

# KARL E. RYAVEC

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## Education:

- 1996-2002 University of Minnesota  
Major: Geography (Ph.D. May 2002)  
Dissertation title: *Land Use Change in Central Tibet, ca. 1830-2000.*
- 1987-1989 Harvard University, Cambridge  
Major: East Asian Regional Studies (A.M. June 1989)
- 1982-1986 Clark University, Worcester  
Major: Geography (A.B. June 1986)  
Minor: German

## Employment:

- 2002- Present Associate Professor, Department of Geography/Geology, University of Wisconsin, Stevens Point, Wisconsin.
- 1995-1996 Geographer, International Programs Center, U.S. Bureau of the Census, Washington, DC
- 1990-1994 Geographer, U.S. Defense Mapping Agency, Washington, DC

## Teaching Experience:

University of Wisconsin at Stevens Point:

- GEOG 120 Cultural Geography. (3 credits) Fall 2002, Spring 2003, Fall 2003, Spring 2004, Fall 2004, Spring 2005, Fall 2005, Spring 2006, Fall 2006, Spring 2007, Fall 2007.  
-lectures on major world cultures and regions focusing on interrelationships, including population, agriculture, religion, ethnicity, and politics. Online activities incorporated during Fall 2003: students take quizzes, and post homework assignments from *Human Geography in Action*. Also post weekly review of current newspaper article on an aspect of human culture, and critique a fellow student's review (on D2L).  
-also taught as a 3-week study tour to China and Tibet during first summer terms 2004 and 2005 examining Tibet's rapidly changing urban centers with focus on the traditional Tibetan neighborhoods of Lhasa, and the agricultural and religious geography of surrounding rural areas.
- GEOG 279 Fundamentals of Geographic Information Systems. (2 credits) Spring 2003, Fall 2003, Spring 2004, Winterim 2005, Spring 2005, Winterim 2006, Spring 2006, Winterim 2007, Spring 2007.  
-weekly lecture and GIS software instruction for digital lab assignments.
- GEOG 325 Geography of China (3 credits). Spring 2008.
- GEOG 327 Geography of Asia. (3 credits) Spring 2004, Spring 2005, Spring 2006, Spring 2007.  
-study of the diverse environmental and social factors that led to the mapping of Asia as a distinct world region concentrating on the historical development and contemporary situation of human cultures in Central, South, Southeast and East Asia.
- GEOG 476 Geographic Information Systems I. Section 1 (3 credits) Fall 2002, Fall 2003,

Fall 2004, Fall 2005, Fall 2006. Fall 2007.  
-lectures and weekly GIS lab tutorials.

Other schools:

*Raster-Based GIS*, University of Minnesota, Spring, 1998, 1999, 2000  
*Air Photo Interpretation*, North Hennepin Community College, Fall 1999  
*Introduction to Human Geography*, Concordia University, Fall 2001

## **Publications:**

Accepted:

*An Historical Atlas of Tibet*. Contract with the University of Chicago Press,  
2007. Expected publication date of 2009.

- 2008 Ryavec, K. E. The Tibetan and Himalayan Historical GIS: A Brief Introduction. *Historical GIS News* 10:4.
- 2007 Ryavec, K. E. Mapping Early Buddhist Sites in Western Tibet: Recent Findings from Tsamda County, China. *The Silk Road* 4(2):43-47.
- 2005 Ryavec, K.E. New Geographical History: A Reply to Bol. *Inner Asia* 7:257-260.
- 2005 Ryavec, K. E. Aerial Survey of Abandoned Agricultural Fields in the Ancient Tibetan Kingdom of Guge: Recent Findings from 2-foot Resolution Quick Bird Imagery of Bedongpo and Environs. *Aerial Archaeology Research Group Newsletter* 30:18-25.
- 2004 Ryavec, K. E. Manchu Empire or China Historical GIS? Remapping the China/Inner Asia Frontier in the Qing Period CHGIS. *Inner Asia* 6:179-195.
- 2003 Ryavec, K. E. Two GIS data sets and associated documentation published on-line in the Tibet Historical GIS of the Tibetan and Himalayan Digital Library (thdl.org). Data sets and documentation pertain to: 1) pre-Buddhist archaeological sites, 2) ca. 1830 agricultural tax units in relation to administrative districts of Central Tibet.
- 2001 Ryavec, K. E. Land Use Change in Central Tibet, ca. 1830-1990: Devising a GIS methodology to Study a Historical Tibetan Land Decree. *The Geographical Journal* 167:342-357.
- 1999 Ryavec, K. E. Research Note: Regional Dynamics of Tibetan Population Change in Eastern Tibet, ca.1940-1982. *Population and Environment* 20:247-257.
- 1998 Ryavec, K. E. and Veregin, H. Population and Rangelands in Central Tibet: A GIS-Based Approach. *GeoJournal* 44:61-72.
- 1998 Ryavec, K. E. Measuring Change in the Cultivated Land Area of the Khotan Oasis in Xinjiang, China, ca. 1913 to the 1980s: A Comparison of Historical Maps with a Contemporary GIS Database, pp. 31-36. (in) *Information Bases for Land Use/Cover Change Research: Proceedings of the 1997 International Geographical Union Study Group on Land Use/Cover Change Symposium, Brisbane, Australia*. Edited by Himiyama, Y. and Crissman, L.
- 1996 Ryavec, K. E. Geographic and Demographic Setting. pp. 61-116 (in) *India: A Country Study*, Fifth Edition. Federal Research Division, Library of Congress, Washington, DC: U.S. Government Printing Office.

- 1995 Ryavec, K. E. The Maldives. pp. 231-273 (in) *Indian Ocean: Five Island Countries*, Third Edition. Federal Research Division, Library of Congress, Washington, DC: U.S. Government Printing Office.
- 1995 Ryavec, K. E. Cartographic Survey of Dzong Sites in Central Tibet. *Himalayan Research Bulletin* 15(2):53-55.
- 1994 Ryavec, K. E. Important New Sources for the Study of Tibetan Geography: An Analysis of a Recent Chinese County Place Name Index of Dzamthang in Eastern Tibet. *Central Asiatic Journal* 38:214-234.
- 1993 Ryavec, K. E. Review of Lamas, Princes, and Brigands: Joseph Rock's Photographs of the Tibetan Borderlands of China, by Michael Aris, in *Mountain Research and Development*, 13:315.
- 1993 Ryavec, K. E. The Present-Day Value of Maps Illustrating the Archaeological Surveys of Sir Aurel Stein in Xinjiang and Gansu, China. *Journal of the Royal Asiatic Society*. (Third Series, Part 2). 3: 233-243.

## Papers and Invited Lectures

Abstracted:

- 2009 The Historical Diffusion of Islam in China: Mapping Religious Sites and Traditions. Association of Asian Studies Annual Meeting, Chicago.
- 2008 Situating the History of Islam in China and Inner Asia within Current Historical GIS Frameworks. Association of American Geographers Annual Meeting, Boston
- 2007 HGIS and Whither the Historical Atlas. Association of American Geographers Annual Meeting, San Francisco.
- 2006 New Towns in Tibet: Findings from China's 1990 and 2000 Censuses. Association of American Geographers Annual Meeting, Chicago.
- 2005 Cartographic and Textual Sources for the Amdo Tibetan Buddhist Monastery GIS: A Spatial Survey of New Research Findings. Association of Asian Studies Annual Meeting, Chicago.
- 2004 Integrated Field Research and Remote Sensing Survey of Ancient Farmland in Western Tibet. Joint Annual Meeting of the Association of American Geographers West Lakes Division and the Wisconsin Geographical Society, Oshkosh.
- 2004 Impacts of New Farmland Creation on Uighur Settlement Patterns in Xinjiang, China: A GIS-Based Assessment. Association of American Geographers Annual Meeting, Philadelphia.
- 2002 Tibet in the China Historical GIS: Mapping Interpretations of Ming and Qing Period Administrative Divisions. Association of American Geographers West Lakes Division Meeting, Minneapolis.
- 2002 GIS as a Research Tool in the Tibetan and Himalayan Digital Library. Association of American Geographers Annual Meeting, Los Angeles.

- 2001 Studying Pastoral Land Use in Tibet by Means of Remote Sensing and GIS. Association of American Geographers Annual Meeting, New York.
- 1999 Integrating Participatory Mapping of Pastoral Land Use in Tibet with a Regional Model of Population-Environment Interactions on the Tibetan Plateau. Geographic Information and Society Conference, University of Minnesota, Minneapolis.
- 1999 Historical Land Use/Cover Change in the Wei River Valley of Shaanxi, China. Association of American Geographers Annual Meeting, Honolulu.
- 1998 Ecoregions of Tibetan Medicinal Plants: From Traditional Texts to Current Conditions. First International Congress on Tibetan Medicine, Washington, DC.
- 1998 Development, Social Change, and Land Use/Cover Change in Central Tibet. Association of American Geographers Annual Meeting, Boston.
- 1997 Population and Rangelands in Central Tibet. International Geographical Union Commission on Sustainable Rural Systems, Joint Conference: Sustainable Rural Systems and Land Use/Cover Change, Armidale, Australia.
- 1997 Measuring Change in the Cultivated Land Area of the Khotan Oasis in Xinjiang, China, ca. 1913 to the 1980s: A Comparison of Historical Maps with a Contemporary GIS Database. International Geographical Union Land Use/Cover Change Open International Symposium, Information Bases for Land Use/Cover Change Research, Brisbane, Australia.
- 1997 Tibet's Changing Population. Association of American Geographers Annual Meeting, Fort Worth.
- 1995 Four Rivers, Six Ranges: Towards a Regional Systems Model of Kham (Eastern Tibet). Poster session. Association for Asian Studies Annual Meeting, Honolulu.
- 1992 Tibetan Place Names in the Context of the Preservation and Expression of Cultural Heritage. 27<sup>th</sup> International Geographical Congress, Washington DC.

Non-Abstracted:

- 2009 Research Models: Geography and GIS. Tibetan Studies and the Social Sciences: Data, Tools, Maps and Archives Conference, Columbia University.
- 2007 Mosques of Beijing: Sources and Methods for Mapping Islamic Sites in China. Atlas of Chinese Religions Conference hosted by ECAI (Electronic Cultural Atlas Initiative), University of California at Berkeley.
- 2004 Mapping Ancient Farmland in Western Tibet. Anthropology Club. University of Wisconsin at Stevens Point.
- 2003 Cultural Geography: Case Studies from China and Tibet. Faculty Forum. University of Wisconsin at Stevens Point.
- 2003 Pre-Buddhist settlement patterns in Upper Tibet A GIS-based regional survey of 468 sites in relation to contemporary human population densities. Anthropology Club. University of Wisconsin at Stevens Point.

- 2001 Digital Ethnography and GIS. Digital Tibet: Tibetan Studies and the Internet Conference, University of Virginia, Charlottesville.
- 2001 The Role of Remote Sensing and GIS in Development Projects. Second Brandeis Symposium on Development in Tibet, Brandeis University, Waltham.
- 1999 Pastoral Land Use in Central Tibet. Roundtable Symposium on Sustainable Development Strategies in Tibet, Brandeis University, Waltham.
- 1997 Amdo Monastery Survey. First International Conference of Amdo Studies, Harvard University, Cambridge.
- 1993 Explorers of the Eurasian Landmass. Smithsonian Institution, Campus on the Mall, Washington, DC.

### **Grants and Scholarships:**

- 2008 National Science Foundation, Geography and Regional Science Program, "The Changing Geography of Islam in China: A Survey of Historic Neighborhoods, Rural Enclaves, and New Settlement Patterns. Principal Investigator. \$59,914. over two years (2008-2009).
- 2006 Henry Luce Foundation, Research Grant, "Tibetan and Himalayan Historical Geographic Information System." \$325,000 over three years (2007-2009). Co-Principal Investigator with Prof. David Germano, Religious Studies Department, University of Virginia.
- 2006 L&S Enhancement Grant to hire 2 GIS students to work part-time on study of urban change in Beijing, China. \$960.
- 2006 L&S Minigrant for purchase of 2006 archived QuickBird imagery of Beijing, China. \$500.
- 2006 UWSP, College of Letters & Science, Faculty Development Grant to supplement 2006 UPDC grant for fieldwork in western China. \$1,000.
- 2006 UWSP UPDC grant, "Linking Archival Tibetan Tax Records with Maps of Historic Estate Areas in Western Tibet, China." \$5,000.
- 2006 Shelley and Donald Rubin Foundation, Research Grant, "Atlas of Himalayan Art History." \$5,000.
- 2005 UWSP UPDC grant, "Map of Cultural/Historical Sites in Central Tibet." \$2,362
- 2004 Shelley and Donald Rubin Foundation, Research Grant, "Prepare Digital Images of Traditional Tibetan Art." \$750.
- 2004 National Endowment for the Humanities, Website Educational Grant for the Rubin Museum of Art, New York. Sub-contract. Part of interdisciplinary research team. Individual responsibilities to make maps of Himalayan art style regions, and major cultural and natural sites relevant to the study of Buddhist art and culture. \$4,500.
- 2003 UWSP UPDC grant, "Integrated Study of Land Degradation and Farm Abandonment in Western Tibet." \$3,545.
- 2002 UWSP UPDC/New Faculty grant, "Remote Sensing Survey of Deforestation 1998-2002: Impacts on Long-Term Land Use/Settlement Patterns in the Tibet Autonomous Region, China." \$3,960.
- 2000 Shelley and Donald Rubin Foundation, Research Grant, "Map of Traditional Tibetan Art Schools." \$5,000.
- 1999 Summer Dissertation Research Fellowship, University of Minnesota. \$2,000.
- 1998 Summer Dissertation Research Fellowship, University of Minnesota. \$2,000.
- 1997 Harvard Yenching Library Research Grant. \$250.
- 1994 Explorers Club Grant. "Fish Farming Methods in China." \$1,200.
- 1994 National Geographic Society Research and Exploration Grant. "Traditional Tibetan Central

- Places.” \$2,450.
- 1993 National Geographic Society Research and Exploration Grant. “Dissertation Level Research for a Tibetan Place Name Index.” \$500.
- 1988 Massachusetts State Scholarship, Harvard University. \$10,000.
- 1986 Explorers Club Grant. “Landscape Modifications of Sponges in Harrington Sound, Bermuda.” \$800.

### **Professional Development:**

- 2007 Collaborative Learning Workshop at University of Wisconsin Stevens Point, May 18 and 22. Discussed strategies to incorporate collaborative student learning into GIS curriculum.
- 2004 Learning is Local Conference at University of Wisconsin Stevens Point, November 19. Attended one-day conference on incorporating service learning into academic curriculum.
- 2003 Faculty Workshop on Hybrid Course Development at University of Wisconsin Stevens Point, July 11, 18, 25, and August 1. Instruction in incorporating online course activities using D2L software, and discussion of online pedagogy.
- 2003 Workshop at the University of Virginia, June 24-27. Funded by the U.S. Dept. of Education. Development of on-line Tibet Historical GIS in the Environmental and Cultural Geography collection of the Tibetan and Himalayan Digital Library (thdl.org).
- 2003 Workshop at the University of Virginia, April 14-19. Funded by the U.S. Dept. of Education. Development of GIS data sets to support research activities associated with the Tibetan and Himalayan Digital Library.
- 2000 Workshop at the University of Virginia, March 9-13. Funded by the Center for South Asian Studies, UVA. Designing a GIS framework for the Tibetan and Himalayan Digital Library.

### **Professional Memberships:**

United States Board on Geographic Names (BGN; staff member 1990-1993)  
 Association of American Geographers (AAG)  
 Association for Asian Studies (AAS)

### **Language Proficiency:**

Fieldwork languages: Chinese, German  
 Archive/Library research languages: Chinese (classical), Tibetan, German, Japanese

### **University Service:**

#### Department Committees

Assessment Committee (2006-2007, 2007-2008)  
 Budget Committee, Library Budget (2002-2003)  
 Curriculum Committee (2002-2003, 2004-2005, 2005-2006, 2006-2007, 2007-2008)  
 Faculty Merit and Awards Committee (2003-2004, 2005-2006)  
 Student Affairs Committee (2004-2005)

Recruitment Committee, Urban/Economic Geographer (2006-2007)  
 Recruitment Committee, Human Geographer (2007-2008)

#### University Service

L&S Grant Initiative to fund chair in Chinese Studies, ad-hoc proposal writing committee (Fall 2007)  
Chair, Assistant Dean Search Committee (Spring 2005)  
American Democracy Project Advisory Group (2004, 2005)  
Letters and Science Dean's Advisory Committee (Spring 2003)  
GDR Sub-Committee (2005, 2006)  
Instructor for College Days for Kids "Cultural Geography of the Tibetan Plateau."  
UWSP. (2003, 2006).

#### Invited Presentations:

Mapping Ancient Farmland in Western Tibet. November 2004. Anthropology Club, UWSP.  
Pre-Buddhist settlement patterns in Upper Tibet A GIS-based regional survey of 468 sites in relation to contemporary human population densities. May 2003. Anthropology Club, UWSP.  
Cultural Geography: Case Studies from Tibet and China. January 2003. Faculty Forum. UWSP.  
Getting into Graduate School. March 2003. Student Chapter of the Society of American Foresters, College of Natural Resources. UWSP.  
Applying to Graduate School. October 2002. Geography Club, UWSP.