

Curriculum Vitae

Matthew E. Ramspott

Assistant Professor
Department of Geography
Frostburg State University
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Personal Information

Date of Birth: August 30, 1972
Place of Birth: West Point, Nebraska
Marital Status: Married, no children

Research Interests

- Environmental applications of geographic techniques and geospatial technologies
- Application of geographic visualization to further awareness of geography in education and in decision-making
- Impacts of past and present land use on ecosystems
- Remote sensing methods for characterization of plant community biophysical properties
- Advanced conceptualization of Geographic Information Science as a spatial and temporal framework for environmental analysis, research, management, and planning activities.

Education

University of Nebraska, Lincoln (1990 – 1995), Lincoln, NE
Bachelor of Science Awarded 1995.

Advisor: Dr. Svata Louda

Major: Environmental Studies; Emphasis: Biological Science; GPA: 3.90

Minors: Mathematics, Anthropology.

Oregon State University (1997 – 1998), Corvallis, OR

Part-time post-baccalaureate study in Cartography and GIS; GPA: 3.83

Texas State University, San Marcos (1998 – 2000), San Marcos, TX

Master of Applied Geography (M.A.G.) Awarded 2000.

Committee: J. Ron Eyton (advisor), P. Showalter, D. Fitzsimons

Major: Remote Sensing, Cartography and GIS; GPA: 4.00

University of Kansas (2000 – 2006), Lawrence, KS

Ph.D. in Geography Awarded 2006.

Committee: K.P. Price (advisor), B.L. Foster, S. Egbert, T. Slocum, W. Johnson

Emphasis: Geographic Techniques and Methodology.

Outside Research Skill: Ecology.

Foreign Language: French.

GPA: 4.00

Professional History

- **University of Nebraska, Lincoln** (January 1993 – October 1995), Lincoln, NE
Research Assistant, Ecology
- **Nebraska Archaeological Survey** (November 1996), Lincoln, NE
Field Assistant
- **Kirkham Michael Engineering Consultants** (Summer 1998), Omaha, NE
Field Assistant, Land Survey Division
- **Texas State University, San Marcos** (August 1998 – May 2000), San Marcos, TX
Graduate Research Assistant/Teaching Assistant, Geography
- **Kansas Applied Remote Sensing (KARS) Program** (July 2000 – May 2006)
Graduate Research Assistant
- **University of Kansas** (August 2004 – May 2005), Lawrence, KS
Instructor and Graduate Teaching Assistant, Geography
- **Frostburg State University** (August 2006 – present), Frostburg, MD
Assistant Professor, Department of Geography

Courses Taught

- GEOG 3416: Airphoto Interpretation (as teaching assistant)
- GEOG 4440: Digital Terrain Modeling (as teaching assistant)
- GEOG 311: Map Conception and Development (as lab instructor)
- GEOG 358: Principles of Geographic Information Systems
- GEOG 103: Introduction to Physical Geography
- GEOG 413: Introduction to Remote Sensing and Airphoto Interpretation
- GEOG 310: Fundamentals of the Mapping Sciences (as lab instructor)
- IDIS 160: Science, Technology, & Society
- GEOG 275: Fundamentals of Geographic Data Handling
- GEOG 414: Digital Image Processing

Fellowships and Grants

- M. & L. Self Graduate Fellowship, University of Kansas, 2000 – 2004; \$135,000
- Dissertation Fellowship in the Physical Sciences, University of Kansas, 2005; \$10,000
- Conference Presentation Grants, Frostburg State University Faculty Development and Sabbatical Subcommittee, 2007 and 2008.

Honors and Awards

- University of Nebraska Regents Scholarship, 1990
- Henry H. Marvin Memorial Scholarship, 1991
- *Phi Beta Kappa* Academic Honor Society, 1995 – present
- 2nd Place Award, Student Poster Competition, Southwest Division of the Association of American Geographers, 1999
- Honorable Mention, National Geographic Society Cartography Competition, 1999
- Francis E. Lortz Memorial Scholarship, Central Region ASPRS, 2003
- 2nd Place Award, Student Honors Paper Competition, Remote Sensing Specialty Group, Association of American Geographers National Meeting, 2003
- 1st Place Award, Graduate Student Paper Competition, Great Plains/Rocky Mountain Region of the Association of American Geographers Meeting, 2003
- *Phi Kappa Phi* Academic Honor Society, Initiated in 2004

Professional Society Affiliations

- American Society for Photogrammetry and Remote Sensing, since 1998
- Pi Lambda Theta International Honor Society and Professional Association in Education, since 2002
- International Association of Landscape Ecology, since 2002
- Association of American Geographers, since 2002
- American Geographical Society, since 2007

Publications, Presentations, and Other Contributions

Peer-Reviewed Publications

- Murphy, C.A., B.L. Foster, **M.E. Ramspott**, and K.P. Price. 2004. Grassland Management and Soil Bulk Density. *Transactions of the Kansas Academy of Science* 107(1): 45-54.
- Murphy, C.A., B.L. Foster, **M.E. Ramspott**, and K.P. Price. 2005. Effects of Cultivation History and Current Grassland Management on Soil Quality in Northeastern Kansas. *Journal of Soil and Water Conservation*, in press.

Manuscript Submitted

- Foster, B.L., Khavin, I., Murphy, C.A., **Ramspott, M.E.**, Price, K.P., and K. Kindscher. Integrated Responses of Grassland Biodiversity and Ecosystem Properties to Hay Management: A Field Experiment. Submitted to *Grass & Forage Science*

Manuscripts in Preparation

- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C.A. Murphy. Estimating Canopy Greenness and Standing Crop Biomass in Managed Grassland with Spectral Vegetation Indices: Seasonal Effects.
- **Ramspott, M.E.** and K.P. Price. Discrimination of Managed Grassland Classes with NDVI and Image Texture.

Master's Thesis

- **Ramspott, M.E.** 2000. A Frequency-Based Contextual Classification Approach to Thematic Land Cover Mapping Using Panchromatic Satellite Image Data. Texas State University, San Marcos.

Doctoral Dissertation

- **Ramspott, M.E.** 2006. Remote Sensing-Based Characterization of Land Management and Biophysical Factors in Grassland. University of Kansas.

Published Proceedings Papers and Abstracts

- Showalter, P.S. and **M.E. Ramspott**. 1999. *The Use of Remote Sensing in Detecting and Analyzing Natural Hazards and Disasters, 1972-1998: A Partially Annotated Bibliography*. Occasional Paper #1, James and Marilyn Lovell Center for Environmental Geography and Hazards Research, Texas State University, San Marcos, TX.
- **Ramspott, M.E.** and J.R. Eyton. 2001. Frequency-Based Contextual Classification of Land Use/Land Cover in Central Texas from Landsat ETM+ Panchromatic Data. Proceedings, Annual Meeting of the American Society for Photogrammetry and Remote Sensing, St. Louis, MO, April 23-27, 2001. Paper presentation and proceedings paper.
- **Ramspott, M.E.**, K.P. Price, and B.L. Foster. 2003. Multi-scale remote sensing-based measurement of biophysical characteristics in northeast Kansas grasslands. Submitted to the **student honors paper competition**, Remote Sensing Specialty Group for the annual meeting of the Association of American Geographers (AAG) in New Orleans, LA, March 5 –8, 2003. **2nd Place Award**. Abstract published.

- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C.A. Murphy. 2003. Linking remotely sensed measurements to biophysical factors of a cool-season grassland in northeast Kansas. Paper presented at the Annual Meeting of the American Society for Photogrammetry and Remote Sensing (ASPRS), May 5-9, 2003, Anchorage, AK. Abstract published.
- Murphy, C. A., B. L. Foster, **M. E. Ramspott**, K. P. Price, T. Hildebrand and L. Evanhoe. 2003. Spatial Scaling of Plant Species Richness in Grasslands: Relationships to Productivity, Soils and Management. Ecological Society of America, Annual Meeting, August 3-8, Savannah, GA. Abstract published.
- Rowley, R.J. and **M.E. Ramspott**. 2003. Object-based classification of rural northeast Kansas grassland cover types using high-resolution aerial imagery. Paper presented at the Annual Meeting, Great Plains/Rocky Mountain Region of the Association of American Geographers, October 2-4, 2003, Manhattan, KS. **1st place award, Graduate Student Paper Competition**. Abstract Published.
- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C.A. Murphy. 2004. Characterization of biophysical factors in an experimental cool-season grassland using multirate, multiscale VNIR remote sensing. Paper presented at the Annual Meeting of the Association of American Geographers, Philadelphia, PA, March 14-19, 2004. Abstract Published.
- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C.A. Murphy. 2004. Using airborne multispectral sensor data to assess land-use impacts on carbon stocks in a managed grassland system. Proceedings, Annual Meeting of the American Society for Photogrammetry and Remote Sensing, Denver Colorado, May 5-8 2004. Paper presentation and proceedings paper.
- **Ramspott, M.E.**, K.P. Price. 2004. Remote sensing methods for prairie identification and inventory in Eastern Kansas. Paper Presented at the 19th North American Prairie Conference, Madison, WI, August 8-12, 2004, Abstract Published.
- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C.A. Murphy. 2005. Remote Sensing Methods for Prairie Identification and Inventory in Northeast Kansas. Paper presented at the Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005. Abstract Published.
- Price, K.P., F. Yu, J. Kastens, **M.E. Ramspott**, J.B. Thayne, and M. Houts. 2005. Investigating the Potential of Remotely Sensed Data and Spectral Mixing Models for Mapping Juniper and Estimating its Cover. Oral Presentation, Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005. Abstract Published.
- Karel, I., Foster, B., **Ramspott, M.**, Price, K. 2005. Arthropod diversity responds to nutrient enrichment and disturbance in a grassland experiment. Presented at the Annual Meeting of the Ecological Society of America, Montreal, Canada, August 8-12, 2005. Abstract published.
- Murphy, C., Foster, B., **Ramspott, M.**, Price, K., Kindscher, K. 2005. Effects of fertilization and haying on grassland productivity, community properties, and relationships to spectral reflectance. Presented at the Annual Meeting of the Ecological Society of America, Montreal, Canada, August 8-12, 2005. Abstract published.
- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C. Murphy. 2005. Modeling Biophysical Factors in Grassland Using Remote Sensing: Seasonal Effects. Paper presented at Pecora 16 “Global Priorities in Land Remote Sensing” Conference, Sioux Falls, SD, October 23-27, 2005. Abstract published in the conference proceedings.
- **Ramspott, M.E.**, K.P. Price, B.L. Foster, and C. Murphy. 2005. Using Time-Series Airborne Multispectral Imagery to Characterize Grassland Cover and Land Management Practices Influencing Soil Carbon Stocks. Paper presented at Pecora 16 “Global Priorities in Land Remote Sensing” Conference, Sioux Falls, SD, October 23-27, 2005. Paper published in the conference proceedings.
- **Ramspott, M.E.** and K.P. Price. 2006. Discrimination of Managed Grassland Classes with NDVI and Image Texture. Paper presented at the Joint Meeting of the Mid Atlantic and the Southeastern Divisions of the Association of American Geographers, November 20, Morgantown, WV.

- **Ramspott, M.E.** and K.P. Price. 2007. Effects of Grassland Management Practices on the Estimation of Photosynthetic Capacity from the Normalized Difference Vegetation Index. Paper presented at the Annual Meeting of the Association of American Geographers, San Francisco, California. April 21, 2007.
- Price, K.P., Thayn, J.B., Yu, F., **Ramspott, M.E.**, Voisey, D., Kastens, J.H., and Johnson, L.C. 2007. Estimating Cover of Red Cedar and Modeling its Invasion Patterns in a Central Great Plains Tallgrass Ecosystem. Presented at the Annual Meeting of the Association of American Geographers, San Francisco, California. April 17, 2007.
- **Ramspott, M.E.** and K.P. Price. 2008. Impact of Drought on Managed Grasslands: A Multi-Scale and Multi-Year Analysis using NDVI. Paper presented at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts. April 19, 2008.

Other Paper Presentations

- Price, K.P., X.Guo, and **M.E. Ramspott**. 2001. Characterization of Grassland Management Practices in a Tallgrass Ecosystem Using HyMap Hyperspectral Data. Slide Presentation, ASPRS 2001 Meeting, April 23-27, St. Louis, MO.
- Price, K.P., F. Yu, M. Houts, **M.E. Ramspott**, and L.C. Johnson. 2001. Estimating Canopy Cover of Redcedar (*Juniperus virginiana*) Using Linear Spectral Mixing Models and Multitemporal Landsat TM. 3rd International Conference on Geospatial Information in Agriculture and Forestry, Nov. 5-7, 2001, Paper Presentation.
- Murphy, C. A., B. L. Foster, **M. E. Ramspott** and K. P. Price. 2003. Soil characteristics of Conservation Reserve Program in relation to other privately managed grasslands. Society for Ecological Restoration International Conference. Austin, Texas. November 19-22, 2003.

Poster Presentations

- **Ramspott, M.E.** 1999. Analysis of Landsat TM Data for Change Detection in a Rapidly Developing Area of the Republic of South Africa. Poster Presentation, Pecora 14 Conference: Land Satellite Information III, December 6-10, 1999, Denver, CO. Also presented at the 1999 Southwest Regional Meeting of the Association of American Geographers, October 19 -24, San Marcos, TX. **Awarded 2nd Prize, Student Poster Competition.**
- **Ramspott, M.E.**, X.Guo, and K.P. Price. 2001. Spectral Unmixing Analysis in Managed Tallgrass Prairie. 3rd International Conference on Geospatial Information in Agriculture and Forestry, Nov. 5-7, 2001, Poster Presentation.
- Dunbar, M.D., L.M. Moskal, **M.E. Ramspott**, M.E. Houts, K.P. Price, M.E. Jakubauskas, and E.A. Martinko. 2002. High-resolution digital multispectral data acquisition system for forestry and rangeland applications. Poster presentation at the Kansas Academy of Science meetings, Ft. Hays State University, Saturday April 13, 2002 and at the Mid America GIS Symposium, Kansas City, MO, April 14-18, 2002.
- Coles, B.F, **M.E. Ramspott**, K.P. Price, W.M. Cook, and R.H. Hagen. 2003. Use of High-Resolution Multitemporal Imagery for Characterizing Biophysical Factors Associated with Plant Community Succession in a Prairie/Deciduous Forest Ecotone. Poster presented at the annual meeting of the AAG in New Orleans, LA, March 5-8, 2003.
- Price, K.P., **M.E. Ramspott**, B.L. Foster, and C.A. Murphy. 2004. Using airborne multispectral sensor data to assess land-use impacts on carbon stocks in a managed grassland system. Poster presented at the Annual Meeting of the Association of American Geographers, Philadelphia, PA, March 14-19, 2004.

Other Presentations

- **Ramspott, M.E.**, and K.P. Price. Understanding Carbon Sequestration Processes in a Tallgrass Prairie Agro-Ecosystem. Presentation to the University of Kansas Field Station and Ecological Reserves (KSR) Forum, Oct. 12, 2001.
- **Ramspott, M.E.** Hyperspectral Remote Sensing of Managed Tallgrass Prairie Vegetation. Slide Presentation at the University of Kansas Women in Geosciences seminar, October 29, 2001.
- **Ramspott, M.E.** Measuring and Monitoring the Landscape: Applied Research in Geography. Presentation to the bi-weekly seminar of the Self Graduate Fellowship Development Program, March 25, 2003.
- Price, K.P., **M.E. Ramspott**, B.L. Foster, C.A. Murphy, S.L. Egbert, B. Wardlow, and E.A. Martinko. 2003. Remote Sensing as a Carbon Measurement and Monitoring Tool. Presentation to the Carbon Measurement and Monitoring Forum, hosted by the Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGS), October 15-17, Manhattan, KS.
- **Ramspott, M.E.** 2003. Land Use History and Carbon Dynamics in Managed Grasslands of Northeast Kansas: Implications for Preservation and Restoration of Native Prairies. Invited presentation to the National Conference, The Practice of Restoring Native Ecosystems, National Arbor Day Foundation, October 20-22, 2003, Nebraska City, Nebraska.
- **Ramspott, M.E.**, B.F. Coles, K.P. Price, W.M. Cook, and R.H. Hagen. 2003. Use of high-resolution multitemporal imagery for characterizing phenology associated with plant community succession in a prairie/deciduous forest ecotone. Submitted to the Illustrated Paper Student Competition, University of Kansas Dept. of Geography GIS Day, November 19, 2003, Lawrence, Kansas.
- Price, K.P., **M.E. Ramspott**, B. L. Foster, and C.A. Murphy. 2004. Using Time-Series Remotely Sensed Data for Characterizing Land Cover and Land Use Practices in the Central Great Plains. Colloquium, Department of Ecology and Evolutionary Biology, University of Kansas, September 2, 2004.
- **Ramspott, M.E.** 2006. Remote sensing-based characterization and classification of managed grasslands. Invited presentation to the FSU Geography Club and GTU Research Presentation Series: December 5.
- **Ramspott, M.E.** 2008. China: Environmental Challenges Facing an Emerging World Power. Invited presentation for the teach-in symposium: Focus the Nation: Global Warming Solutions for America, Frostburg State University, January 31, 2008.

Published Book Review

- **Ramspott, M.E.** 2007. Book Review of *Multispectral Image Analysis Using the Object-Oriented Paradigm* by Kumar Navulur. Photogrammetric Engineering & Remote Sensing 73 (9): 987-988.

Other Contributions

- **Ramspott, M.E.** 1999. "The Colorado Plateau: Physical Landscape." Map poster submitted to the 1999 National Geographic Cartography Competition. **Awarded Honorable Mention.**
- Contributed graphics and GIS analysis to the paper and presentation for: Showalter, P.S., M. Silberbauer, J. Moolman, and A. Howman. 2000. Revisiting Rietspruit: Land Cover Change and Water Quality in South Africa. Proceedings of the ICRSE International Symposium on Remote Sensing of Environment and the Third AARSE Symposium, Cape Town, South Africa, 27-31 March, 2000, Technical Session 11.
- Although I could not be listed as a co-author or investigator because of my status as a graduate student, I assisted in the preparation of the following research proposal, funded by NASA: Linking Remote Sensing, Land Use, and Carbon Sequestration: Insights from Leaf to Landscape Scales in America's Heartland. 2001. Investigators: K.P. Price, E.A. Martinko, J. Whistler, T. Crooks, M.E. Jakubauskas, S. Egbert, K. Kindscher, C. Martin, B. Foster, D. Kettle, H. Tian.
- Contributed photography to the newspaper article: Bycott, Rebecca. 2001. "Adventures Abound on Northwest Trek." Lawrence (KS) Journal World, Vol. 143, No. 266, September 23, 2001.

Professional Service: Recent Contributions

University of Kansas Geography Department

- Presenter for Geography Department, KU Open House, Fall 2003
- Search committee, Atmospheric Sciences faculty position, Spring 2004
- Volunteer presenter, Geography Department visit by area Jr. High students, Fall 2004
- GIS Day Symposium committee and Student Competition session organizer, 2004 and 2005
- Graduate student member of the Faculty Salary and Benefits Committee, Spring 2005

University of Kansas Graduate School

- Interviewed for newsletter article “Student Examines Landscape From Air,” Fall 2004

American Society for Photogrammetry and Remote Sensing (ASPRS)

- Treasurer, Mt. Oread Student chapter of the Central Region ASPRS, 2004-2006
- Contributor to Central Region ASPRS newsletter
- Organized acquisition of funding for ASPRS Student Chapter field trip to EROS Data Center, Sioux Falls, SD
- Served as session moderator for ASPRS annual meetings, Anchorage, AK, May 2003 and Denver, CO, May 2004

University of Kansas Research Experience for Undergraduates (REU) Summer Program

- Guest Lecturer on Geographic Information Systems, Summer 2004

Kansas Field Station and Ecological Reserves (KSR)

- Prescribed Grassland Burn Crew Volunteer, 2003 – 2005
- Research presentation for the KSR Open House, Fall 2003
- Attended Prescribed Fire Safety Workshop, Kansas State University, Spring 2004

Frostburg State University

- Presenter, Family Weekend Science, Engineering, & Technology Showcase, 2006 – 2007
- Developed materials for the FSU Exploratorium: “What is Geography?” and “A Short Primer on North Pole Geography”
- Workshop for Allegany County Public Schools GEAR UP Program, summer 2007
- Workshop for FSU Regional Math & Science Center, summer 2007
- Workshop for FSU Upward Bound program, Spring 2008
- Faculty Handbook Subcommittee, 2007 – 2008

Department of Geography, Frostburg State University

- Chair, GEOG 103 Committee (2007 – present)
- Hosted local middle school Geography Bee finalists
- Geomorphologist Search Committee, Spring 2008
- Open House Events
- Career Expo Events

Association of American Geographers, Remote Sensing Specialty Group (RSSG)

- Invited judge, RSSG student illustrated paper competition, 2003 annual meeting
- Invited judge, RSSG student honors paper competition, 2007 annual meeting
- Invited judge, RSSG student honors paper and student illustrated paper competition, 2008 annual meeting

Reviewer for the following publications:

- Cartography and Geographic Information Science
- Remote Sensing of Environment
- Kansas Geological Survey, Current Research in Earth Sciences
- Geophysical Research Letters
- Prentice-Hall Geosciences (textbook and atlas reviews)
- Photogrammetric Engineering & Remote Sensing (book review)
- Journal of Environmental Management

Travel and Field Work

For a geographer, almost all travel should be considered professional experience; learning about diverse places, people, and environments is an important part of our discipline. I've had opportunity to travel extensively throughout the U.S. and Canada, often times cross-country. On recent trips to present research at professional meetings, I have visited places including Philadelphia, New Orleans, Anchorage, and San Francisco. In terms of personal travel, I've recently visited memorable places such as Natchez (MS), Duluth (MN), Newport (OR), Victoria (BC), Asheville (NC), Montreal (QC) and many others.

Through research activities or coursework, I have done fieldwork in many locations, including:

- Nebraska: Lincoln, Omaha, Ainsworth, Hartington, Ogallala; also Keith and Arthur Counties
- Kansas: Douglas, Jefferson, and Leavenworth Counties, and the Konza Prairie LTER Site
- Indiana: Indiana Dunes National Lakeshore
- Michigan: Sleeping Bear Dunes National Lakeshore
- Oregon: week-long course surveying the physical geography across the state
- Wyoming and Montana: Yellowstone National Park, Absaroka-Beartooth Wilderness Area
- Texas: Austin, San Marcos; Hays County

Other Notable Activities

- **National Outdoor Leadership School** (Summer 1997), Lander, WY
--Wilderness course focused on field orienteering, navigation, First Aid, and natural history
- **Self Graduate Fellowship Development Program** (2000-2004) – visit <http://www.ku.edu/~selfpro/> for program details.

Professional References

(professional relationship of referee is given)

Kevin P. Price, Ph.D. (Ph.D. Advisor)
Professor, Department of Geography
Associate Director, Kansas Applied Remote Sensing Program
University of Kansas
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785-864-1506 price@ku.edu

Bryan L. Foster, Ph.D. (Ph.D. committee, ecology instructor)
Associate Professor, Department of Ecology and Evolutionary Biology
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University of Kansas
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Terry Slocum, Ph.D. (Ph.D. committee, statistics and geo-visualization instructor)
Professor and Chair, Department of Geography
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1475 Jayhawk Blvd.
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Lawrence, KS 66045-7613, USA
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J. Ronald Eyton, Ph.D. (Master's Advisor, statistics and remote sensing instructor)
Professor, Department of Geography (retired)
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San Marcos, Texas 78666-4616, USA
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Texas State University – San Marcos
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Jerome E. Dobson, Ph.D. (GIS instructor)
Professor, Department of Geography
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Dennis Fitzsimons, Ph.D. (cartography instructor and Master's committee)
Associate Professor
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Stephen Egbert, Ph.D. (Ph.D. committee)
Associate Professor, Department of Geography
University of Kansas
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A. Jon Kimerling, Ph.D. (cartography instructor)
Professor, Department of Geosciences
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