

Jill S. Heaton, Ph.D.

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Professional Preparation

University of North Texas	Biology	B.S.	1993
University of North Texas	Biology	M.S.	1996
Oregon State University	Geography	Ph.D.	2001

Appointments

Assistant Professor, University of Nevada, Reno, Department of Geography	2004-present
Assistant Professor (non-tenure track), University of Redlands, Environmental Studies	2001-2004
Research Assistant, Oregon State University	1996-2001
Lecturer, Oregon State University	1998-2001
Research Assistant, University of North Texas	1993-1996
Teaching Assistant, University of North Texas	1993-1996
Assistant Project Manager, University of North Texas, Water Research Field Station	1991-1993

Research Expertise

- Arid lands
- GIS
- Biogeography

Publications

- Esque, T. C., K. E. Nussear, K. K. Drake, A. D. Walde, K. H. Berry, R. C. Averill-Murray, A. P. Woodman, W. I. Boarman, P. A. Medica, and J. S. **Heaton**. 2010 (*In Press*). Effects of human population density, resource variability, and subsidized predators on desert tortoise populations in the Mojave Desert. *Endangered Species Research*. <http://www.int-res.com/prepress/n00298.html>
- Miao, X., R. Patil, J. S. **Heaton**, C. R. Tracy. 2010 (*In Press*). Detection and classification of invasive saltcedar through airborne hyperspectral imagery. *International Journal of Remote Sensing*.
- Atamian, M. T., J. S. Sedinger, J. S. **Heaton**, E. J. Blomberg. 2010 (*In Press*) Landscape level assessment of brood rearing habitat for greater sage grouse in east-central Nevada. *Journal of Wildlife Management* 74 (7):000-000.
- Webb, R. H., L. F. Fenstermaker, J. S. **Heaton**, D. L. Hughson, E. V. McDonald, D. M. Miller. 2009. *The Mojave Desert: Ecosystem Processes and Sustainability*. University of Nevada Press. Alphabetical after first author. **2009 PROSE Honorable Mention**
- Webb, R. H., J. S. **Heaton**. (2009). Road Effects on the Mojave Desert. In Webb, R. H., L. F. Fenstermaker, J. S. Heaton, D. L. Hughson, E. V. McDonald, D. M. Miller (Ed.), *The Mojave Desert: Ecosystem Processes and Sustainability*. University of Nevada Press.
- Webb, R. H., J. S. **Heaton**, M. L. Brooks, D. M. Miller. (2009). Introduction. In R. H. Webb, L. F. Fenstermaker, J. S. Heaton, D. L. Hughson, E. V. McDonald, D. M. Miller (Ed.), *The Mojave Desert: Ecosystem Processes and Sustainability*. University of Nevada Press.
- Webb, R. H., L. F. Fenstermaker, J. S. **Heaton**, D. L. Hughson, E. V. McDonald, D. M. Miller. (2009). The Mojave Desert: Ecosystem Processes and Sustainability Revisited. In R. H. Webb, L. F. Fenstermaker, J. S. Heaton, D. L. Hughson, E. V. McDonald, D. M. Miller (Ed.), *The Mojave Desert: Ecosystem Processes and Sustainability*. University of Nevada Press. Alphabetical after first author.

- Heaton, J. S. M. E. Cablk, K. E. Nussear, T. C. Esque, P. A. Medica, J. C. Sagebiel, S. S. Francis.** 2008. Comparison of effects of humans versus wildlife-detector dogs. *Southwestern Naturalist* 53(4):472-479.
- Heaton, J. S., K. E. Nussear, T. C. Esque, R. Inman, F. M. Davenport, T. E. Leuteritz, P. A. Medica, N. W. Strout, P. A. Burgess, L. Benvenuti.** 2008. Decision support for selecting translocation areas for desert tortoises. *Biodiversity and Conservation*. 17:575-590.
- Nussear, K. E., T. C. Esque, J. S. **Heaton**, M. E. Cablk, K. K. Drake, C. Valentin, J. L. Yee, P. A. Medica. 2008. Are wildlife detector dogs or people better at finding desert tortoises (*Gopherus agassizii*)? *Herpetological Conservation and Biology*. 3(1):103-115.
- Cablk, M. E., J. C. Sagebiel, J. S. Heaton, C. Valentin. 2008. Olfaction-based Detection Distance: A Quantitative Analysis of How Far Away Dogs Recognize Tortoise Odor and Follow it to Source. *Sensors*, 2008, 8, 2208-2222.
- Miao, X., P. Gong, R. Pu, R. Carruthers, J. S. **Heaton**. 2007. Applying class-based feature extraction approaches from supervised classification of hyperspectral imagery. *Canadian Journal of Remote Sensing* 33:162-175.
- Heaton, J.S., A.R. Kiestler and M. Meyers.** 2006. The LizLand model: a geomorphic approach to lizard habitat modeling in the Mojave Desert. *Journal of Arid Environments* 67 (Supplemental 1):202-225.
- Miao, X., P. Gong, S. Swope, R. Pu, R.I. Carruthers, G.L. Anderson, J.S. **Heaton** and C.R. Tracy. 2006. Estimation of yellow starthistle abundance through CASI-2 hyperspectral imagery using linear spectral mixture models. *Remote Sensing of the Environment* 101:329-341.
- Cablk, M.E. and J.S. **Heaton**. 2006. Accuracy and reliability of dogs in surveying for desert tortoises (*Gopherus agassizii*). *Ecological Applications* 16:1926-1935.
- Vert, G., A. Morris and J.S. **Heaton**. 2006. Decision support based methods to facilitate 3D volumetric locking in a new peer to peer based spatial database system. *Control and Cybernetics* 35:167-194.

Revising to Resubmit

- Heaton, J.S., K. E. Nussear.** Patterns of alluvial plain macro and micro habitat utilization and land use affinities of *Callisaurus draconoides* within the California Mojave Desert. *Herpetological Conservation and Biology*.
- DeYoung, S. R., G. B. Arehart, S. R. Poulson, J. S. **Heaton**, S. I. Weiss. Sulfur isotopes in plutonic rocks as indicators of crustal architecture. *Geology*.
- Miao, X. J. S. **Heaton**, Z. Songfend, D. Charlet, H. Liu. Applying tree-based ensemble algorithms to ecosystem classification using multitemporal multisource remote sensing data. *International Journal of Remote Sensing*.

In Preparation

- Heaton, J. S., K. E. Nussear, T. C. Esque, E. Aldrich, R. Patil, R. W. Marlow, C. R. Tracy.** The implications of sampling bias for population density estimates and threats assessment: The threatened Mojave Desert tortoise as an example. *Conservation Biology*.
- Dilts, T. E., J. S. **Heaton**, D. J. Van Zyl. Morphometric comparison of artificial post-mining landforms and natural landforms using a geographic information system. *Ecological Engineering*.
- Esque, T. C., K. E. Nussear, J. S. **Heaton**, R. H. Webb. Habitat Conservation Status of the Mojave Population of the Desert Tortoise. *TBD*

Other Professional Publications

- Tracy, C. R., R. Averill-Murray, W. I. Boarman, D. Delehanty, J. **Heaton**, E. McCoy, D. Morafka, K. Nussear, B. Hagerty, P. Medica. 2004. "Desert Tortoise Recovery Plan Assessment" (276pp including Appendices). Report to U.S. Fish and Wildlife Service. Alphabetical after first author.
http://www.fws.gov/nevada/desert%5Ftortoise/documents/dtrpac/dtrpac_report.pdf
- Allison, L. J., Averill-Murray, R. C., Breneman, M., Corn, P. S., Everly, C., **Heaton**, J. S., Marlow, R. W., Medica, P. A., Tracy, C. R. 2006. *Range-wide monitoring of the Mojave population of the desert tortoise: 2001-2005 summary report* (96pp). U.S. Fish and Wildlife Service. Authors listed alphabetically.
- Heaton, J. S.** 2006. *2005 Distance Sampling Perceived Threat Data Analysis* (pp. 42pp). U.S. Fish and Wildlife Service.

- Heaton, J. S., Brenneman, M., Everly, C. A.** 2006. *Mojave Desert Tortoise Rangewide Monitoring Quality Assurance Project Plan* (158pp). U.S. Fish and Wildlife Service.
- Heaton, J. S., Brenneman, M., Patil, R.** 2007. *2007 Desert Tortoise Population Monitoring Final Database*. U.S. Fish and Wildlife Service. Final QA/QC'd and documented 2007 Desert Tortoise Population Monitoring Database. The relational spatially enabled database contains 9 tables, 252 columns and nearly 19,000 records total. Additionally, over 4 dozen automated programming scripts were written to assist in data collection, download and QA/QC.
- Heaton, J. S., Brenneman, M.** 2008, Patil, R. *2008 Desert Tortoise Population Monitoring Final Database*. U.S. Fish and Wildlife Service.
- Heaton, J. S. R. W. Marlow, R. Patil, E. Aldrich, S. Corn, K. E. Nussear, P. A. Medica, L. Allison.** 2008. *2008 Desert Tortoise Monitoring Handbook*. U. S. Fish and Wildlife Service Desert Tortoise Recovery Office. 169pp.
- Esque, T. C., Nussear, K. E., Drake, K. K., Berry, K. H., Medica, P. A., **Heaton, J. S.** 2009. *Amendment to desert tortoise translocation plan for Fort Irwin's land expansion program at the U.S. Army National Training Center (NTC) & Fort Irwin*. U.S. Army National Training Center, Directorate of Public Works.
- Heaton, J. S., C. R. Tracy.** 2009. *Desert Tortoise Monitoring Final Report*. Clark County Multiple Species Habitat Conservation Plan. 26pp.

Professional papers presented

Keynote

- Heaton, J. S.** 2004. Management and Science in the Mojave Desert. Invited Keynote address. Third Mojave Desert Science Symposium. Redlands, CA November 2004

Oral

- Heaton, J. S., F. Davenport, R. Inman, P. Burgess.** 2004. Management of desert tortoises and their habitat on public lands using Ecosystem Management Decision Support. *Ecological Society of America*, Portland, OR, August 2004.
- Cablk, M. E., J. S. **Heaton**. 2004. Using K9s to survey for desert tortoises. *Ecological Society of America*, Portland, OR, August 2004.
- Davenport, F., J. S. **Heaton**. 2004. Knowledge modeling, GIS and decision support for species recovery. *ESRI Users Conference*, San Diego, CA, August 2004.
- Inman, R., J. S. **Heaton**, M. E. Cablk. 2004. The efficacy and reliability of using dogs to locate desert tortoises under natural conditions. *Conservation Biology*. New York, NY, July 2004.
- Heaton, J. S.** 2005. Quantitative mapping of qualitative information for decision support. *Association of American Geographers Annual Meeting*. Denver, CO April 2005.
- Heaton, J. S., K. Nussear, C. R. Tracy, R. Averill-Murray, W. I. Boarman, D. Delehanty, E. McCoy, D. Morafka, B. Haggerty, P. A. Medica.** 2005. The Geography of Threatened and Endangered Species Declines: The Desert Tortoise as a Case Study. *Association of Pacific Coast Geographers Annual Meeting*. Phoenix, AZ October 2005.
- DeYoung, S., G. Arehart, S. Poulson, S. Weiss, J. S. **Heaton**. 2006. Sulfur isotope study of granitic plutons in the Great Basin, Western USA: Implications for magma-crust interaction and crustal architecture. *The Geological Society of America*, Philadelphia, PA October 2006.
- Esque, T. C., J. S. **Heaton**, K. E. Nussear, M. E. Cablk. 2006. Humans vs K9s: Is fear warranted in the race to save the desert tortoise. *Ecological Society of America*, Memphis, Tennessee August 2006.
- Heaton, J. S., K. E. Nussear, T. C. Esque.** 2007. Spatially Explicit Decision Support for Conservation. *Association of American Geographers Annual Meeting*, San Francisco, CA.
- Heaton, J. S., E. Aldrich.** 2007. 2005 Desert Tortoise Distance Sampling Threat Indicators. *Desert Tortoise Council 32nd Annual Symposium*, Las Vegas, NV.
- Esque, T. C., K. E. Nussear, L. Gass, K. A. Thomas, R. H. Webb, C. S. A. Wallace, J. B. Blainey, D. M. Miller, J. S. **Heaton**. 2007. , A predictive habitat model for the Mojave desert tortoise. *Desert Tortoise Council 32nd Annual Symposium*, Las Vegas, Nevada..
- Heaton, J. S.** 2007. Desert Tortoise Science Advisory Committee, *United States Fish and Wildlife Association*, Tucson, AZ.
- Heaton, J. S., R. Marlow.** 2008. Desert Tortoise Monitoring Annual Report. *Clark County Multiple Species Habitat Conservation Plan Annual Progress Report*, Clark County, Las Vegas, Nevada.

- Webb, R. H., T. C. Esque, K. E. Nussear, J. S. **Heaton**. 2009. Disturbance, Vulnerability, and Recoverability of Soils and Vegetation in the Mojave Desert. *Southern California Botanist*, Fullerton, CA.
- Heaton**, J. S. 2009. Ecosystem Indicators Annual Progress Report. *Clark County Multiple Species Habitat Conservation Plan Annual Progress Report*, Clark County, Las Vegas, Nevada.
- Nussear, K. E., T. C. Esque, R. D. Inman, J. S. **Heaton**, R. H. Webb. 2009. Ecological Interpretations of Model Parameters Contributing to a Habitat Suitability Model for Desert Tortoises, *Association of American Geographers Annual Meeting*, Las Vegas, NV.
- Esque, T. C. K. E. Nussear, J. S. **Heaton**, R. H. Webb. 2009. Habitat Conservation Status of the Mojave Population of the Desert Tortoise. *Association of American Geographers Annual Meeting*, Las Vegas, NV.
- Heaton**, J. S. 2009. The Mojave Desert: Biogeographical Research. *Association of American Geographers Annual Meeting*, Las Vegas, NV.
- Heaton**, J. S. 2009. The Mojave Desert: Threats and Restoration. Association of American Geographers Annual Meeting, Las Vegas, NV.
- Esque, T. C., K. E. Nussear, W. I. Boarman, A. D. Walde, A. P. Woodman, K. H. Berry, R. C. Averill-Murray, C. R. Darst, K. K. Drake, J. Mack, P. A. Medica, J. S. **Heaton**. 2009. Predation and Translocated Desert Tortoises at Ft. Irwin National Training Center: Separating Fact from Fiction, *Desert Tortoise Council Symposium*, Mesquite, NV.
- Miao, X., J. S. **Heaton**. 2010. Applying tree-based ensemble algorithms to ecosystem classification using multitemporal multisource remote sensing data. *Association of American Geographers Annual Meeting*, Washington DC.
- Cablk, M. E., J. S. **Heaton**, K. E. Nussear, T. C. Esque, C. Valentin, S. Clark, and A. Hurt. 2010. How capability studies validate wildlife detection dog teams as a legitimate survey tool. *The Wildlife Society Annual Meeting*, Snowbird, UT.
- Miao, X., J. S. **Heaton**. 2010. A comparison of random forest and Adaboost tree in ecosystem classification in the East Mojave Desert. *Geoinformatics 2010*, Beijing, China.

Posters

- Heaton**, J. S., F. Davenport, R. Inman, P. Burgess. 2004. Management of desert tortoises and their habitat on public lands using Ecosystem Management Decision Support. Ecological Society of America, Portland, OR, August 2004, AND ESRI Users Conference, San Diego, CA August 2004, AND Mojave Desert Science Symposium, Redlands, CA November 2004
- Heaton**, J. S., M. E. Cablk, R. Inman. 2004. Quantifying the "search" in search dogs for the desert tortoise. ESRI Users Conference, San Diego, CA, August 2004, AND Mojave Desert Science Symposium, Redlands, CA November 2004.
- Francis, S. and J. S. **Heaton**. 2005. The effects of temperature, humidity, space and time on West Nile Virus in Churchill County Nevada. Association of Pacific Coast Geographers Annual Meeting. Phoenix, AZ October 2005.
- Gundlach, D. L. and J. S. **Heaton**. 2005. Roads and fragmentation of desert tortoise habitat. Association of Pacific Coast Geographers Annual Meeting. Phoenix, AZ October 2005.
- Grimmer, A. and J. S. **Heaton**. 2009. Revising Clark County Ecosystems. Nevada Geographic Information Society Annual Meeting. Reno, NV 2009.

Other

- Larson, K. L., J. S. **Heaton** (Discussant), P. Gober, P. F. Starrs, G. E. Matzke. 2006. Forging new frontier: Challenges and advice for junior faculty. Association of American Geographers, Chicago, Illinois March 2006.
- Heaton**, J. S., K. E. Nussear. 2009. The Threatened Desert Tortoise: Ecology and Management. *Association of American Geographers Annual Meeting Field Trip*, Las Vegas, NV. 20 Attendees
- Heaton**, J. S., T. C. Esque. 2009. Wild About Mojave Wildflowers Field Trip. *Association of American Geographers Annual Meeting Field Trip*, Las Vegas, NV. 55 Attendees

Grants Awarded (* Active ~\$2m since 2004)

- ***Heaton**, Jill S (Principal), House, Peter K (Supporting), Marlow, Ronald W (Co-Principal), Cashman, Patricia H (Supporting), Trexler, James H (Supporting). 2008. "Ecosystem Indicators", Sponsored by

- Clark County Multiple Species Habitat Conservation Plan, State, Competitive, Peer-Reviewed. **\$1,300,000**. Submission Date: August 2004; Date Awarded: November 2008; End Date: June 2011
- ***Heaton**, Jill S. 2008. "Gold Butte Spatial Modeling", Sponsored by United States Geological Survey, Federal, Competitive, USGS-Reviewed. **\$51,480.**; Submission Date: 2008; Date Awarded: December 2008; End Date: December 2010
- ***Heaton**, Jill S. 2008. "NTC Tortoise Habitat", Sponsored by United States Geological Survey, Federal, Competitive, USGS-Reviewed. **\$14,100.**; Submission Date: November 2008; Date Awarded: December 2008; End Date: December 2010
- Heaton**, Jill S (Co-Principal), Marlow, Ronald W (Co-Principal), Tracy, C. R (Co-Principal). 2007. "Desert Tortoise Monitoring", Sponsored by Clark County Multiple Species Habitat Conservation Plan, State, Competitive, Peer-reviewed. Total Award: **\$1,200,000**. This project began as a collaborative for which I effectively administered PI responsibilities and assumed official sole PI responsibility in 2009. Since I did not participate in the original proposal I have not included this in my funding total. I did however receive approximately \$200,000 in funding from this grant. Submission Date: August 2004; Date Awarded: February 2007; End Date: 2009
- Heaton**, Jill S (Principal), Van Zyl, Dirk J (Co-Principal). 2007. "Mine Life Cycle Knowledge Base", Sponsored by Bureau of Land Management, Federal, Non-competitive, None Peer-reviewed. **\$40,529**. Project Transferred to Tony Brinkman, UNR Geography Spring 2008. Submission Date: November 2007; Date Awarded: December 2007; End Date: December 2008
- Heaton**, Jill S (Principal). 2006. "Edwards DTK9 Validation", DOD pass through DRI, Federal, Non-competitive, Non Peer-reviewed. **\$8881**. Submission Date: January 2006; Date Awarded: February 2006; End Date: May 2006
- Heaton**, J. S. (Co-PI), M. E. Cablk, Desert Research Institute (Co-PI), K. E. Nussear, USGS (Co-PI), T. C. Esque, USGS (Co-PI), P. Medica, USGS (Co-PI). 2005. "Canine Desert Tortoise Surveys", Army Research Office, Federal, Competitive, Peer-reviewed. **\$133,000**. Submission Date: 2005; Date Awarded: 2005; End Date: 2006
- Heaton**, Jill S. (Principal). 2004, 2005, 2006, 2007. "Desert Tortoise LDS Data Management", Sponsored by U.S. Fish and Wildlife Service, Federal, \$50,000 in 2004; \$104,000 in 2005; \$59,358 in 2006; and \$22,000 in 2007. Total **\$235,358**. Submission Date: 2004-2007; Date Awarded: 2004-2007; End Date: August 2007
- Heaton**, Jill S. (Principal). 2004, 2005. "GIS Support", Sponsored by U.S. Fish and Wildlife Service, Federal, \$43,000 in 2004; \$43,000 in 2005. Total **\$86,000**. Submission Date: 2004-2005; Date Awarded: 2004-2005; End Date: 2006
- Tracy, C. R. (UNR, Co-PI), R. Marlow (UNR, Co-PI), J. S. **Heaton** (UNR, Supporting). 2004, 2005. "Ecosystem Indicators," Clark County Nevada Multiple Species Habitat Conservation Plan, State, Competitive, peer-reviewed. Total Award: \$583k, **\$106,000** to Heaton. Submission Date: 2003; Date Awarded: 2004; End Date: 2006
- Heaton**, J. S. (PI). 2004. "Ft. Irwin National Training Center Mitigation", Department of Defense, Federal. Non-competitive, peer reviewed. **\$13,000**. Submission Date: 2004; Award Date: 2004; End Date: 2005
- Heaton**, J. S. 2004. "Desert Tortoise K9", University of Redlands, California, Private Institution. Non-competitive, non-peer reviewed. **\$9,000**. Submission Date: 2004; Award Date: 2004; End Date: 2005

Grant Proposals in Preperation

- Heaton**, Jill S. (PI); Cashman, P. (Co-PI); Trexler, J. (Co-PI). Surface age, composition, topographic, and biogeographic position controls on *Yucca sp.* distribution in the Mojave Desert. National Science Foundation Geography and Spatial Sciences Program. 15 October 2010

Grants Not Awarded-Actively Seeking Alternative Funder

- Heaton**, Jill S. (PI); Charlet, D. (Co-PI); Leary, P. (Co-PI). 2010. "Baseline bio-geospatial database for climate change in Nevada", Sponsored by NSF EPSCoR Climate Change Seed Grants", Federal, Competitive, Peer-reviewed. **\$25,000**.
- Heaton**, Jill S. (Co-PI); Miao, X. (Co-PI); Zhu, J. (Co-PI); Li, J. (Co-PI). 2010. "CMG Collaborative Research: Developing novel machine learning methods for advanced satellite image interpretation to evaluate ecosystem sustainability", Sponsored by NSF, Federal, Competitive, Peer-reviewed. **\$176,689** to **Heaton**.
- Heaton**, Jill S. (Co-PI); Palmer, C. (Co-PI); Stephen, H. (Co-PI); Smith, W. J. Jr. (Co-PI); Fenstermaker, L.

(Co-PI); Coming, D. (Co-PI). 2010. "RenewNV: Spatial Decision Support System for RE in NV", Sponsored by Nevada Renewable Energy Consortium, State, Competitive, Peer-reviewed. Total \$250,000. **\$83,333 to Heaton.**

Grants Not Awarded

Heaton, Jill S. (Co-PI); Spears, K. (PI); Powell, P. (Co-PI); Rebori, M. (Co-PI); Benedict J. (Co-PI); Granner, M. (Co-PI); Yang, W. (Co-PI). 2010. "Rural Community Strategic Plan to Increase Physical Activity using GIS and Community Survey", Federal, Competitive, Peer-reviewed. \$350,381. **\$49,053 to Heaton.**

Heaton, Jill S. (Supporting), Biondi, Franco (Co-Principal), Kleppe, John A (Co-Principal), Koracin, Darko (Co-Principal), Redmond, Kelly T. (Co-Principal), Pepper, Darrel W. (Co-Principal), Kreamer, David K. (Co-Principal). 2006. "Water Resources in Nevada's Changing Landscapes: Testing the Sierra Nevada Mega-Drought Hypothesis", Sponsored by NSF EPSCoR Idea Paper, Federal, Competitive, Peer-reviewed.

Heaton, Jill S. (Supporting), Blomquist, Gary (Supporting), Kozel, Thomas R (Principal), Hall, Mark R (Supporting), John Boone (Supporting), Hunter, Kenneth W (Supporting), McGwire, Kenneth (Supporting), Morzunov, Sergey P (Supporting), Pari, Gregory S (Supporting), St. Jeor, Stephen (Supporting), Stott, Jeffrey (Supporting), Teglas, Mike B (Supporting), Tittiger, Claus (Supporting), Walker, Mark J (Supporting), Weisberg, Peter J (Supporting). 2006. "Microbes, the Environment and Infectious Disease", Sponsored by NSF IGERT Program, Federal, Competitive, Peer-reviewed.

UNR Service Highlights

- Graduate Student Association Grant Committee
- University Institute for Innovation and Informatics Committee
- University Field Safety Committee
- Numerous Faculty Search Committees
- Ecology, Evolution and Conservation Biology Future Directions Committee
- College of Science Personal Committee
- Department of Geography Personal Committee including Chair position
- Various Ad-hoc Department and Mackay Science committees
- Geography Bylaws Committee

Professional Service Highlights (Manuscript and Grant Reviews; Committee Appointments)

- Journal of Arid Environments
- Biological Conservation
- Endangered Species Research
- Copeia
- Army Research Office
- U.S. Fish and Wildlife Service
- Clark County Multiple Species Habitat Conservation Program
- Association of American Geographers
- Association of Pacific Coast Geographers
- Numerous reference letters for undergraduate, graduate and professional appointments
- Board Member Nevada Wilderness Project

Graduate Students

- 2 Current M.S. Geography students
- 4 Graduated M.S. Geography students
- 3 Ph.D. and 4 M.S. Current graduate student committee memberships
- 4 Ph.D. and 13 M.S. Graduated graduate student committee memberships.

Teaching Awards and Honors

- 2007 Nominated for the College of Science LeMay Teaching Award
- 2008 Westfall Scholar Mentor (student selected)

- 2009 PROSE Honorable Mention for book *The Mojave Desert: Ecosystem Processes and Sustainability* (Webb et al. 2009).

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Teaching Evaluations

Disclosure: The first three semester evaluations were scored using an older evaluation system. I converted the numeric evaluations for two of the three courses. Only summarized numeric scores were provided for the third class and therefore I could not convert the scores. In addition, 700 level courses were not evaluated until 2006.

Fall 2004

Geog 405/605 Introduction to GIS I (4.2 out of 5)

Spring 2005

Geog 405/605 Introduction to GIS I (numeric scores not convertible)

Geog 701g Mobile GIS (no numeric evaluations)

Fall 2005

Geog 405/605 Introduction to GIS I (3.5 out of 5)

Spring 2006

Geog 407/607 Advanced GIS II (4.0 out of 5)

Geog 472/672 Geography of Arid Lands (4.7 out of 5)

Fall 2006

Geog 405/605 GIS I (3.9 out of 5)

Spring 2007

Geog 471/616 Spatial Analysis in Geography (3.6 out of 5)

Geog 407/607 Advanced GIS II (4.0 out of 5)

Fall 2007

Geog 701g Mobile GIS (4.3 out of 5)

Spring 2008

Geog 407/607 Advanced GIS II (4.0 out of 5)

Geog 416/616 Spatial Analysis in Geography (4.1 out of 5)

Fall 2008

Geog 325 Research Methods (3.5 out of 5)

Geog 472/672 Geography of Arid Lands (4.3 out of 5)

Spring 2009

Geog 314 Field Methods (4.4 out of 5)

Fall 2009

Geog 434/634 Biogeography (4.4 out of 5); Cross listed Biol 490/690 Biogeography (4.19 out of 5)

Spring 2010

Geog 405/605 Introduction to GIS I (4.10 out of 5)

Geog 490/690 Colloquium (evaluation not conducted)