

*Curriculum Vitae*

**REX J. ROWLEY**

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**EDUCATION**

**Ph.D. Candidate in Geography:** University of Kansas, anticipated defense, January 2009

Dissertation: *The Other Side of Las Vegas: A Local Sense of Place.*

Advisor: James R. Shortridge

Emphasis: cultural geography and sense of place

Honors for qualifying exams completed November 2006

**M.A. in Geography:** University of Kansas, May 2005

Thesis: *Insuring the Range: Toward a Crop Insurance Program for Rangeland and Pasture.*

Advisor: Kevin P. Price

Emphasis: combining geographic techniques and environmental geography

**B.S. in Geography:** Brigham Young University, August 2002

Graduated *cum laude*

Emphasis: cultural and environmental geography

Minor: Japanese

Honors/Awards: Gamma Theta Upsilon; BYU Academic Scholarship

**PROFESSIONAL EXPERIENCE**

**Instructor of Geography/GIS:** Haskell Indian Nations University, 2007–present

**Adjunct Instructor of GIS:** Haskell Indian Nations University, 2005–2006

**Graduate Teaching Assistant:** Department of Geography, University of Kansas, 2002–2006

**Graduate Research Assistant:** Center for the Remote Sensing of Ice Sheets (CRISIS), University of Kansas, 2005–2006

**Graduate Research Assistant:** Kansas Applied Remote Sensing (KARS) Program, University of Kansas, 2002–2005

**Undergraduate Teaching/Research Assistant:** Department of Geography, Brigham Young University, 2001–2002

**COURSES TAUGHT**

**Undergraduate**

Principles of Physical Geography (Haskell)

Introduction to Human Geography (KU)

Introductory Lab in Physical Geography (KU)

**Upper-division Undergraduate**

Introduction to Geographic Information Systems (GIS) (Haskell & KU)

Applications of ArcGIS (Haskell)

Advanced GIS & GPS (Haskell)

Methods of Analyzing Geographical Data Laboratory (KU)

Introduction to Geographic Information Systems (GIS) Laboratory (KU & BYU)

Intermediate Geographic Information Systems (GIS) Laboratory (KU)

### PEER-REVIEWED PUBLICATIONS

- Li, Xingong, **Rex J. Rowley**, John C. Kostelnick, David Braaten, Joshua Meisel, and Kalonie Hulbutta. Accepted, April 2008 (In Press). "GIS Analysis of Global Inundation Impacts from Sea Level Rise." *Photogrammetric Engineering & Remote Sensing*.
- Kostelnick, John C., **Rex J. Rowley**, David McDermott, and Carol Bowen. Accepted, March 2008 (In Press). "Developing a GIS Program at a Tribal College." *Journal of Geography*.
- Rowley, Rex J.** 2008. "Extending the Security Net: The Impact of Rangeland Insurance on Ranching Economy and Culture." *Great Plains Quarterly* 28, no. 2: 91–104.
- Rowley, Rex J.**, Kevin P. Price, and Jude H. Kastens. 2007. "Remote Sensing and the Rancher: Linking Rancher Perception and Remote Sensing." *Rangeland Ecology & Management* 60, no. 4: 359–68.
- Rowley, Rex J.**, John C. Kostelnick, David Braaten, Xingong Li, and Joshua Meisel. 2007. "Risk of Rising Sea Level to Population and Land Area." *Eos Transactions* 88, no. 9 (27 February 2007): 105, 107.

### PUBLICATIONS (In Revision/Preparation)

- Rowley, Rex J.**, Jude H. Kastens, and Kevin P. Price. Submitted, May 2007 (In Revision). "Crop Insurance for Rangeland and Pasture: A Remote Sensing and GIS Solution." *International Journal of Remote Sensing*.
- Rowley, Rex J.** In Preparation. "Confronting the Unexpected: Las Vegas, Boulder Dam, and the Great Depression, 1928–1933."

### BOOK REVIEW

- Rowley, Rex J.** 2007. Review of: *Chicago: A Geography of the City and Its Region* By John C. Hudson. *Cultural Geographies* 14, no. 4: 628–29.

### OTHER PUBLICATIONS

- Anderson, Temashio, Kalonie Hulbutta, Josh Meisel, Lee Meisel, Carol Bowen, Lou Hara, John Kostelnick, Dave McDermott, and **Rex Rowley**. 2008. "Project Management: University Adds an Important Element to GIS Curriculum." *ESRI Educator*, Summer 2008, 3.
- Kostelnick, John, **Rex Rowley**, David McDermott, and Carol Bowen. 2008. "Sea Level Rise Modeling with GIS: A Small University's Contribution To Understanding A Global Dilemma." *Earthzine*, April 6, 2008. <http://www.earthzine.org/2008/04/06/sea-level-rise-modeling-with-gis-a-small-university-s-contribution-to-understanding-a-global-dilemma/>.

### GRANTS

- National Science Foundation: Co-principal investigator on "Collaborative Research: Functional genomics of animal dispersal and adaptation in a landscape," Pending (in review), with Carol Bowen (Haskell PI), Jim Marden (Penn State PI), and Brad Taylor (Dartmouth PI), \$488,016 (Haskell portion).
- Facilitator and research supervisor for Haskell collaboration in Center for Remote Sensing of Ice Sheets (CRISIS), a National Science Foundation (NSF) Science and Technology Center (STC), 2005–2010, with Carol Bowen (Haskell Co-PI), Prasad Gogineni (Director and PI), and David Braaten (Associate Director).

## BROADER IMPACT OF RESEARCH

Sea level rise research (Rowley et al., 2007 and Kostelnick et al., 2008) to be featured in upcoming issue of *Calypso Log*, the Cousteau Society's quarterly publication.

Haskell's GIS program was applauded in a recent edition of *AISES News*. Megginson, Robert E. 2008. "Native Americans at Forefront of All STEM Areas," *AISES News*, Winter 2008, 54.

Sea level rise research (Rowley et al., 2007) data is used in NASA's Jet Propulsion Lab "Climate Time Machine." See <http://climate.jpl.nasa.gov/ClimateTimeMachine/climateTimeMachine.cfm> (accessed September 5, 2008).

Sea level rise research (Rowley et al., 2007) featured in online edition of the German magazine *Der Spiegel*. Bojanowski, Von Axel. May 8, 2007. "Sintflut-Prognose bringt Forscher ins Schwimmen," *Spiegel Online*, <http://www.spiegel.de/wissenschaft/natur/0,1518,481430-2,00.html> (accessed September 5, 2008).

## RESEARCH PRESENTATIONS

**Rowley, Rex J.** 2008. "Techniques for GIS Instruction: The Haskell Experience." Access Native America 11<sup>th</sup> Annual Technology Conference, Lawrence, Kansas, June 3–5, 2008.

**Rowley, Rex J.** 2008. "Neon Beyond the Neon: Landscapes of Neighborhood Casinos in Las Vegas." Annual Meeting of the Association of American Geographers, Boston, Massachusetts, April 15–19, 2008.

**Rowley, Rex J.** 2007. "The Other Side of Las Vegas: A Local's Sense of Place." Annual Meeting of the Association of American Geographers, San Francisco, California, April 17–21, 2007.

**Rowley, Rex J.,** John Kostelnick, and Carol Bowen. 2006. "Developing a GIS Program at a Native American University." Annual Meeting of the National Council for Geographic Education, South Lake Tahoe, Nevada, October 5–8, 2006.

**Rowley, Rex J.** 2006. "A Changing Las Vegas Community: The Coming of Hoover Dam." Annual Meeting of the Association of American Geographers, Chicago, Illinois, March 7–11, 2006.

Li, Xingong, **Rex J. Rowley,** Joshua Meisel, John Kostelnick, and David Braaten. 2006. "GIS Analysis of Global Risk Area and Population Affected by Sea Level Rise." Annual Meeting of the Association of American Geographers, Chicago, Illinois, March 7–11, 2006.

Kostelnick, John, and **Rex J. Rowley.** 2005. "GIS Activities at Haskell Indian Nations University." 4<sup>th</sup> Annual KU GIS Day Symposium, Lawrence, Kansas, November 16, 2005.

Price, Kevin P., Jude H. Kastens, and **Rex J. Rowley.** 2005. "National Rangeland Drought Damage Assessment." 4<sup>th</sup> Annual KU GIS Day Symposium, Lawrence, Kansas, November 16, 2005.

**Rowley, Rex J.,** Kevin P. Price, and Jude H. Kastens. 2005. "Remote Sensing and the Rancher: Linking Rancher Perception of Drought and Remote Sensing." Annual Meeting of the Association of American Geographers, Denver, Colorado, April 5–9, 2005.

**Rowley, Rex J.** 2004. "Rangeland Remote Sensing and the Rancher." 3<sup>rd</sup> Annual KU GIS Day Symposium, Student Research Competition, Lawrence, Kansas, November 17, 2004.

**Rowley, Rex J.** and Matthew E. Ramspott. 2003. "Object-based Classification of Rural Northeast Kansas Grassland Cover Types Using High-resolution Aerial Imagery." Annual Meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers, Manhattan, Kansas, October 4, 2003.

## POSTER PRESENTATIONS

- Fusco, Audrey, Joshua Meisel, Kalonie Hulbutta, RaeLynn Butler, Myron Shield, Vernon Dempsey, Lee Meisel, John Kostelnick, David McDermott, and **Rex J. Rowley**. 2008. "Project-based GIS Learning at Haskell Indian Nations University." Annual Meeting of the Association of American Geographers, Boston, Massachusetts, April 15–19, 2008.
- Dempsey, Vernon, **Rex J. Rowley**, John Kostelnick, and Joel Plummer. 2007. "Using GIS to Map Polar Ice Sheet Data." American Indian Science and Engineering Society National Conference, Phoenix, Arizona, November 1–3, 2007.
- McDermott, Dave, John Kostelnick, Kalonie Hulbutta, Joshua Meisel, **Rex J. Rowley**, Xingong Li, David Braaten, and Nathaniel Haas. 2007. "Visualizing Sea Level Rise." Annual Meeting of the North American Cartographic Information Society, St. Louis, Missouri, October 10–13, 2007.
- Rowley, Rex J.** 2005. "Decision Support for Rangeland Crop Insurance." KU Graduate Research Competition, Lawrence, Kansas, March 1, 2005.
- Rowley, Rex J.** 2005. "Remote Sensing and the Rancher: Linking Rancher Perception and Satellite Remote Sensing." Graduate Research Summit – Kansas State Capitol Building, Topeka, Kansas, March 2, 2005.

## AWARDS and RECOGNITION

- Gerald E. Gipp Scholarship, Haskell Indian Nations University RED Center**, release-time grant to complete doctoral dissertation, 2008.
- University of Kansas Graduate School Travel Grant** to attend and present at Association of American Geographers meetings in San Francisco, 2007.
- First Place, KU Graduate Research Competition** for *Decision Support for Rangeland Crop Insurance* at KU Graduate Research Competition on 1 March 2005 in Lawrence, Kansas.
- First Place, Student Research Competition** for *Rangeland Remote Sensing and the Rancher* at 3<sup>rd</sup> Annual KU Geography Department GIS Day Student Research Competition on 17 November 2004 in Lawrence, Kansas.
- First Place, Student Paper Competition** for *Object-based Classification of Rural Northeast Kansas Grassland Cover Types Using High-resolution Aerial Imagery* (with Matthew Ramspott) at Annual Meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers on 4 October 2003 in Manhattan, Kansas.

## SERVICE ACTIVITIES

- Faculty Representative, Haskell Chapter of LDSSA:** Haskell Indian Nations University, 2008–present
- Metropolitan Police Department, Citizen's Police Academy:** Las Vegas, Nevada, Summer 2007
- Faculty Search Committee Member:** Department of Geography, University of Kansas, 2005–2006
- Colloquium Committee Member:** Department of Geography, University of Kansas, 2004–2006
- Graduate Student Organization Vice President/Secretary:** Department of Geography, University of Kansas, 2004–2005
- KU Geography Club Founding Officer:** University of Kansas, 2002–2004
- Volunteer Representative:** The Church of Jesus Christ of Latter-day Saints – Kobe Japan, 1996–1998
- Eagle Scout:** Boy Scouts of America, June 1995

## **TECHNICAL/COMPUTER SKILLS**

### **Technical Skills**

Thematic cartographic construction  
Geographic information systems analysis  
Digital image processing and interpretation  
Photogrammetry and visual image interpretation  
Visual Basic programming  
GIS Customization in ArcObjects

### **Software**

ArcGIS 8.x – 9.x  
ArcView 3.x  
ERDAS IMAGINE  
SPSS 11.x – 13.x  
Microsoft Windows and Mac OS 9.x & X

## **LANGUAGE AND TRAVEL EXPERIENCE**

Fluent in conversational Japanese  
Resided two years in Kansai region of Japan  
Traveled extensively in the United States