhattan, Kansas 66502 USA

Education

Ph.D., Geography, Kansas State University (2000). Estimating Tallgrass Prairie Soil Moisture using Active Satellite Microwave Imagery and Optical Sensor Inputs. (Advisor: Dr. John A. Harrington, Jr.)
 M.A., Geography, Kansas State University (1997). Radar Backscatter-Soil Moisture Relationships over Tallgrass Prairie (Advisor: Dr. John A. Harrington, Jr.)
 B.S., Wildlife Biology (Minor, Range Ecology), Colorado State University (1990). Advisor: Dr. Dale Hein; *Cum Laude* and *Distinguished Military Graduate*

Academic Interests

Research:	Environmental Assessment and Modeling Spatial Epidemiology Remote Sensing	Agricultural Biosecurity Surface Water Resources Geographic Information Science
Teaching:	Geographic Information Systems Digital Cartography Satellite Remote Sensing Geocomputational Methods Biogeography	Geographic Information Science Geographic Visualization Digital Image Processing Water Resources and River Systems Physical Geography
Regions:	North America Western Europe	South America West Africa

Professional Experience

Associate Professor, Department of Geography, Kansas State University; 2007 – Present.
 Assistant Professor, Department of Geography, Kansas State University; 2002 – 2007.
 Director, Geographic Information Systems Spatial Analysis Laboratory (GISSAL), Department of Geography, Kansas State University; 2002 – Present.
 Geographic Information Systems Coordinator, Kansas State University; 2000 – 2002
 Visiting Assistant Professor, Department of Geography, Kansas State University; 2001 – 2002.
 Associate Director, Geographic Information Systems Spatial Analysis Laboratory (GISSAL), Department of Geography, Kansas State University; 2001 – 2001.
 Visiting Assistant Professor, Department of Biological and Agricultural Engineering, Kansas State University; 2000 – 2001.
 Adjunct Professor, Department of Geography, Kansas State University; 2001 – Present.
 Graduate Research Assistant, Department of Geography, Kansas State University; 1998.

Geographic Information Systems Manager, National Institute for Land Management and Training, Kansas State University; 1997 – 1998.
 Graduate Research Assistant, Department of Geography and Division of Biology, Kansas State University; 1995 – 1997.
 U.S. Army Engineer Officer, Platoon Leader (2nd Lieutenant) to Brigade Staff Officer (Captain); 1991 –1995. [See *Military Experience* section at end for more information].

Publications, Reports, and Other Scholarly Works (* = Peer-Reviewed)

- In Preparation: Ghimire, K., J.M.S. Hutchinson, M. Dulin, and R. Atchison. Identifying and assessing windbreaks in Ford County, Kansas using object-based image analysis. *Journal of Soil and Water Conservation*, in preparation.
 Hutchinson, J.M.S. and M. Gay. Mapping terroir of vineyards in southwestern France. *Professional Geographer*, in preparation.
 Hutchinson, J.M.S. and C. Calkins. Historical Agricultural Atlas of Kansas (with online supplement). Publisher TBD, in preparation.
- In Review: Vought, Jr., T.J., J.M. Shawn Hutchinson, S.L. Hutchinson, J.A. Harrington, Jr., and L.M.B. Harrington. Redefining military training land sustainability. *Journal of Environment and Development*, submitted.
 Vought, Jr., T.J., J.M. Shawn Hutchinson, J.A. Harrington, Jr. Assessing the vulnerability of U.S. counties to a livestock agricultural disease outbreak. *Social Sciences Quarterly*, submitted.
- 2011 *Hutchinson, J.M.S., J.F. Campbell, M.D. Toews, T.J. Vought, Jr., and S.B. Ramaswamy. 2011. Designing a Local-Scale Microsimulation of Lesser Grain Borer Population Dynamics and Movements. Chapter 10 in GIS Applications in Agriculture, Volume Three: Invasive Species, S. Clay, ed. Boca Raton, FL: CRC Press.
- 2010: Vought, Jr., T.J., J.M. Shawn Hutchinson, R. Daniels, and L. McKinney. 2010. Integrating Wheat Quality Data with Online Mapping to Enhance International Grain Purchases. *ESRI Map Book*, Vol. 25, p. 76. Redlands, CA: ESRI Press.
 Margosian, M.L., K.A. Garrett, J.M. Shawn Hutchinson, K.W. With, C. Scoglio, and P. Westhoff. 2010. Changes in Agricultural Crop Connectivity and Disease Susceptibility over the Last Century. *ESRI Map Book*, Vol. 25, p. 77. Redlands, CA: ESRI Press.
 Hutchinson, S.L. and J.M.S. Hutchinson. Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability – Demonstration Plan for ESTCP Project Number S08-20. Arlington, VA: Environmental Science and Technology Certification Program.
 Daniels, R., E. Martinson, R. Atchison, and J.M.S. Hutchinson. Kansas Statewide Forest Assessment and Research Strategy. Manhattan, KS: Kansas State University.
- 2009: *Thomas, Kathryn A., Monica M. McTeague, Anne Cully, Keith Schulz, and J.M. Shawn Hutchinson. 2009. Vegetation Classification and Distribution Mapping Report: Petrified Forest National Park. Natural Resources Technical Report NPS/SCPN/NRTR-2009/273. Fort Collins, CO: U.S. Department of the Interior, National Park Service, Natural Resource Program Center.
 *Margosian, M.L., K.A. Garrett, J.M.S. Hutchinson, and K.A. With. 2009. Connectivity of the American Agricultural Landscape: Assessing the National Risk of Crop Pest and Disease Spread. *BioScience* 59(2):141-151.
 *Allen, L.J.S., C.L. Wesley, R.D. Owen, D.G. Goodin, D. Koch, C.B. Jonsson, Y. Chu, J.M.S. Hutchinson, and R.L. Paige. 2009. A habitat-based model for the spread of Hantavirus between reservoir and spillover species. *Journal of Theoretical Biology* 260(4):510-522.
 *Dulin, M.W., J.M.S. Hutchinson, and R.A. Atchison. 2009. Identifying and assessing windbreaks in Ford County, Kansas using object-based image analysis. *Papers and Proceedings of the Applied Geography Conference* 32:332-341.
 *Hutchinson, S.L. and J.M. Shawn Hutchinson. 2009. Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability – Project SI-0820 Demonstration Plan. Arlington, VA: Environmental Security and Technology Certification Program.
 *Steichen, J.M., S.L. Hutchinson, N. Zhang, J.M. Shawn Hutchinson, C. Oviatt, A. Anderson, T. Keane, P.L. Barnes. 2009. Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality - Project SI-1339 Final Report. Arlington, VA: Strategic Environmental Research and Development Program.
- 2007: *Kim, I.J., S.L. Hutchinson, J.M.S. Hutchinson, and C.B. Young. 2007. Riparian Ecosystem Management Model (REMM): Sensitivity to soil, vegetation, and weather input parameters. *Journal of American Water Resources Association* 43(5):1171-1182.
 Vought, Jr., T.J. and J.M. Shawn Hutchinson. 2007. Assessing the vulnerability of U.S. livestock to agricultural biological terrorism (map). *ESRI Map Book*, Vol. 22, p. 48. Redlands, CA: ESRI Press.
 Margosian, M.L., K.A. Garrett, J.M.S. Hutchinson, and K. With. 2007. Connectivity of the American Agricultural landscape: A graph-theoretic approach. 2007 ESRI International User Conference Proceedings, Redlands, CA.
- 2006: *Hutchinson, J.M.S., T.J. Vought, Jr., and S.L. Hutchinson. 2006. Continuous soil moisture mapping using MODIS LST and NDVI products. *Papers of the Applied Geography Conference* 29:140-149.

- *Goodin, D.G., D.E., Koch, R.D., Owen, J.M.S. Hutchinson, and C.B. Jonsson. 2006. Land cover associated with hantavirus presence in Paraguay. *Global Ecology and Biogeography* 15:519-527.
- Hutchinson, Shawn. 2006. Responding to the threat of agricultural bioterrorism. *Directions Magazine* (Nov. 9). http://www.directionsmag.com/article.php?article_id=2333&trv=1.
- Lee, M., K.R. Mankin, J.M.S. Hutchinson. 2006. GIS Structure for Water Quality Trading. Paper No. MC06-4102 presented at the 2006 Mid-Central Section Meeting of the American Society of Agricultural and Biological Engineers. ASABE, 2950 Niles Rd., St. Joseph, MI 49085-9659.
- 2005: Aiken, R.M., D.J. Inloes, and J.M.S. Hutchinson. 2005. Precipitation maps: Can they support a regional water balance? Kansas State University Agronomic Field Research, Northwest Research and Extension Center. Kansas State University Agricultural Experiment Station and Cooperative Extension Service, Manhattan, Kansas 66506.
- 2004: *Goodin, D.G., J. Gao, J.M.S. Hutchinson. 2004. Seasonal, topographic, and burn frequency effects on biophysical/spectral reflectance relationships in tallgrass prairie. *International Journal of Remote Sensing* 25(23):5429-5445.
- *Hutchinson, J.M.S., J.A. Harrington, Jr., and L.J. Marzen. 2004. Geospatial Contributions to Watershed-Scale Surface Water Quality Modeling. In D.G. Janelle, B. Warf, and K. Hanson, eds. *World Minds: Geographical Perspectives on 100 Problems*, 556-570. Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Hutchinson, S.L., P.L. Barnes, J.M.S. Hutchinson, C.G. Oviatt, J. Steichen, and N. Zhang. 2004. Protecting Surface Water from Military Activity with Riparian Buffers and Low Water Stream Crossings. Paper No. 701P0904 presented at the 2004 ASAE/CSAE International Meeting. ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659.
- Engel, B.A., J. Choi, L. Theller, K.J. Lim; supporting authors J. Harrington, L. Harrington, S. Hutchinson. 2004. Geographic information systems (GIS) Technology. Chapter 15 in *Carcass Disposal: A Comprehensive Review*. Report prepared by National Agricultural Biosecurity Center Consortium, Carcass Disposal Working Group. CD and online at <http://fss.k-state.edu>. National Agricultural Biosecurity Center, Kansas State University, Manhattan, Kansas. 37 pp.
- Kim, I.J., S.L. Hutchinson, and J.M.S. Hutchinson. 2004. Assessment of Flow Paths in Upland Areas and Vegetated Buffers. Paper No. 042003 presented at the 2004 ASAE/CSAE International Meeting. ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659.
- 2003: *Hutchinson, J.M.S. 2003. Estimating near surface soil moisture using active microwave satellite imagery and optical sensor inputs. *Transactions of the American Society of Agricultural Engineers* 46(2):225-236.
- *Hutchinson, J.M.S., N.J. Leathers, J. Herynk, L.R. Campbell, and J.C. Reese. 2003. Agricultural plant pathogen disease pathways: Predicting the dispersal of exotic soybean aphids. *Papers and Proceedings of the Applied Geography Conference* 26:471-478.
- *Stansberry, B.M., J.M.S. Hutchinson, C.D. Becker, P.S. Gipson, T.H. Parker. 2003. Settlement patterns of forest birds in a prairie landscape. *Papers and Proceedings of the Applied Geography Conference* 26:479-487.
- *Brown, T.L., J.M.S. Hutchinson, J.A. Harrington, Jr., and M. Lu. 2003. Classification of natural characteristics and anthropogenic stressors in Kansas watersheds. *Papers and Proceedings of the Applied Geography Conference* 26:416-423.
- 2002: *Bhuyan, S.J., K.R. Mankin, J.M.S. Hutchinson, D.G. Goodin, J.K. Koelliker. 2002. Deriving land cover of a large agricultural watershed from multiple Landsat scenes. *Journal of Environmental Hydrology*, Paper 6, Volume 10 (www.hydroweb.com/jeh.html).
- *Hutchinson, J.M.S., J.A. Harrington, Jr., and L.J. Marzen. 2002. Geographic applications in nonpoint source pollution assessment. *Papers and Proceedings of the Applied Geography Conference* 25:18-26.
- Hutchinson, S.L., I.J. Kim, J.M.S. Hutchinson. 2002. Riparian Ecosystem Management Model Parameter Selection Using a Geographic Information System. Paper No. 022115 presented at the 2002 ASAE International Meeting. ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659.
- 2001: Hutchinson, J.M.S. 2001. Radar estimates of soil water content across vegetated watersheds. Paper No. 012222 presented at the 2001 ASAE International Meeting. ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659.
- 1999: *Goodin, D.G., J.M.S. Hutchinson, R.L. Vanderlip, and M.C. Knapp. 1999. Estimating Solar Irradiance for Crop Modeling using Daily Air Temperature Data. *Agronomy Journal* 91(5):845-851.
- 1998: *Hutchinson, J.M.S. 1998. Extracting Soil Moisture Information from ERS-1 SAR Imagery. *Applied Geographic Studies* 2(3):177-194.
- *Hutchinson, J.M.S. and B.C. Rundquist. 1998. Spatial Modeling of Net Radiation over Heterogenous Terrain. *Papers and Proceedings of the Applied Geography Conference* 21:416-423.
- 1997: *Hutchinson, J.M.S. 1997. Radar Backscatter - Soil Moisture Relationships over Tallgrass Prairie. *Papers and Proceedings of the Applied Geography Conference* 20:318-326.

Extramural Funding (* = Current Projects)

- 2010: * Hutchinson, J.M.S. and R. Daniels. 2010. Object-based Classification of Riparian Vegetation. Blue Earth LLC, \$11,320.
- 2009: *Hutchinson, J.M.S. 2009. Kansas Forest Service State Assessment and Resource Strategy. Kansas Forest Service, \$26,340.
*Hutchinson, J.M.S. and R. Daniels. 2009. Kansas Watershed Restoration and Protection Strategies – Middle Kansas-Soldier Creek. Blue Earth LLC, \$24,000.
- 2008: *Hutchinson, S.L. and J.M.S. Hutchinson. 2008. Fort Riley Range and Training Land Assessment Program. Fort Riley Integrated Training Area Management Program and U.S. Geological Survey, \$1,200,000.
*Hutchinson, J.M.S., K.A. Garrett, and C. Scoglio. 2008. Applying Landscape Connectivity to Model the Spread of Plant Pathogens. USDA-APHIS-PPQ-CPHST, \$74,176.
*Atchison, Robert and J.M.S. Hutchinson. 2008. Conserving, Renovating, and Establishing Working Field Windbreaks. U.S. Forest Service Western Competitive Grant Program, \$78,202.
- 2007: *Hutchinson, S.L. and J.M.S. Hutchinson. 2007. Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability. Environmental Science and Technology Certification Program (ESTCP), \$676,431.
- 2006: Harrington, John, Doug Goodin, and J.M.S. Hutchinson. 2006. Improving the Research Experience for Geographic Information Science Students. NASA in Kansas Space Grant, \$54,750.
Harrington, J.A., Jr., J.M.S. Hutchinson, and R.A. Marston. 2006. Global GIS Place-Based Field Research in the Antilles. Foreign Military Studies Office (FMSO), \$76,716.
Hutchinson, J.M.S. 2006. Web-based Visualization and Analysis Tool (WBV&AT). National Agricultural Biosecurity Center, Kansas State University, \$47,669.
Hutchinson, J.M.S. 2006. 24K National Hydrography Dataset Revision. Kansas GIS Policy Board, \$25,000.
- 2005: Hutchinson, J.M.S., J.A. Harrington, Jr. 2005. Geospatial Technology Infrastructure Enhancement Program – Phase II. Kansas State University Targeted Excellence Program, \$550,000.
Hutchinson, J.M.S. 2005. Kansas Forest Stewardship Assessment (SAP) Program. Kansas Forest Service, \$58,107.
Hutchinson, J.M.S., E. Bernard, and D. Andresen. 2005. GIS Functionality for the Environmental Knowledge and Assessment Tool (EKAT). Center for Hazardous Substance Research (Urban Operations Environmental Laboratory) and M2 Technologies, \$99,203.
Hutchinson, S.L. and J.M.S. Hutchinson. 2005. Green Topeka: Vegetated BMPs for Urban Stormwater Control. Cooperative agreement between the City of Topeka Water Pollution Control Division and Kansas State University, \$50,000/year for up to 5 years.
- 2004: Hutchinson, J.M.S., J.A. Harrington, Jr. 2004. Geospatial Technology Infrastructure Enhancement Program. Kansas State University Targeted Excellence Program, \$330,000.
- 2003: Jonsson, C.B., L. Allen, Y. Chu, R. Owens, D.G. Goodin, J.M.S. Hutchinson, E. Pontelli, D. Ranjan, S. Tran, M. Almiron. 2003. The Impact of Rapid Anthropogenic Land Cover Change in the Chaco and Interior Atlantic Forest in Paraguay on Hantavirus Ecology. National Institutes of Health, \$1,857,996.
Steichen, J., S.L. Hutchinson, P. Barnes, J.M.S. Hutchinson, D. Althoff, J. Oviatt, N. Zhang. 2003. Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality. Strategic Environmental Research and Development Program (SERDP), \$1,217,512.
Hutchinson, J.M.S. 2003. Vegetation Mapping of National Parks in the Southwestern United States. U.S. Dept. of Interior National Park Service, \$117,000.
Hutchinson, J.M.S. 2003. Travel to Paraguay in Support of Student Exchange and Research Activities. Faculty Development Award, Kansas State University, \$1,500.
Hutchinson, J.M.S. 2003. Brownfield Maps of Contamination in Communities. Great Plains Hazardous Substance Research Center, \$20,000.
Hutchinson, J.M.S. 2003. West Nile Virus Monitoring and Mapping. Kansas Department of Health and Environment and Department of Entomology, Kansas State University, \$5,000.
Reese, J., J.M.S. Hutchinson, and J. Campbell. 2003. Post Hoc Exercise on the Spread of a Potential Bioterrorism Agent. USDA Animal and Plant Health Inspective Service (APHIS) and the KSU National Agricultural Biosecurity Center. \$70,395.
- 2002: Goodin, D.G., J.A. Harrington, Jr., and J.M.S. Hutchinson. 2002. HYSPIRE: Hyper-Spectral Remote Sensing of Kansas Rural Environments. NASA, \$292,709.
Hutchinson, J.M.S. 2002. GPS Base Station Operation and Technical Support. Kansas Department of Administration, \$39,000.
- 2001: Hutchinson, J.M.S. and J.A. Harrington, Jr. 2001. Soil Survey Geographic (SSURGO) Digitization. USDA Natural Resources Conservation Service, \$25,000
Hutchinson, J.M.S. 2001. Geographic Information System Support for High Plains Dairy Suitability Assessment. Department of Animal Sciences, Kansas State University, \$6,000.

- Bernard, E. and J.M.S. Hutchinson. 2001. Human Resources GIS Database and Map Development. Union Pacific Railroad, \$1,700.
- 2000: Mankin, K.R., J.K. Koelliker, J.A. Harrington, and J.M.S. Hutchinson. 2000. Kanopolis Watershed Water Quality Assessment. Kansas Department of Health and Environment (KDHE), \$385,995.
- 1999: Seyler, H.L. (continued by Harrington, J.A. and J.M.S. Hutchinson). 1999. Soil Survey Geographic (SSURGO) Soils Recompilation and Digitizing (Kansas and Colorado). USDA Natural Resources Conservation Service, \$102,500 (two year award).
- Seyler, H.L. (continued by J.A. Harrington and J.M.S. Hutchinson). 1999. Development of a GIS for Marais des Cygnes Wildlife Refuge. U.S. Fish and Wildlife Service, 23,000 (two year award).
- 1998: Hutchinson, J.M.S. 1998. Research and Development Grant for Low-Cost Radar Imagery. European Space Agency, \$8,000.

Invited Presentations

- 2010: Hutchinson, J.M.S. and S.L. Hutchinson. 2010. Remote Sensing Techniques to Assess Vegetation and Training Land Condition. U.S. Army Sustainable Range Program, April, Online Conference.
- 2009: Hutchinson, J.M.S. 2009. The Geography of U.S. Animal Agriculture. Ecole Supérieure d'Agriculture de Purpan, October, Toulouse, France.
- 2006: Hutchinson, J.M.S. 2006. GIScience Research for Protecting Public Health and Food Supplies: Food Safety and Security Applications. Homeland Infrastructure Foundation Level Database (HIFLD) Working Group Meeting, February, Washington, D.C.
- 2005: Hubbard, M., J.A. Harrington, Jr., D. Goodin, and J.M.S. Hutchinson. 2005. Building Partnerships through the Development of a Digital Geoscience Atlas for Senegal. University Cheikh Anta Diop de Dakar (UCAD), February, Dakar, Senegal.
- 2004: Hutchinson, J.M.S. 2004. Remote Sensing of Soil Moisture. South China Agricultural University, October, Guangzhou, China.
- Hutchinson, J.M.S. 2004. Using GIS and Remote Sensing in Biophysical Research. Henan University, October, Zhengzhou, China.
- Hutchinson, J.M.S. 2004. GIS Applications in Agricultural Biosecurity. Jilin University-Kansas State University Joint Research Symposium, Jilin University, October, Changchun, China.
- Hutchinson, J.M.S. 2004. Using GIS and Remote Sensing in Biophysical Research – Recent Examples. Geology Seminar Series, Department of Geology, Kansas State University, March, Manhattan, Kansas.
- 2003: Hutchinson, J.M.S. 2003. Using GIS in Entomology: Predicting the Distribution of Soybean Aphids (*Aphis glycines*) in 2003. Department of Entomology, Kansas State University, September, Manhattan, Kansas.
- Hutchinson, J.M.S. 2003. Watershed Modeling and Geographic Information Systems. Kansas Water Environment Association Annual Conference, April, Topeka, Kansas.
- 2002: Hutchinson, J.M.S. 2002. GIS Applications in Agricultural Biosecurity. Seminar for the Carcass Disposal Working Group (CDWG) of the National Agricultural Biosecurity Center, December, Manhattan, Kansas.
- 2001: Hutchinson, J.M.S. 2001. Geographic Applications in Nonpoint Source Pollution Assessment. Seminar for the Gamma Theta Upsilon Geography Honor Society, Kansas State University, December, Manhattan, Kansas.
- 1999: Hutchinson, J.M.S. 1999. Spatial Modeling of Net Radiation over Heterogeneous Terrain. Seminar for the Remote Sensing and GIS Laboratory, Utah State University, June, Logan, Utah.
- 1998: Hutchinson, J.M.S. 1998. Radar Backscatter-Soil Moisture Relationships over Tallgrass Prairie. Department of Geography and Department of Plants, Soils, and Biometeorology Special Seminar, Utah State University, April, Logan, Utah.

Papers and Posters Presented at Professional Meetings

- 2011: Monitoring Military Training and Sustainability at Fort Riley, Kansas in Real- or Near-Real Time using Geospatial Techniques and Automated Sensor Deployments. January 2011. Kansas Natural Resources Conference. Wichita, KS.
- 2010: Rapid Soil Erosion Assessment Modeling for Predicting Gully Locations on Military Training Lands. S.L. Hutchinson, J.M. Shawn Hutchinson, and P. Bussen. December 2010. SERDP and ESTCP Partners in Environmental Technology Technical Symposium & Workshop. Washington D.C.
- Rapid Monitoring and Assessment of Military Training Land Sustainability at Fort Riley, Kansas. J.M. Shawn Hutchinson, S.L. Hutchinson, P.B. Woodford, C. Otto. October 2010. Annual Meeting of the Great Plains-Rocky Mountain Division of the Association of American Geographers. Lawrence, Kansas.
- Redefining Military Training Land Sustainability. T.J., Vought, Jr., J.A. Harrington, Jr., J.M. Shawn Hutchinson, L.M.B.

- Harrington, S.L. Hutchinson. October 2010. Annual Meeting of the Great Plains-Rocky Mountain Division of the Association of American Geographers. Lawrence, Kansas.
- Fort Riley ITAM: A New Approach for Monitoring Military Training Land Sustainability. August 2010. 1st Annual Training Support System Workshop; Chicago, IL (J.M.S. Hutchinson, S.L. Hutchinson, P. Woodford, and C. Otto).
- Defining, Measuring, and Monitoring Sustainability on Military Training Lands. April 2010. Annual Meeting of the Association of American Geographers; Washington, DC (T. Vought, J.M.S. Hutchinson, S.L. Hutchinson, J.A. Harrington, Jr., and L.M.B. Harrington).
- Automated Extraction of Military Vehicle Tracks from Aerial Photography and Satellite Imagery at Fort Riley, Kansas. April 2010. Annual Meeting of the Association of American Geographers; Washington, DC (K. Franke, J.M.S. Hutchinson, S.L. Hutchinson).
- Hutchinson, S.L., J.M.S. Hutchinson, T. Vought, B. Lantz, and P. Woodford. 2010. The Fort Riley Range and Training Land Assessment Program. Kansas Natural Resources Conference, February, Wichita, KS.
- 2009: Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment: nLS Model Overview and Sensitivity Analysis Results. December 2009. SERDP and ESTCP Partners in Environmental Technology Technical Symposium & Workshop; Washington, DC (S.L. Hutchinson and J.M.S. Hutchinson).
- Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection (SI-2017). December 2009. Watershed Process and Management Side Meeting, SERDP and ESTCP Partners in Environmental Technology Technical Symposium & Workshop; Washington, DC (S.L. Hutchinson, J.M.S. Hutchinson, and T.J. Vought, Jr.)
- Identifying and Assessing Windbreaks in Ford County, Kansas using Object-based Image Analysis. October 2009. Applied Geography Conference; Baton Rouge, LA (M. Dulin, J.M.S. Hutchinson, and R. Atchison).
- Integrating Wheat Quality Data with Online Mapping to Enhance International Grain Purchases. July 2009. ESRI International User Conference; San Diego, CA (T. Vought, Jr., J.M.S. Hutchinson, and L. McKinney)
- Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability. July 2009 ESRI International User Conference; San Diego, CA (J.M.S. Hutchinson, S.L. Hutchinson, J. Burkitt, and K. Franke)
- GIS-enabled Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection. April 2009. Capitol Research Summit, Topeka, KS (J. Burkitt, K. Franke, J.M.S. Hutchinson, and S.L. Hutchinson)
- Identifying and Assessing Windbreaks using Hierarchical Learning and Object-based Imagery Analysis. March 2009. Annual Meeting of the Association of American Geographers; Las Vegas, NV (M. Dulin, J.M.S. Hutchinson, and R. Atchison).
- The Efficacy of Natural Vegetative Barriers at Controlling Prairie Dog Dispersal in Shortgrass Prairie: Year 1 Results. March 2009. Annual Meeting of the Association of American Geographers; Las Vegas, NV (Z. Eddy, C. Lee, and J.M.S. Hutchinson).
- Integrating Wheat Quality Data with Online Mapping to Enhance International Grain Purchases. March 2009. Kansas State University Graduate Research Forum; Manhattan, KS (T. Vought, Jr., J.M.S. Hutchinson, and L. McKinney)
- GIS-enabled Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection. March 2009. Kansas State University Graduate Research Forum; Manhattan, KS (J. Burkitt, K. Franke, J.M.S. Hutchinson, and S.L. Hutchinson)
- The Kansas Forest Stewardship Spatial Analysis Project. March 2009. Kansas State University Graduate Research Forum; Manhattan, KS (M. Dulin, J.M.S. Hutchinson, and R. Atchison).
- Efficacy of Natural Vegetation Barriers at Controlling Prairie Dog Dispersal in Shortgrass Prairie The Kansas Forest Stewardship Spatial Analysis Project. . March 2009. Kansas State University Graduate Research Forum; Manhattan, KS (Z. Eddy, C. Lee, and J.M.S. Hutchinson).
- Identifying and Assessing Windbreaks in Ford County, Kansas using Object-based Image Analysis. January 2009. Kansas Natural Resource Conference; Wichita, KS (J.M.S. Hutchinson, M. Dulin, and R. Atchison).
- 2008: Connectivity of the American Agricultural Landscape: Applying Graph Theory to Assess the National Risk of Crop Pest and Disease Spread. August 2008. Ecological Society of America Annual Meeting; Milwaukee, WI (K. Garrett, M. Margosian, J.M. Shawn Hutchinson, and K. With).
- Across the Curriculum: The GIScience Development Strategy at Kansas State University. August 2008. ESRI International User Conference; San Diego, CA (J.A. Harrington, Jr. and J.M.S. Hutchinson).
- Connectivity of the American Agricultural Landscape: A Graph-Theoretic Approach using GIS. April 2008. Annual Meeting of the Association of American Geographers; Boston, MA (J.M. Shawn Hutchinson, M. Margosian, K. Garrett, and K. With).
- Kansas Forest Stewardship Program: Spatial Analysis Project. February 2008. Kansas Natural Resource Conference; Wichita, KS (J.M.S. Hutchinson, M. Dulin, and R. Atchison).
- 2007: Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability. December 2007. SERDP and ESTCP Partners in Environmental Technology Technical Symposium & Workshop; Washington, DC (S.L. Hutchinson and J.M.S. Hutchinson).

- Kansas Forest Stewardship Program: Spatial Analysis Project. June 2007. ESRI International User Conference; San Diego, CA (M. Dulin and J.M.S. Hutchinson).
- Connectivity of the American Agricultural Landscape. June 2007. ESRI International User Conference; San Diego, CA (M. Margosian, J.M. Shawn Hutchinson, K. Garrett, and K. With)
- Assessing the Impact of DEM Resolution in Determining Transitional Erosion Areas: A Case Study of a Small Watershed in Fort Riley, Kansas. June 2007. ESRI International User Conference; San Diego, CA (A. Kesarwani, J.M. Shawn Hutchinson, S.L. Hutchinson, and I.J. Kim)
- Kansas Forest Stewardship Spatial Analysis Project (SAP). April 2007. U.S. Forest Service Forest Stewardship Program Spatial Analysis Summit; Broomfield, CO (J.M.S. Hutchinson and R. Atchison).
- 2006: Impact of Land Use on Rodent-Hantavirus Dynamics in Paraguay. October 2006. EcoHealth ONE Conference; Madison, WI (D.G. Goodin, L.B. Allen, Y. Chu, J.M.S. Hutchinson, C.B. Jonsson, R.D. Owen, E. Pontelli, and S. Tran)
- Continuous Soil Moisture Mapping using MODIS LST and NDVI Products. October 2006. Applied Geography Conference; Tampa, FL (with T.J. Vought, Jr. and S.L. Hutchinson)
- Continuous Soil Moisture Mapping using MODIS LST and NDVI Products. August 2006. ESRI International User Conference; San Diego, CA (with T.J. Vought, Jr. and S.L. Hutchinson)
- Assessing the Vulnerability of U.S. Counties to Bioterrorism. August 2006. ESRI International User Conference; San Diego, CA (with T.J. Vought, Jr.)
- The Effects of Different Resolution DEMs in Determining Overland Flow Regimes. August 2006. Integrated Training Area Management (ITAM) Workshop; Manhattan, KS (S.L. Hutchinson, J.M.S. Hutchinson, I.J. Kim, and P.B. Woodford).
- A GIS-Enabled Kinematic Wave Approach for Calculating the Transition between Sheet and Concentrated Flows. August 2006. Integrated Training Area Management (ITAM) Workshop; Manhattan, KS (S.L. Hutchinson, J.M.S. Hutchinson, and I.J. Kim).
- Spatial and Temporal Analysis of Soil Moisture using MODIS NDVI and LST Product. August 2006. Integrated Training Area Management (ITAM) Workshop; Manhattan, KS (J.M.S. Hutchinson, T.J. Vought, Jr. and S.L. Hutchinson).
- Overview: Assessing the Impact of Maneuver Training on Nonpoint Source Pollution and Water Quality (Project #CP-1339). August 2006. Integrated Training Area Management (ITAM) Workshop; Manhattan, KS (J.M. Steichen, P.L. Barnes, S.L. Hutchinson, J.M.S. Hutchinson, P.B. Woodford, and N. Zhang).
- Agricultural Biosecurity and GIS: Overview and Applications. April 2006. MidAmerica GIS Symposium; Kansas City, MO (with Bradley De Groot and John Reese).
- GIS Structure for Water Quality Trading. April 2006. Mid-Central Regional Meeting of the American Society of Agricultural and Biological Engineers; Manhattan, KS (with M. Lee and K.R. Mankin).
- Rapidly Changing Demographics and Water Uses in the Arkansas River Basin. March 2006. 23rd Annual Water and the Future of Kansas Conference; Topeka, KS (with J.A. Harrington, Jr. and Nathan Kettle).
- Agricultural Biosecurity and GIS: A Site Evaluation Model for Mass Livestock Burial. March 2006. Annual Meeting of the Association of American Geographers; Chicago, IL.
- 2005: A GIS-Enabled Kinematic Wave Approach for Calculating the Transition between Sheet and Concentrated Flows. December 2005. Partners in Environmental Technology Symposium and Workshop; Washington, D.C. (with S.L. Hutchinson and I.J. Kim).
- Agricultural Emergency Management with GIS: Animal Carcass Disposal Modeling. November 2005. Applied Geography Conference; Washington, D.C. (with L. Emerson and S. Oko).
- GIScience Research for Protecting Public Health and Food Supplies: Food Safety and Security Applications. September 2005. ESRI Homeland Security GIS Summit; Denver, CO.
- Evaluation of Overland Flow Paths Generated from Multiresolution Digital Elevation Models. April 2005. Annual Meeting of the Association of American Geographers; Denver, CO (with S.L. Hutchinson and I.J. Kim).
- Protecting Public Health and Food Supplies: GIScience Research for Understanding Plant, Animal, and Human Biohazard Interactions. February 2005. UCGIS Congressional Breakfast (sponsored by Senator Clinton and Representatives Maloney and Shays); Washington, D.C. (with E. Bernard, J. Harrington, Jr., B. DeGroot, J. Stack, J. Reese, C. Kastner, and M. Vanier).
- 2004: Spatial Soil Moisture Estimates for Fort Riley, Kansas using MODIS Land Surface Temperature and Vegetation Index Products. November 2004. Partners in Environmental Technology Symposium and Workshop; Washington, D.C. (with S.L. Hutchinson and T. Vought).
- Predicting the Dispersal of the Soybean Aphid, *Aphis glycines*, using GARP Models. November 2004. Annual Meeting of the Entomological Society of America; Salt Lake City, UT (with L.R. Campbell, J. Reese, N. Leathers, and B. Stansberry).
- Predators and Their Habitats Revisited: A Diverse Carnivore Community and Their Habitat Associations in the Atlantic Forest of Paraguay. November 2004. Defenders of Wildlife's Carnivores 2004: Expanding Partnerships in Carnivore Conservation; Santa Fe, NM (with G.L. Zuercher, P.S. Gipson, R. Naidoo, and O. Carrillo).

- Spatial and Temporal Analysis of Soil Moisture using MODIS NDVI and LST Products. October 2004. Applied Geography Conference; St. Louis, MO (with T. Vought and S.L. Hutchinson)
- Utility of Base Reflectivity for Mapping Precipitation in the Central High Plains. October 2004. Annual Meeting of the AMS/NWA; Goodland, KS (with R. Aiken and D. Inloes).
- Soil Moisture Estimates using MODIS Land Surface Temperature and NDVI. August 2004. American and Canadian Societies of Agricultural Engineering Annual Conference; Ottawa, Ontario (with S.L. Hutchinson and S. Leis).
- Habitat Mapping in the Mbaracayu Forest Preserve, Paraguay, using Orthophotography and Landsat TM Imagery. May 2004. Annual Meeting of the American Society of Photogrammetry and Remote Sensing; Denver, CO (with R. Reker and D.G. Goodin).
- Predicting Future Geographic Distributions of Exotic Aphids in the United States using GIS-based Ecological Niche Models. April 2004. Annual Meeting of the Kansas (Central States) Entomological Society ; Lincoln, NE (with N. Leathers, B. Stansberry, J. Reese, and L. Campbell).
- Modeling Soybean Aphid (*Aphis glycines*) Range Distribution using GARP and Annual Rates of Spread. March 2004. Annual Meeting of the Association of American Geographers; Philadelphia, PA (with Nancy Leathers, John Reese, and Leslie Campbell).
- Land Cover Change and Deforestation in the Interior Atlantic Forest, Eastern Paraguay. March 2004. Annual Meeting of the Association of American Geographers; Philadelphia, PA (with Douglas Goodin and Ryan Reker).
- Classification of Natural Characteristics and Anthropogenic Stressors in Kansas Watersheds. March 2004. 21st Annual Water and the Future of Kansas Conference; Lawrence, KS (with T.L. Brown, J.A. Harrington, Jr., and Max Lu).
- Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality. March 2004. 21st Annual Water and the Future of Kansas Conference; Lawrence, KS (with S.L. Hutchinson, J. Steichen, P. Barnes, C. Oviatt, and N. Zhang).
- 2003: Home Range Size and Habitat Use by Upland Sandpipers *Bartramia longicauda* in an Experimental Landscape. December 2003. Midwest Fish and Wildlife Conference; Kansas City, MO (with Tony Mong, Brett Sandercock, and Karl Kosciuch).
- Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality. December 2003. Partners in Environmental Technology Symposium and Workshop; Washington, D.C. (with J. Steichen, P. Barnes, S.L. Hutchinson, C. Oviatt, N. Zhang, and P. Woodford).
- Climatology of Fort Riley, Kansas and Vicinity. November 2003. 26th Annual Applied Geography Conference; Colorado Springs, CO (with B. Hammerschmidt and N.L. Leathers).
- The Use of GIS Analysis in Monitoring the North American Distribution of *Aphis glycines* (Soybean Aphid). October 2003. 2003 Entomological Society of America Annual Meeting and Exhibition; Cincinnati, OH (with John Reese and Leslie Campbell).
- Findings from a Post-Hoc Exercise on the Spread of a Potential Bioterrorism Agent. October 2003. Annual Meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers; Manhattan, KS (with Nancy Leathers, John Reese, and Leslie Campbell).
- Kansas Watershed Classification Assessment to Vulnerability for Surface Water Quality. October 2003. Annual Meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers; Manhattan, KS (with Tracy Brown, John Harrington, and Max Lu).
- Topographic, Seasonal, and Fire Treatment Effects on Spectral Reflectance in Tallgrass Prairie. October 2003. Annual Meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers; Manhattan, KS (with Douglas Goodin and Jincheng Gao).
- Protecting Surface Water from Military Activity with Riparian Buffers and Low Water Stream Crossings. September 2003. ASAE Specialty Conference Self-Sustaining Solutions for Streams, Wetlands and Watersheds; St. Paul, MN (with S.L. Hutchinson, P.L. Barnes, C.G. Oviatt, J. Steichen, and N. Zhang).
- Monitoring and Predicting the Dispersal of Soybean Aphids (*Aphis glycines*) in the U.S. April 2003. Annual Meeting of the Kansas (Central States) Entomological Society; Manhattan, Kansas.
- The Dynamics of Dispersal: Soybean Aphid (*Aphis glycines*) Movement in the U.S. April 2003. Annual Meeting of the Kansas (Central States) Entomological Society; Manhattan, Kansas.
- GIS Modules for ET and Available Soil Water in Northwest Kansas. March 2003. Kansas Water Conference; Manhattan, Kansas.
- 2002: Geographic Applications in Nonpoint Source Pollution Assessment. October 2002. Applied Geography Conference; Binghamton, NY.
- Modified Cloud Model Approach to Estimating Active Microwave Backscatter from Vegetation in Soil Moisture Investigations. June 2002. 2002 Annual Meeting of the International Geoscience and Remote Sensing Society (IGARSS); Toronto, Ontario, Canada.
- Geographic Applications in Nonpoint Source Pollution Assessment. April 2002. Mid-America GIS Symposium; Kansas City, MO.

- 2001: Regionalizing Riparian Ecosystem Management Model (REMM) Parameters. March 2002. Annual Meeting of the Association of American Geographers; Los Angeles, CA.
- 2001: Estimating Tallgrass Prairie Soil Moisture using Active Satellite Microwave Imagery and Optical Sensor Inputs. February 2001. Annual Meeting of the Association of American Geographers; New York, NY
- 2000: The Influence of Topography on Synthetic Aperture Radar Imagery. March 2000. Annual Meeting of the Association of American Geographers; Pittsburgh, PA.
- 1999: Rural Landcover Classification using Multidate SAR Imagery. May 1999. Annual Meeting of the American Society of Photogrammetry and Remote Sensing; Portland, OR.
- 1999: Spatial Modeling of Net Radiation over Heterogenous Terrain. March 1999. Annual Meeting of the Association of American Geographers; Honolulu, HI.
- 1998: Spatial Modeling of Net Radiation over Heterogenous Terrain. October 1998. Applied Geography Conference; Louisville, KY.
- 1998: Extracting Soil Moisture Information from ERS-1 Imagery. April 1998. Annual Meeting of the Association of American Geographers; Boston, MA.
- 1997: Radar Backscatter - Soil Moisture Relationships over Tallgrass Prairie. October 1997. Applied Geography Conference; Albuquerque, NM.
- 1997: Radar Backscatter - Soil Moisture Relationships over Tallgrass Prairie. September 1997. Great Plains/Rocky Mountain Division of the Association of American Geographers; Bozeman, MT.
- 1997: Radar Backscatter - Soil Moisture Relationships over Tallgrass Prairie. April 1997. Annual Meeting of the Association of American Geographers; Fort Worth, TX.

Fellowships, Awards, and Sabbatical Leaves

Sabbatical Leave, Laboratoire de Télédétection et de Gestion des Territoires, Université de Toulouse, Ecole d'Ingénieurs de Purpan, Toulouse, France (September 2009 – May 2010)

Team Member, 2005 ESRI Special Achievement in GIS (SAG) Award for Agriculture

New Faculty Fellow, Kansas State University (2003)

3rd Place, 2000 AAG Remote Sensing/GIS Specialty Group Student Poster Competition

1st Place, 1999 AAG Remote Sensing/GIS Specialty Group Student Poster Competition

2nd Place, 1998 AAG Remote Sensing/GIS Specialty Group Student Poster Competition

Student Travel Grant, 1998. Great Plains-Rocky Mountain Div. of the Assoc. American Geographers, \$200.

1st Place, 1997 Applied Geography Conference Student Paper Competition

1st Place, 1997 Great Plains/Rocky Mountain AAG Student Paper Competition

2nd Place, 1997 AAG Remote Sensing/GIS Specialty Group Student Poster Competition

Earth Systems Science Fellowship (3 Year Award). 1997. NASA, \$66,000.

Department of Defense Environmental Fellowship (2 Year Award). 1995. U.S. Dept. of Defense, \$50,000.

Teaching Experience

Graduate Courses

GEOG 702 Computer Mapping and Geographic Visualization, Department of Geography, Kansas State University; Spring 2002, Spring 2003, Spring 2005, Spring 2007, Spring 2008, Spring 2009, Spring 2011

GEOG 708 Geographic Information Systems II, Department of Geography, Kansas State University; Fall 2001, Fall 2002, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007, Fall 2008, Fall 2010

GEOG 712 Internet GIS and Distributed GIServices, Spring 2011

GEOG 725 Geography of Water Resources, Department of Geography, Kansas State University; Spring 2004, Spring 2006.

GEOG 808 Geocomputation, Department of Geography, Kansas State University; Spring 2009

Undergraduate Courses

CET 250 Photogrammetry, Department of Civil and Environmental Technology, Kansas State University; Fall 2000.

GEOG 220 Environmental Geography I, Department of Geography, Kansas State University; Spring 2001, Fall 2001, Spring 2002.

GEOG 302 Cartography and Thematic Mapping, Department of Geography, Kansas State University; Fall 2001, Fall 2002, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007

GEOG 508 Geographic Information Systems I, Department of Geography, Kansas State University; Spring 2003, Spring 2004, Spring 2006, Spring 2007, Fall 2008, Fall 2010

Guest Lectures

AGRON 655 Site Specific Agriculture, Department of Agronomy, Kansas State University; Spring 2003, Spring 2005, Spring 2006,

Spring 2007, Spring 2008; Topic: Satellite Remote Sensing.

ATM 558 Soil Erosion and Sediment Pollution Control Laboratory, Department of Biological and Agricultural Engineering, Kansas State University; Spring 2001; Topic: GIS/RS Laboratory.

DAS/DEN/GENAG 582 Natural Resources/Environmental Sciences Project, Kansas State University, Spring 2004; Topic: GIS and GIScience.

BAE 690/820 Non-Point Pollution Engineering, Department of Biological and Agricultural Engineering, Kansas State University; Fall 2000; Topic: Integration of GIS and RS in Water Quality Modeling.

BAE 530 Natural Resources Engineering, Department of Biological and Agricultural Engineering, Kansas State University; Spring 2001; Topic: GIS/RS Applications.

BIOL 822 Landscape Ecology, Department of Biology, Kansas State University; Fall 2003, Fall 2005; Topic: GIS Applications in Landscape Ecology.

Student Advising

PhD Students Advised

Aber, Jeremy (PhD, Geography) – expected 2011

Vought, Thomas (PhD, Geography) – expected 2011

PhD Committee Memberships

Ching'oma, Godfrey (PhD, Entomology, 2006)

Conard, Jonathan (PhD, Biology, 2009)

Dobbs, Mary (PhD, Geography, 2006) - Posthumous

Flock, Brian (PhD, Biology, 2006)

Ghimire, Kabita (PhD, Geography) – expected 2011

Kim, Ik-Jae (PhD, Biological & Agricultural Engineering, 2006)

Koch, David (PhD, Geography) – expected 2010

Laingen, Chris (PhD, Geography, 2009)

Lee, Ming-chieh (PhD, Biological & Agricultural Engineering, 2009)

McNew, Lance (PhD, Biology, 2010)

Mohandass, Shiva (PhD, Diagnostic Medicine & Pathobiology, 2011)

Nachappa, Punya (PhD, Entomology) – expected 2011

Ndiaye, Ramatoulaye (PhD, Geography, 2009)

Parajuli, Prem (PhD, Biological & Agricultural Engineering, 2007)

Presley, DeAnn (PhD, Agronomy, 2007)

Salazar, Aisha (PhD, Food Science) – expected 2011

Semeao, Altair (PhD, Entomology) – expected 2011

Sparks, Adam (PhD, Plant Pathology, 2009)

Tinnon, Vicki (PhD, Geography, 2010)

Tuppad, Pushpa (PhD, Biological & Agricultural Engineering, 2006)

Master's Students Advised

Breitkreutz, Will (M.A., Geography, 2006); "Mapping Hantavirus Risk: A Reservoir Species Perspective."

Brown, Tracy L. (M.A., Geography, 2004); "Classification of Potential Surface Water Pollution Sources in Kansas."

Davis, Tony (M.A., Geography, 2005); "Estimating Soil Erosion Risk at Fort Riley, Kansas using the Revised Universal Soil Loss Equation (RUSLE) with a Military Training Intensity Factor."

Dulin, Michael (M.A., Geography, 2009); "Identifying and Assessing Windbreaks in Ford County, Kansas using Object-based Image Analysis."

Eddy, Zachary (M.A., Geography) – expected 2010

Franke, Katherine (M.A., Geography) – expected 2010

Stansberry, Brooke (M.A., Geography, 2005); "Landscape Factors Influencing the Presence of Migrant Forest Songbirds in the Kansas Flint Hills."

Vought, Thomas (M.A., Geography, 2006); "Assessing the Threat of Biological Terrorism to U.S. Agriculture."

Master's Committee Memberships

Burkitt, Jeffrey (Beau) (M.A., Geography, 2009)

Brown, Michael (M.S., Geology, 2004)

Brown, Nancy (M.A., Geography, 2007)

Bussen, Patrick (M.S., Biological & Agricultural Engineering, 2009)
 Butler, Will (M.A., Geography) – expected 2012
 Christianson, Reid (M.S., Biological & Agricultural Engineering, 2003)
 Commerford, Julie (M.A., Geography, 2010)
 Conard, Jonathan (M.S., Biology, 2005)
 Dobbs, Mary (M.A., Geography, 2003)
 Emerson, Lori (M.A., Geography, 2005)
 Ghimire, Kabita (M.A., Geography, 2006)
 George, Jacob (M.A., Geography, 2009)
 Graf, Nicholas (M.A., Geography, 2008)
 Kersey, Nathaniel (M.A., Landscape Architecture/Regional & Community Planning, 2008)
 Kim, Ik-Jae (M.S., Biological & Agricultural Engineering, 2003)
 Klein, Matthew (M.A., Landscape Architecture/Regional & Community Planning, 2004)
 Mong, Tony (M.S., Biology, 2005)
 Patterson, Judd (M.A., Geography, 2008)
 Peterson, Rorik (M.A., Geography, 2008)
 Reker, Ryan (M.A., Geography, 2004)
 Sweet, Jason (M.A., Geography, 2006)
 Tabor, Lisa (M.A., Geography) – expected 2011
 Walterscheid, Steven (M.A., Geography, 2011)
 Zimney, Michael (M.A., Geography, 2003)

Graduate Certificate in GIScience Advisees

Aguilar, Jonathan (Biological & Agricultural Engineering, 2009)
 Bonagiri, Shravan (Geography, 2009)
 Bosco, Kimberly (Geology, 2009)
 Boutz, Bryan (Geography, 2010)
 Brown, Mike (Geology, 2004)
 Bunger, Chad (Landscape Architecture/Regional & Community Planning, 2007)
 Castle, Eric (Landscape Architecture/Regional & Community Planning, 2007)
 Conard, Jonathan (Biology, 2009)
 Cross, Kearston (Geography, expected 2011)
 Daggupati, Prasad (Biological & Agricultural Engineering, 2008)
 Dieker, Brian (Education, 2010)
 Emerson, Lori (Geography, 2005)
 Ennahil, Said (Agronomy, 2007)
 Eddy, Zachary (Geography, expected 2010)
 Frank, Brian (Agronomy, 2007)
 Gao, Jincheng (Geography, 2003)
 George, Jacob (Geography, 2008)
 Ghimire, Kabita (Geography, 2006)
 Graf, Nicholas (Geography, 2008)
 Guillossou, Stephane (Diagnostic Medicine & Pathobiology, expected 2012)
 Jasti, Srinivas (Computer & Information Science, 2004)
 Johnson, Tammi (Biology, 2005)
 Kersey, David (Landscape Architecture/Regional & Community Planning, 2008)
 Kettle, Nathan (Geography 2003)
 Klug, Page (Biology, expected 2011)
 Kim, Ik-Jae (Biological & Agricultural Engineering, 2006)
 Koch, David (Geography, 2008)
 Koch, Matthew (Biology, 2005)
 Kroemer, Ryan (Geography, 2003)
 Lee, Ming-chieh (Biological & Agricultural Engineering, 2007)
 Mahdi, Ali (Diagnostic Med/Pathobiology, 2010)
 Malinga, Gilbert (Biological & Agricultural Engineering, 2007)
 McNew, Lance (Biology, expected 2010)
 Mohandass, Sivakumar (Landscape Architecture/Regional & Community Planning, 2006)
 Mulisa, Yared (Agronomy, 2009)

Patterson, Judd (Geography, 2007)
Peterson, Rorik (Geography, 2007)
Presley, DeAnn (Agronomy, 2006)
Reker, Ryan (Geography, 2004)
Roberts, Autumn (Entomology, 2008)
Shabbeer, Shaik (Agricultural Economics, 2005)
Stimers, Mitch (Geography, 2011)
Sparks, Adam (Plant Pathology, 2008)
Tuppad, Pushpa (Biological & Agricultural Engineering, 2006)
Vought, Tom (Geography, 2008)
Walterscheid, Steven (Geography, 2011)
Zhang, Qi (Horticulture, 2007)

Undergraduate Certificate in GIS Advisees

Allen, Patrick (Geography, 2007)
Bergman, Shannon (Geography, 2008)
Boller, Garrett (Geography, expected 2011)
Burkitt, Jeffrey (Beau)(Geography, 2006)
Burniston, Johanna (Geography, 2008)
Calkins, Christopher (Geography, expected 2011)
Dhuyvetter, Dustin (Geography, expected 2011)
Donnelly, Christopher (Geography, 2007)
Dulin, Michael (Geography, 2007)
Fowles, Andrea (Geography, 2007)
Franke, Katherine (Geography, 2008)
Galyon, Jake (Geography, 2009)
Gebhart, Matthew (Toby)(Geography, 2007)
Hernandez, Kristi (Geography, expected 2011)
Hook, Lisa (Geography, 2009)
Hosey, Matthew (Geography, 2010)
Kohler, Courtney (Geography, expected 2011)
Landoll, Brett (Geography, 2009)
Lohrmeyer, Jake (Geography, 2007)
Martinson, Eli (Geography, 2008)
McCarty, Randi (Geography, expected 2011)
Mulcahy, Brian (Geography, expected 2011)
Muller, Arnost (Czech Republic Technical University, 2008)
Myers, Nathaniel (Geography, 2010)
Noll, Lance (Geography, 2007)
Paris, Aaron (Geography, 2006)
Pratt, Bethany (Geography, 2008)
Rawitch, Michael (Geography, expected 2011)
Riedel, William (Geography, 2007)
Robichaux, Rex (Geography, 2008)
Ronsick, David (Geography, 2006)
Sidorfsky, Michelle (Geography, 2009)
Strouse, Doran (Geography, 2006)
Thompson, Nicholas (Geography, 2006)
Vargas, Jorge (Geography, 2009)
Waechter, Jordan (Geography, expected 2011)
Walker, Troy (Geography, 2006)
Waltherscheid, Steven (Geography, 2009)
Wayant, Nicole (Geography, 2009)
Wilde, Sean (Geography, 2009)
Wilson, Iris (Geography, 2009)
Wright, Max (Geography, 2009)
Zacharias, Michael (Geography, expected 2011)
Zhang, Yuguang (Geography, expected 2011)

Service Activities

Professional Service

Member, AAG Student Awards and Scholarships Committee; 2007 – 2010.
 Newsletter Editor, Water Resources Specialty Group, Association of American Geographers; 2002 – 2008.
 Member, Association of American Geographers International Geographic Information Fund (AAG-IGIF) Award Selection Committee (2006-2007)

State Service

State of Kansas GIS Policy Board, 2001-2009.
 State of Kansas GIS Technical Advisory Committee (TAC), Agriculture and Water Resources Subcommittees; 2005-2009.
 State of Kansas Nonpoint Source Pollution Control Program Advisory Committee; 2001-Present.

University Service

Director, Graduate Certificate in GIScience Program, Kansas State University; 2002 – Present
 Director, Undergraduate Certificate in GIS Program, Kansas State University; 2004 – Present
 Delegate, University Consortium for Geographic Information Science; 2004 – Present
 Engineers & Scientists to the Rescue Instructor, Women in Science & Engineering Program (WESP), Kansas State University; 2005-2006
 ESRI Authorized Introduction to ArcView Instructor; 2003 – 2005.
 Girls Researching our World (GROW) Summer Workshop Instructor, Women in Science & Engineering Program (WESP), Kansas State University; 2005-Present
 K-State Learning Enhancement Action/Resource Network (LEARN); 2000 – 2003
 Member, Varney Chair in Business GIS, College of Business Administration, Kansas State University; 2008-2009
 Member, Kansas State University GIS Steering Committee; 2004 – Present
 Member, Kansas State University GIS Technical Advisory Group; 2006 – Present
 Member, Kansas State University Olathe Innovation Campus Faculty Advisory Board, 2009 – Present

Department Service

Chair, Faculty GIScience Search Committee, 2007
 Director, Geographic Information Systems Spatial Analysis Laboratory (GISSAL); 2002 – Present
 Kansas State University Open House; 2002 – Present
 Member, Department Head Search Committee, 2005
 Webmaster, Department of Geography; 2003 – Present

Memberships in Professional Organizations

Association of American Geographers (AAG)
 National Geographic Society
 University Consortium for Geographic Information Science (UCGIS)

Military Experience and Awards (1991-1995)

Positions and Units

Assistant Operations Officer (Captain), Engineer Brigade, 1 ID (Mech), Fort Riley, Kansas; January 1995 - August 1995.
 Plans Officer (1st Lieutenant), Engineer Brigade, 1 ID (Mech), Fort Riley, Kansas; February 1994 - January 1995.
 Executive Officer (1st Lieutenant), A Co., 1st Engineer Battalion, 1 ID (Mech), Fort Riley, Kansas; December 1992 - February 1994.
 Platoon Leader (2nd Lieutenant), B Co., 1st Engineer Battalion, 1 ID (Mech), Fort Riley, Kansas; June 1992 - December 1992.
 Platoon Leader (2nd Lieutenant), 55th Engineer Co. (MGB), 1 ID (Mech), Fort Riley, Kansas; May 1991 - June 1992.

Awards

Army Achievement Medal
 Army Commendation Medal
 Meritorious Service Medal
 Army ROTC Four-Year Scholarship (1986-1990), Colorado State University