♦ DR. KELLEY A. CREWS ♦

GEOGRAPHY & THE ENVIRONMENT • UNIVERSITY OF TEXAS AT AUSTIN • 78712 • USA

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ASSOCIATE PROFESSOR

WITH AFFILIATIONS AT

POPULATION RESEARCH CENTER, CENTER FOR SPACE RESEARCH, ENVIRONMENTAL SCIENCE INSTITUTE & LOZANO LONG INSTITUTE FOR LATIN AMERICAN STUDIES

AREAS OF EMPHASIS

Landuse Change Ecology & Management, GIS & Remote Sensing, Environmental Policy Analysis, and Population-Environment Interactions

With 14 Years Field Experience in the Global Tropics: Okavango Delta & Kalahari – Botswana, western Amazon (Peru and Ecuador), the Peruvian Andes, and Northeast Thailand

EDUCATION

| 2000 | Ph.D. | University of North Carolina at Chapel Hill – Geography |
|------|----------|---|
| 2000 | M. Cert. | University of North Carolina at Chapel Hill – Public Policy |
| 1995 | M.A. | University of South Carolina – Government / International Studies |
| 1992 | B.S. | University of South Carolina – Marine Science |
| | | With Honors from South Carolina Honors College |

APPOINTMENTS

University of Texas at Austin

| 2009 – 2010 | Faculty Fulbright Fellow, Africa Regional Research | | |
|----------------|--|--|--|
| | Program, HIV/AIDS call # 9044 | | |
| 2005 – present | Associate Professor, Geography & the Environment | | |
| 2001 – 2009 | Founder & Director, Geographic Information Science Center | | |
| 2001 – 2006 | Director, Computing Systems, Department of Geography & the | | |
| | Environment | | |
| 2001 – 2005 | Assistant Professor, Geography & the Environment | | |
| 2001 – 2004 | Associate Director, Environmental Science Institute | | |
| | | | |

University of North Carolina at Chapel Hill

| 2000 | Post-doctoral Researcher, Geography / |
|-------------|---|
| | Landscape Characterization & Spatial Analysis Lab |
| 1997 – 2000 | Research Assistant, Geography / |
| | Landscape Characterization & Spatial Analysis Lab |
| 1997 – 1999 | Instructor of Record, Geography |
| 1996 – 1997 | Instructor of Record, Public Policy Analysis |

BOOKS AND EDITED COLLECTIONS:

- *B.H. King and **K.A. Crews**, Eds. Forthcoming (under contract for 2011 completion). *Ecologies and Politics of Health*, Routledge Press / Taylor and Francis Group, Routledge Studies in Human Geography Series, 110,000 words.
- 2) *K.R. Young and **K.A. Crews-Meyer**, Guest Eds, 2006. "Form, Process, and Function: Coalescing Geographic Frontiers" in *Professional Geographer*, Focus section, 58(4):367-447.
- *S.J. Walsh and **K.A. Crews-Meyer**, Eds, 2002. *Linking People, Place, and Policy: A GlScience Approach*, Kluwer Academic Publishing, Boston. 360pp.

JOURNAL ARTICLES, BOOK CHAPTERS AND PROFESSIONAL REPORTS:

- 1) T. Meyer, **K.A. Crews**, K. Ross, S. Bourquin, D. Gibson, and C. Craig. 2010. "Consultancy to Identify Important Habitats for Key Wildlife in the Western Kgalagadi Conservation Corridor (WKCC)", Conservation International, 268 pp.
- 2) K.A. Crews. 2010. "Remote Sensing and Population-Environment Community Needs", Expert Statement (Invited) for PERN (Population-Environment Research Network) Cyberseminar, Hosted by Columbia University's Earth Institute.
- 3) **K.A. Crews** and T. Meyer. 2010. "Mkgadikgadi Remote Sensing Project (Vegetation Mapping)", for Centre for Applied Research for Botswana Ministry of Environment, Wildlife and Tourism, 10 pp.
- *K.A. Crews and A. Moffett**. 2009. "Importance of input classification to graph automata simulations of forest cover change in the Peruvian Amazon", Chapter 9, in *Reforesting Landscapes: Linking Pattern and Process*, Eds. H. Nagendra and J. Southworth. Springer Press.
- *K.A. Crews and S.J. Walsh. 2009. "Remote Sensing and the Social Sciences" in *Handbook of Remote Sensing*, Chapter 31, pp. 437-435, Eds. T. Warner, D. Nellis, and G. Foody. Sage Publications.
- *S. Sarkar, **K.A. Crews**, K.R. Young, C.D. Kelley**, and A. Moffett**. 2009. "A Dynamic Graph Automata Approach to Modeling Landscape Change in the Andes and the Amazon" in *Environment and Planning B: Planning and Design* 36:300-318.
- 7) *A.L. Neuenschwander** and **K.A. Crews**. 2008. "Disturbance, Management, and Landscape Dynamics: Wavelet Analysis of Vegetation Indices in the Lower Okavango Delta, Botswana" in *Photogrammetric Engineering and Remote Sensing* 74(6):753-764.
- *A.L. McCleary**, **K.A. Crews-Meyer**, and K.R. Young. 2008. "Refining Forest Classifications in the Western Amazon Using an Intra-Annual Multi-Temporal Approach" in *International Journal of Remote Sensing*: 29:991-1006.
- 9) *K.A. Crews-Meyer. 2008. "Landscape dynamism: disentangling thematic versus structural change in northeast Thailand", pp.99-118, in R. J. Aspinall and M. J. Hill (Eds) *Land use change: science, policy and management*, CRC Press, New York, 250 pp.
- 10) ***K.A. Crews** and M.F. Peralvo**. 2008. "Segregation and Fragmentation: Extending Pattern Metrics Analysis to Spatial Demography" in *Population Research and Policy Review* 27:65-88, special issue on "Spatial Demography" (Ed. P. Voss).
- 11) *J. Postigo**, K.R. Young, and **K.A. Crews**. 2008. "Change and Continuity in a Shepherd Community in the High Peruvian Andes", *Human Ecology* 36:535–551.

- 12) *K.A. Crews-Meyer. 2006. "Temporal Extensions of Landscape Ecology Theory and Practice: LULCC Examples from the Peruvian Amazon" in *Professional Geographer*, Focus section, 58(4):421-435.
- 13) **K.A. Crews-Meyer** and K.R. Young. 2006. "Introduction" for "Form, Process, and Function: Coalescing Geographic Frontiers" in *Professional Geographer*, Focus section, 58(4):367-368.
- 14) *D.B. Kintz**, K.R. Young, and **K.A. Crews-Meyer**. 2006. "Implications of Land Use/Land Cover Change in the Buffer Zone of a National Park in the Tropical Andes" in *Environmental Management* 38(2): 238 252.
- *S.B. Adamo** and **K.A. Crews-Meyer**. 2006. "Aridity and desertification: exploring environmental hazards in Jáchal, Argentina" in *Applied Geography* 26 (1): 61-85.
- *M.H. Polk**, K.R. Young, and K.A. Crews-Meyer. 2005. "Biodiversity Conservation Implications of Landscape Change in an Urbanizing Desert of Southwestern Peru" in *Urban Ecosystems* 8: 313– 334.
- 17) ***K.A. Crews-Meyer**. 2004. "Agricultural Landscape Change and Stability: Historical Patch-Level Analysis" in *Agriculture, Ecosystems, and Environment* 101: 155-169.
- 18) *K.A. Crews-Meyer, P.F. Hudson, and R. Colditz**. 2004. "Principle Component Analysis for aid in Change Detection: Assessing Geomorphological Change of the Rio Panuco, Mexico" in *Geocarto International*, 19(1): 1-12.
- 19) *W. Gordon** and **K.A. Crews-Meyer**. 2004. "Assessing land-cover change in watersheds of the Hydro-Climatic Data Network Using NALC Imagery" in *GIScience and Remote Sensing* (formerly *Mapping Sciences and Remote Sensing*), 41(4): 322-346.
- *S.J. Walsh, D.R. Butler, G.P. Malanson, K.A. Crews-Meyer, J.P. Messina, and N. Xiao, 2003. Mapping, Modeling, and Visualization of the Influences of Geomorphic Processes on the Alpine Treeline Ecotone, Glacier National Park, Montana, USA. Geomorphology, 53(1-2): 129-145.
- *K.A. Crews-Meyer, 2002. "Characterizing Landscape Dynamism via Paneled-Pattern Metrics" in *Photogrammetric Engineering and Remote Sensing*, 68(10): 1031-1040.
- *S.J. Walsh, J.P. Messina, **K.A. Crews-Meyer**, R.E. Bilsborrow, and W. K.T. Pan, 2002. Characterizing and Modeling Patterns of Deforestation and Agricultural Extensification in the Ecuadorian Amazon. In: *Linking People, Place, and Policy: A GlScience Approach* (S.J. Walsh and **K.A. Crews-Meyer**, editors), Kluwer Academic Publishers, Boston, pp. 187-214.
- *S.J. Walsh, R.E. Bilsborrow, S.J. McGregor, B.G. Frizzelle, J.P. Messina, W.K.T. Pan, K.A. Crews-Meyer, G.N. Taff, F. Buquero, 2002. Integration of Longitudinal Surveys, Remote Sensing Time-Series, and Spatial Analyses: Approaches for Linking People and Place. In: People and the Environment: Approaches for Linking Household and Community Surveys to Remote Sensing and GIS, (J. Fox, R.R. Rindfuss, S.J. Walsh, V. Mishra, editors), Kluwer Academic Publishers, Boston, pp. 91-130.
- *S.J. Walsh, **K.A. Crews-Meyer**, T.W. Crawford, and W.F. Welsh, 2002 and reprinted 2004. Population and Environment Interactions: Spatial Considerations in Landscape Characterization and Modeling. *Scale and Geographic Inquiry: Nature, Society, and Method* (R. McMaster and E. Sheppard, editors), Blackwell Publishers, Oxford, pp. 41-65.
- 25) K.A. Crews-Meyer, 2002. "Challenges for GIScience: Assessment of Policy Relevant Human-Environment Interactions" in S.J. Walsh and K.A. Crews-Meyer (Eds) *Linking People, Place, and Policy: A GIScience Approach*, Kluwer Academic Publishing, Boston, pp. 1-5.
- 26) ***K.A. Crews-Meyer**, 2001. "Assessing Landscape Change and Population-Environment Interactions via Panel Analysis" in *Geocarto International*, 16(4): 69-79.

- *S.J. Walsh, T.W. Crawford, W.F. Welsh, and **K.A. Crews-Meyer**. 2001. A Multiscale Analysis of LULC and NDVI Variation in Nang Rong District, Northeast Thailand. *Agriculture Ecosystems and Environment*, 85(1-3): 47-64.
- *S.J. Walsh, K.A. Crews-Meyer, T.W. Crawford, W.F. Welsh, B. Entwisle, and R.R. Rindfuss, 2001. Patterns of Change in Land Use / Land Cover and Plant Biomass: Separating Intra- and Inter-Annual Signals in Monsoon-Driven Northeast Thailand. Remote Sensing and GIS Applications in Biogeography and Ecology (A.C. Millington, S.J. Walsh, and P.E. Osborne, editors), Kluwer Academic Publishers, Boston, pp. 91-108.
- *J.P. Messina and K.A. Crews-Meyer. 2000. "A Historical Perspective on the Development of Remotely Sensed Data as Applied to Medical Geography" in *Spatial Analysis, GIS, and Remote Sensing Uses in the Health Sciences*, eds. D. Albert, W. Gesler, and B. Levergood. Ann Arbor Press, Chelsea, Michigan, pp. 129-146.
- *J.P. Messina and K.A. Crews-Meyer. 2000. "The Integration of Remote Sensing and Medical Geography: Process and Application" in *Spatial Analysis*, GIS, and Remote Sensing Uses in the Health Sciences, eds. D. Albert, W. Gesler, and B. Levergood. Ann Arbor Press, Chelsea, Michigan, pp. 147-168.
- 30) *Songer, D.R. and **K.A. Crews-Meyer**. 2000. "Does Judge Gender Matter? Decision Making in State Supreme Courts" in *Social Science Quarterly* 81:750-762.
- 31) *T.W. Crawford, **K.A. Crews-Meyer**, and S.J. Walsh. 1999. "Instructional Technologies and the Internet: Options and Possibilities for Geographic Information Science Education" in *Geocarto International*. 14(2): 1-8.
- *Bowman, A.O'M. and **K.A. Crews-Meyer**. 1997. "Locating Southern LULUs [Locally Unwanted Land Uses]: Race, Class, and Environmental Justice" in *State and Local Government Review* 29: 110-119.
- *K.A. Crews-Meyer. 1994. "Hazardous Waste and Race in South Carolina" in *Forum*. Columbia, SC: Institute of Public Affairs, 5(3): 25-29.

PROCEEDINGS, ENCYCLOPEDIA ENTRIES, AND NEWSLETTERS (NO PUBLISHED ABSTRACTS):

- 1) K. Meyer and T.Meyer. 2011, in press. "Longhorns in Botswana" (~ 500 words) in *The Zambezi Traveller* (Kasane, Botswana).
- 2) K. Meyer and T.Meyer. 2011, in press. "Return of the Flood" (~ 500 words) in *The Zambezi Traveller* (Kasane, Botswana).
- 3) K. Meyer and T. Meyer. 2011, in press. "Fluid Lives: Cycles of the Boteti" (~ 500 words) in *The Zambezi Traveller* (Kasane, Botswana).
- 4) T. Meyer and K. Meyer. 2011, in press. "A Potential Wildlife Corridor Linking KTP and CKGR" (~ 500 words) in *The Zambezi Traveller* (Kasane, Botswana).
- 5) T. Meyer and K. Meyer. 2011. "Botswana's Megatransect" (~ 500 words) in *The Zambezi Traveller* (Kasane, Botswana).
- 6) **K.A. Crews-Meyer**. 2007. "Remote Sensing (1200 words)" in *Encyclopedia of Environment & Society*, Ed. Paul Robbins, Sage Publications, Thousand Oaks, California.
- 7) A.L. Neuenschwander** and **K.A. Crews-Meyer**, 2006. "Multi-temporal Mapping of Disturbances in the Okavango Delta, Botswana using Landsat TM and ETM+ data" in *Proceedings of the 2006 IEEE International Geoscience and Remote Sensing Symposium*; peer-review abstract competition.
- *K.A. Crews-Meyer, 2006. "Change detection" in *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*, Ed. Helmut Geist, Greenwood: Connecticut, pp. 106-110.

- 9) *K.A. Crews-Meyer and A.L. Norman**, 2006. "Savannization" in *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*, Ed. Helmut Geist, Greenwood Publishing Group: Connecticut, pp. 524-527
- *K.A. Crews-Meyer, 2006. "Pattern metrics" in Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change, Ed. Helmut Geist, Greenwood Publishing Group: Connecticut, pp. 460-461
- 11) *K.A. Crews-Meyer and A.L. Norman**, 2006. "Access" in *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*, Ed. Helmut Geist, Greenwood Publishing Group: Connecticut, pp. 1-2.
- 12) *K.A. Crews-Meyer and A.L. Neuenschwander**, 2006. "Global Positioning System" in *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*, Ed. Helmut Geist, Greenwood Publishing Group: Connecticut, pp. 262-263.
- *K.A. Crews-Meyer and A.L. Neuenschwander**, 2006. "Airborne Light Detection and Ranging" in Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change, Ed. Helmut Geist, Greenwood Publishing Group: Connecticut, pp. 38.
- 14) *Walsh, S.J., **K.A. Crews-Meyer**, and J.P. Messina. 2003. "Landscape Variation in Frontier Environments: The Case of Agricultural Extensification in Ecuador and Thailand." *Proceedings of the 4th International Conference on Integrating GIS and Environmental Modeling*, Banff, Canada. #420.
- 15) S.J. Walsh and **K.A. Crews-Meyer**, 2001. Remote Sensing and GIS Applications for Linking People, Place, and Policy. *LUCC (Land Use and Land Cover Change) Newsletter*, International Geosphere-Biosphere Program, 7: 5.
- 16) Messina, J.P., **K.A. Crews-Meyer**, and S.J. Walsh. 2000. Scale Dependent Pattern Metrics and Panel Data Analysis as Applied in a Multiphase Hybrid Landcover Classification Scheme. *Proceedings of the 2000 American Society for Photogrammetry and Remote Sensing (ASPRS) Conference*; peer-review abstract competition.
- 17) K.A. Crews-Meyer. 1999. "Modeling Vegetation Change and Road Corridors in Northeast Thailand: Integrating Vegetation Indices and Accessibility Surfaces" in Papers and Proceedings of the 1999 Applied Geography Conference 22: 407-415.
- 18) Messina J.P. **K.A. Crews-Meyer**, and G. Valdivia. 1998. "The Evaluation of Preprocessing Levels and Classification Techniques towards the Better Discrimination of Suspended Particulates." *Proceedings of the 1998 American Society for Photogrammetry and Remote Sensing Conference*; peer-review abstract competition.

THESES AND DISSERTATIONS:

- **K.A. Crews-Meyer**. 2000. *Integrated Landscape Characterization via Landscape Ecology and GIScience:* A Policy Ecology of Northeast Thailand, Ph.D. Dissertation for University of North Carolina at Chapel Hill. Adviser Dr. Stephen J. Walsh (Geography); Committee Members Dr.s Richard N.L. Andrews (Environmental Policy; Public Policy and Analysis), Thomas M. Whitmore (Geography), David E. Greenland (Geography), Ronald R. Rindfuss (Sociology), and Barbara Entwisle (Sociology).
- **K.A. Crews-Meyer**. 1995. *Judge Decision Making in State High Courts: Environmental Cases*, Masters Thesis. University of South Carolina. Adviser Dr. Donald R. Songer; Committee Members Dr.s William G. Jacoby and Ann O'M. Bowman (all Government and International Studies).
- **K.A. Crews-Meyer**. 1993. *Race and Hazardous Waste in South Carolina*, Undergraduate Thesis for South Carolina Honors College, University of South Carolina. Adviser Dr. Ann O'M. Bowman.

SUCCESSFUL & PENDING GRANTS & FELLOWSHIPS (** DENOTES STUDENT)

- 1) **K.A. Crews**. Humanities Institute Faculty Fellow (Theme: Public/Private), "Reading the Public, Shrinking the Private: The Ethics of Satellite Surveillance Technologies", one course release, 2012.
- 2) **K.A. Crews** (PI), B.H. King, and K.R. Young. Awarded, NSF / BCS / GSS # 0964596, "Environmental Uncertainties and Livelihood Thresholds in the Okavango Delta, Botswana", \$606,367 / 3 years.
- 3) T. Meyer. Awarded, Conservation International tender, "Spatial Analysis of the Western Kgalagadi Conservation Corridor (WKCC)", BWP 250,000 / 1 year. **K.A. Crews**, lead consultant, remote sensing, suitability, and fragmentation analyses; fee waived for NGO, 2010.
- 4) **K.A. Crews**. Awarded, Attendee, C2S: Cells to Society, The Center for Social Disparities and Health, Northwestern University's Biomarker Workshop, 7 9 June 2010.
- T. Meyer. Awarded, Centre for Applied Research for Botswana Ministry of Environment, Wildlife and Tourism tender, "Inception Report: Vegetation Assessment, Mkgadikgadi Pans National Park". K.A. Crews, lead consultant, remote sensing time series vegetation assessment, BWP 83,000 / 1 year.
- 6) **K.A. Crews**. Awarded, Faculty Fulbright fellowship. for "The Ecology of Rural HIV/AIDS: Forecasting HIV/AIDS Vulnerable Landscapes and Populations in the Okavango Delta, Botswana", Fulbright Foundation managed by Council for International Exchange of Scholars (CIES), \$55,055, 2009-2010.
- 7) K.A. Crews and B.H. King. Awarded. NSF / BCS / GSS RAPID # 0942211, "RAPID: Perception of and Adaptation to Extreme Flooding Disturbances in the Okavango Delta, Botswana", \$25,708 / 1 year.
- 8) K.A. Crews, S. Sarkar, A. Weinreb, M. Hayward, and A.L. Neuenschwander. Under revision for resubmission at NIH (National Institutes of Health), "Predicting Climate Change Impacts on HIV Risk in Botswana". \$769,537 / 2 years.
- 9) K.A. Crews and T. Meyer. Approved for round 1, under review for final round funding, National Geographic Society. "BAOBAB: Understanding & Preserving Botswana's Tree of Life": \$19,531 / 1 year.
- 10) **K.A. Crews**. Population Research Center Summer Fellow for proposal "Disease Vulnerabilities in the Okavango Delta", \$9511, June August 2008.
- 11) **K.A. Crews**. Humanities Institute Faculty Fellow (Theme: The Human and its Other), "The Ecology of HIV/AIDS & Cofactors in Sub-Saharan Africa: Forecasting HIV/AIDS-Vulnerable Landscapes and Populations", one course release, 2007 2008.
- 12) K.A. Crews (supervisor) and J.E. Miller**. Awarded. Fulbright [student] fellowship for "Modeling Impala Movement using Satellite Telemetry: Management and Conservation Implications" in affiliation with the University of Botswana, Fulbright managed by Council for International Exchange of Scholars (CIES), \$26,000, 2008-2009.
- K.A. Crews. Awarded, NSF BCS/GRS (National Science Foundation, Division of Behavioral and Cognitive Sciences, Geography and Regional Sciences) as SGER (Small Grants for Exploratory Research), "Calibrating the Dynamism of Vulnerability in the Western Amazon", \$44,421 / 19 months, 2006 2008.
- 14) K.A. Crews and O. Wang**. Awarded*, Doctoral Dissertation Research Improvement Grant (DDRI) # BCS— 0726797, "Multilevel Modeling of Household and Accessibility-Zone Drivers of Land Change in the Northeastern Peruvian Amazon", NSF/BCS/GRS, \$12,000, 18 months, 2006-2008.

- 15) K.A. Crews and M. Cardozo**. Doctoral Dissertation Research Improvement Grant (DDRI) # BCS— 0623229, "Multilevel Modeling of Household and Accessibility-Zone Drivers of Land Change in the Northeastern Peruvian Amazon", NSF/BCS/GRS, \$12,000, 18 months, 2006-2008.
- K.A. Crews-Meyer, Instructional Technology Grant (ITG) by University of Texas College of Liberal Arts (CLA) for "Environmental Information Systems Analysis," \$36,500 for FY summer 2006 and FY 2006-2007.
- 17) **K.A. Crews-Meyer,** Instructional Technology Grant (ITG) by University of Texas College of Liberal Arts (CLA) for "Implementing Spatial Technologies," \$65,955 (\$42,195 for software/equipment plus \$23,800 computers) for FY summer 2005 and FY 2005-2006.
- 18) **K.A. Crews-Meyer**, \$102,500 (\$32,500 for equipment/travel, \$45,000 for computer server, and \$70,000 staff and student wages) for Geographic Information Science Center from the College of Liberal Arts (CLA) at the University of Texas for supporting spatial analysis at the Population Research Center, 2005.
- K.A. Crews-Meyer, Research Grant from Vice President for Research at the University of Texas for "Assessing Landscape Responses to Disturbance Regimes: A Comparison of the Edwards Plateau, central Texas, USA and the Okavango Delta, Botswana" \$6000 / 1 year. Awarded 2004-2005; deferred to 2005/2006.
- 20) **K.A. Crews-Meyer**, Instructional Technology Grant (ITG) by University of Texas College of Liberal Arts (CLA) for "Digital Geographies," \$71,000 for FY 2004-2005.
- 21) **K.A. Crews-Meyer** and A.L. Neuenschwander**. Earth Systems Science Graduate Fellowship, "Characterization of the Interaction between Water and Vegetation in the Okavango Delta, Botswana", NASA (National Aeronautics and Space Administration) project # NNG04GR09H, \$72,000, 3 years, 2004-2007.
- K.A. Crews-Meyer and A.L. Neuenschwander**. Doctoral Dissertation Research Improvement Grant (DDRI) # BCS—0503178, "Vegetation Processes as Mediated by Flooding and Fire in the Okavango Delta, Botswana", NSF BCS/GRS (National Science Foundation, Division of Behavioral and Cognitive Sciences, Geography and Regional Sciences), \$8,970, 2 years, 2004-2006.
- 23) K.A. Crews-Meyer, Mellon Faculty Summer Travel Award by the University of Texas Institute of Latin American Studies for "A Feasibility Analysis of Student Projects Integrating Remote Sensing, GIS, and Field-based Studies", \$2983, Summer 2004.
- 24) **K.A. Crews-Meyer**, Dean's Fellow Award by the University of Texas CLA; one semester teaching leave for research project "Integrating Remote Sensing, Geographic Information Systems (GIS), and Fieldwork for Managing Savanna Ecotone Processes in the Edwards Plateau", approximate value \$11,416, Fall 2004.
- 25) **K.A. Crews-Meyer**, K.R. Young, and Amy Norman**. NASA (National Aeronautics and Space Administration) access to and data credits for restricted RADARSAT data for "Multi-seasonal Characterization of Land Use / Land Cover in the Western Amazon, Peru." December 2004 to present.
- **K.A. Crews-Meyer**, Instructional Technology Grant (ITG) by University of Texas College of Liberal Arts (CLA) for \$64,520 for FY 2003-2004.
- 27) **K.A. Crews-Meyer**, Summer Research Award (SRA) by the University of Texas for "Creating Indicators of Human-Environment Interactions: Landcover and Landuse Change in the Peruvian Andes"; two months' summer support for research and writing, approximate value \$13,556, 2003.
- 28) **K.A. Crews-Meyer** and Kenneth R. Young, \$10,000 from the Population Research Center of University of Texas for "Urbanization and Accessibility in the Peruvian Amazon", 2002-2004.

- 29) **K.A. Crews-Meyer** and Kenneth R. Young, \$23,500 from the Population Research Center Mellon Grant of University of Texas for "Andean Landuse/Landcover Change: Linking Social and Environmental Indicators", 2001-2003.
- **K.A. Crews-Meyer**, \$16,500 for establishment of new Center for Geographic Information Science from the College of Liberal Arts at the University of Texas. 2001-2002.
- 31) **K.A. Crews-Meyer**, ~\$28,500 for establishment of University of Texas ESRI site license, from the College of Liberal Arts. 2001-2002.
- 32) **K.A. Crews-Meyer** University of Texas Research Internship (value approximately \$17,000) to recruit incoming graduate student for research project.

RECENT PRESENTATIONS (* DENOTES POSTER PREPARED, ** DENOTES STUDENT):

- T. Meyer and K.A. Crews-Meyer. 2011. "GPS for Researchers and Guides", 1-day hands-on workshop for local researchers, filmmakers, and guides, July 2011, Matlapanang (Maun), Botswana.
- 2) K.A. Crews, B.H. King, and K.R. Young. 2011. "Operationalizing Spatio-temporal Variabilities: SES Framework Deployment in the Okavango Delta, Botswana" in organized session "Understanding Variability in Social Ecological Systems" at Association of American Geographers Annual Conference, 14 April 2011, Seattle, Washington.
- 3) **K.A. Crews**. 2010, invited. "Local to Global and Back Again: The Idea of Geography", talk to UT College of Liberal Arts Freshman Lecture Series, LAH 102. Fall.
- 4) T. Meyer and **K.A. Crews**. 2010. "GPS: Supporting Anti-Poaching", 2-day hands-on workshop for Botswana Department of Wildlife and National Parks (Anti-Poaching Unit and Research Unit), May 2010, Concession outside Moremi Game Reserve, Botswana.
- 5) **K.A. Crews**. 2010. "The Do's and Don't's of Interviewing: Informed Consent, Memory Recall, and Cultural Sensitivity". Half-day workshop for US Peace Corps Volunteers and Gumare Health District Personnel working on HIV/AIDS surveillance. March 2010, Maun, Botswana.
- 6) **K.A. Crews** and T. Meyer. 2009. "GIS Database Construction and Maintenance", 1-day hands-on workshop for US Peace Corps Volunteers working on HIV/AIDS surveillance. December 2009, Maun. Botswana.
- 7) **K.A. Crews** and T. Meyer. 2009. "Fire Disturbance in Northwestern Botswana: Cross-comparison of MODIS fire products, Landsat ETM, and Population Density" at IEEE IGARSS (Geosciences and Remote Sensing Symposium). 16 July 2009, Cape Town, South Africa.
- 8) **K.A. Crews** and A. Moffett**. 2009. "Ecologizing HIV Transmission Studies in Southern Africa" at Association of American Geographers Annual Conference, 27 March 2009, Las Vegas, Nevada.
- 9) K.A. Crews. 2009. Invited. "Landuse / Landcover Change in Tropical Systems: The Human Dimensions" at University of North Dakota's Center for People and the Environment's Colloquium Series. 13 February 2009, Grand Forks, North Dakota.
- 10) **K.A. Crews**. 2008, invited. "Local to Global and Back Again: The Idea of Geography", talk to UT College of Liberal Arts Freshman Lecture Series, LAH 102. Fall.
- 11) **K.A. Crews**. 2008. Invited. Principles of Remote Sensing for Land/Water Assessment, for WATERNET training, Harry Oppenheimer Okavango Research Center, University of Botswana, Maun campus. 2 days (14 hours), July 2008.

- 12) **K.A. Crews**. 2008. Invited. "Human-Environment Systems Vulnerability in the Global Tropics" at UT's Center for Space Research's colloquium series, Earth day lecturer. April 2008. Austin, Texas.
- K.A. Crews. 2008. "Human-Environment Systems & Disturbance in the Okavango Delta" at Geospatial Sciences for Sustainable Development in Africa: Global Dialogue on Emerging Science and Technology (GDEST). Cape Town, South Africa, 17-19 March, 2008. Travel funded by US State Dept., Workshop sponsored by the U.S. Department of State, Office of the Science and Technology Advisor.
- T. Meyer and K.A. Crews. Invited. 2008. "Lessons Learned in Change Detection: Principles, Patterns, and Processes" at Harry Oppenheimer Okavango Research Center, University of Botswana, Maun campus. March 2008. Maun, Botswana.
- 15) **K.A. Crews**. 2007, invited. "The Idea of Geography: Why Geography Rocks", talk to UT College of Liberal Arts Freshman Lecture Series, LAH 102. Fall.
- K.A. Crews-Meyer and K.R. Young. 2007. "Resilience and Stability as a Framework for Health: The Interplay of Social and Environmental Vulnerabilities", in special session "Geographies of Health and Environment in the Developing World" organized by B.H. King and K.A. Crews-Meyer, Annual Meeting of the Association of American Geographers, April 2007, San Francisco.
- 17) **K.A. Crews-Meyer**. 2007. Discussant, invited, in special session "Landscape Ecology: Current Examples and Future Trends", Annual Meeting of the Association of American Geographers, April 2007, San Francisco.
- 18) A.L. Neuenschwander** and **K.A. Crews-Meyer**. 2007. "Assessing Temporal Dynamics Using Landsat TM/ETM+: Disturbance and Resilience in the Okavango Delta, Botswana", Annual Meeting of the Association of American Geographers, April 2007, Remote Sensing Specialty Group Student Paper Competition (1st place).
- 19) K.R. Young, **K.A. Crews-Meyer**, J. Postigo**, and M. Cardozo**. 2007. "Drivers of Landscape and Agricultural Change in Floodplains of the western Amazon", in special session "Conservation and Development from the Andes to the Amazon II", Annual Meeting of the Association of American Geographers, April 2007, San Francisco.
- 20) **K.A. Crews-Meyer.** 2007. "Remote Sensing for Management and Monitoring" presented to the Charles Darwin Research Station and Galapagos Park Service, January, Galapagos, Ecuador.
- 21) K.A. Crews-Meyer. 2006, invited. "Why GRG [Geography major at UT] Rocks... and Why You Should Care", talk to UT College of Liberal Arts Freshman Lecture Series, LAH 102. Fall.
- 22) A.L. Neuenschwander** and **K.A. Crews-Meyer.** 2006. "Multi-temporal Mapping of Disturbances in the Okavango Delta, Botswana using Landsat TM and ETM+ data", Annual Meeting of the *IEEE International Geoscience and Remote Sensing Symposium*.
- 23) Amy L. McCleary** and **K.A. Crews-Meyer**. 2006. "A Multi-Temporal Classification Approach to Isolating Seasonal Variation in Landuse/Landcover Change in the Peruvian Amazon", Annual Meeting of the Association of American Geographers, March 2006, Remote Sensing Specialty Group Student Paper Competition (2nd place).
- *K.A. Crews-Meyer, K.R. Young. S. Sarkar, C. Kelley**, A. Moffett**, M. Cardozo**, D.B. Kintz**. 2006. "Agents, Anchors, or Arrestors? Alterations & Alternations from the Andes and Amazon", poster at the 102nd Association of American Geographers Annual Meeting, March 2006, Chicago.
- 25) **K.A. Crews-Meyer**. 2005. "Landscape dynamism: disentangling thematic versus structural change in northeast Thailand", 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, 9-13 October 2005, Bonn, Germany.
- 26) **K.A. Crews-Meyer** and A.L. Neuenschwander**. 2005. "Assessing Flood and Fire Dynamics in the Okavango Delta, Botswana" presented at the 101st Association of American Geographers Annual Meeting, March 2005, Denver, Colorado.

TEACHING

GRADUATE STUDENTS SUPERVISED (** INDICATES ADVISOR):

Current:

| Name | Doctoral / Masters | Expected Graduation | Topic |
|--------------------------|-----------------------|------------------------|--|
| Mario Cardozo ** | Doctoral | 12 / 2011 | Accessibility, Natural Resources, Multi-level Modeling, Amazon |
| Claudia Nancy Aguirre ** | Doctoral | 12 / 2011 | Feminist Landuse / Landcover Change |
| Julio Postigo | Doctoral | 12 / 2011 | Andean Pastoralism and Climate Change |
| Yung-ho Ophelia Wang | Doctoral | 12 / 2011 | Biodiversity, Conservation Planning |
| Jennifer Alexander ** | Masters | 5 / 2012 | Infectious Disease Ecology, Developing States |
| Dylan Malcomb ** | Masters | 5 / 2012 | Climate Change Adaptation, Foreign Aid, Africa |
| Niti Bhushan Mishra ** | Doctoral | 5 / 2013 | Spectral Unmixing, Kalahari, Vegetation Assessment |
| Xuebin Yang ** | Doctoral | 5 / 2015 | Remote Sensing, Disturbance, Vegetation Dynamics |

Matriculated:

| Name | Degree | Graduation | Dissertation / Thesis Title |
|--------------------------|-----------|------------|--|
| Kevin Anderson | Doctorate | 12 / 2009 | Marginal nature: Urban wastelands and the geography of nature. |
| Jennifer K Lipton | Doctorate | 8 / 2008 | Human Dimensions of Conservation, Land Use, and Climate Change in Huascaran National Park, Peru. |
| Carlos Santiago Lopez | Doctorate | 8 / 2008 | From The Household To The Community: A Resource Demand And Land-Use Model Of Indigenous Production In Western Amazonia. |
| Amy L Neuenschwander ** | Doctorate | 12 / 2007 | Remote Sensing of Vegetation Dynamics in Response to Flooding and Fire. |
| Maria D. Lane | Doctorate | 8 / 2006 | Geographies of Mars: The Science and Significance of the Red Planet, 1877-1910. |
| Robin H Gary (Havens) ** | Masters | 12 / 2005 | Anthropogenic Activities and Karst Landscapes: a Case Study of the Deep, Thermal, Sulfuric Karst System in Tamaulipas, Mexico. |
| Amy L Norman ** | Masters | 8 / 2005 | Isolating seasonal variation in landuse/landcover change using multi-temporal classification of Landsat ETM data in the Peruvian Amazon. |
| Joanna Wolaver ** | Masters | 8 / 2005 | Pressure on the park a case study of Aransas National Wildlife Refuge, Texas, and whooping crane habitat management. |
| Jean W Parcher ** | Masters | 12 / 2003 | Remote Sensing Methods for Estimating Impervious Cover for Hydrologic Modeling Applications: A Case Study of the Brownsville/Matamoros Urban Area. |
| Haiyan Yang ** | Masters | 8 / 2003 | The Influence of the National Flood Insurance Program on Texas Coastal Development. |
| Keene Haywood | Doctorate | 8 / 2003 | The Laguna Madre of Texas: A history and analysis of the spatial understanding and cultural constructions of its fisheries. |
| Damion Brook Kintz | Masters | 5 / 2003 | Land use and land cover change between 1987 and 2001 in the buffer zone of a national park in the tropical Andes. |
| Amber Leigh Clark | Masters | 12 / 2001 | From the banks of Green Bay: defining the Ho-Chunk homeland. |

COURSES TAUGHT:

| Number | Title | Developed for UT | Writing Flag | Weekly Labs |
|----------|--|------------------|-----------------|----------------|
| GRG 304E | Environmental Science: A Changing World | √ | √ | √ |
| GRG 335N | Landscape Ecology | | ✓ | √ |
| GRG 356T | Topic: Landuse / Landcover Change Practicum | ✓ | ✓ | √ |
| GRG 356T | Topic: Spatial Science Practicum | √ | | √ |
| GRG 360G | Environmental GIS (Geographic Information Systems) | | ✓ | √ |
| GRG 396T | Environmental Policy | ✓ | | |
| GRG 396T | Ecologies of Global Health | √ | | |
| GRG 462K | Environmental Remote Sensing | √ | √ | √ |
| GRG 464K | Advanced Remote Sensing and Pattern Analysis | ✓ | | ✓ |
| UGS 303 | Our Global Backyard | √ | | √ |

SELECTED SERVICE AND ADMINISTRATIVE DUTIES (NON-CAMPUS):

- Invited Expert, PERN (Population-Environment Research Network) Cyberseminar on "Remote Sensing and Population-Environment Community Needs", Hosted by Columbia University's Earth Institute. May 2010.
- 2) **Consultant** (Unpaid, Selected Competitively), Conservation International WKCC (Western Kgalagadi Conservation Corridor) Project. 2010.
- 3) **Member** (elected), Honors Committee B, Association of American Geographers (AAG), 2007-2009 (2-year term).
- 4) **Chair** (elected), Remote Sensing Specialty Group (RSSG), Association of American Geographers (AAG), 2007 2009 (2-year term).
- 5) **Vice-Chair** (elected), Remote Sensing Specialty Group (RSSG), Association of American Geographers (AAG), 2005 2007 (2-year term).
- 6) **Secretary/Treasurer** (elected), Geographic Information Science and Systems Specialty Group (GISSG), Association of American Geographers (AAG), 2006 2008 (2-year term).
- 7) **Associate Director** (elected), Remote Sensing Specialty Group (RSSG), Association of American Geographers (AAG), 2002 2004 (2-year term).
- 8) **Member** (appointed), Advisory Working Group for NASA (National Aeronautics and Space Administration) SEDAC (Socioeconomic Data Archive Center) housed at Earth Institute's CIESIN (Center for International Earth Science Information Network), 2007-2011 (4-year term).
- 9) **Panelist**; National Science Foundation Doctoral Dissertation Research Improvement, Geography and Spatial Sciences Program, 2011 2014 (four-year term).
- 10) **Panelist**; National Science Foundation call for Dynamics of Coupled Natural-Human Systems, 2009 and 2010.
- 11) Panelist, National Science Foundation and NIH (National Institutes of Health) joint call for Ecology of Infectious Disease research; 2008 and 2009.

- 12) **Panelist**, National Science Foundation Graduate Research Fellowship Program (GRFP), Political Science, Geography, & History of Science Panel. 2007 and 2008.
- 13) **Panelist**, Social Science Research Council, International Dissertation Research Fellowship (IDRF) competition, 2007.
- 14) Editorial Board: Open Ecology, 2008 present.
- 15) Editorial Board: International Journal of Applied Geospatial Research, 2008 present.
- 16) Editorial Board: Geography Compass, Earth Observation section, 2006 present.
- 17) **Editorial Board**: Southwestern Geographer, 2006 present.
- 18) **Editorial Board**: *Professional Geographer*, 2008 2010 (2-year term).
- 19) **Editorial Board**: *Geocarto International*, Education section, 2005 2011.

SELECTED SERVICE AND ADMINISTRATIVE DUTIES (CAMPUS):

- 1) Member, President's Research and Educational (R&E) Technology Governance Committee. 2011 2013 (2-year term)..
- 2) College of Liberal Arts Faculty Advisor, B.S. in Environmental Science. 2010 present.
- 3) Chair, Undergraduate Committee, Geography & the Environment. 2010 2012.
- 4) Member, Provost's Committee for Sustainability. 2007 present.
- 5) Member, Landscape Architecture Graduate Studies Committee. 2006 present.
- 6) Member, Bridging Disciplines Program, Social Inequality and Health Track (formerly Population & Public Policy). 2001 present.
- 7) Graduate Admission Committee, Geography & the Environment. 2001 2006, 2011.
- 8) Lead Author, Proposal for new B.S. in Environmental Science, University of Texas. 2007 2010.
- 9) Member, Provost's Information Technology Advisory Committee (ITAC). 2007 2009.
- 10) Member, College of Liberal Arts Instructional Technology Services Committee (LAITS). 2006 2009.
- 11) Chair, [Junior] Faculty Review Committee. 2006 2008.
- 12) Member, Vice Present for Research, Hamilton Book Award Committee. 2006 2008.
- 13) Member, Graduate Committee, Geography & the Environment. 2003 2008.
- 14) Member, Undergraduate Committee, Geography & the Environment. 2001 2007.
- 15) Founder and Director, Geographic Information Science Center. 2001 2009.
- 16) Founder and Site License Administrator, Campus-wide ESRI Site License, 2001 2006; backup Administrator, 2006 2009.
- 17) Founder and Site License Administrator, Campus-wide ERDAS Site License, 2001 2006; backup Administrator, 2006 2009.
- 18) Founder and Director, Computing Systems, Geography & the Environment. 2001 2006.
- 19) Associate Director, Environmental Science Institute. 2001 2004.