

CURRICULUM VITAE

NAME

María E. Fernández-Giménez

ADDRESS

Dept. of Forest, Rangeland, and Watershed Stewardship
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EDUCATION

1987 BA Philosophy *Cum laude*, Yale University
1992 MS Range Management, University of California, Berkeley
1997 PhD Wildland Resource Science, University of California, Berkeley
2001 Certified Professional in Range Management #CP01-223

ACADEMIC POSITIONS

(2007-present) Associate Professor, Forest, Rangeland, and Watershed Stewardship, Colorado State University
(2003-2007) Assistant Professor, Forest, Rangeland, and Watershed Stewardship, Colorado State University
(1999-2003) Assistant Professor, Renewable Natural Resources, University of Arizona

OTHER POSITIONS

(1997-1999) Ciriacy-Wantrup Post Doctoral Fellow, University of California, Berkeley
(1993-1999) Range Management Consultant
(1992-1994) Ecologist, USDA Forest Service, Region 5, San Francisco
(1991) Researcher, USDA Forest Service, Shasta-Trinity National Forests, CA
(1988-1990) Field Representative, The Trust for Public Land, San Francisco, CA
(1988) Sheep Herder, Magagna Bros. Wool Growers, Inc., Rock Springs, WY
(1987) Ranch Hand, Howe Ranch, Hayden, CO

TEACHING

At Colorado State University

RS332 Rangeland Measurements and Monitoring
RS532 Rangeland Ecosystem Sampling
NR420 Integrated Ecosystem Management
NR680 Community-based Resource Management

PUBLISHED WORKS

Refereed Journal Articles:

Arnold, J. and M.E. Fernandez-Gimenez. 2007. Building social capital through participatory research: an analysis of collaboration on Tohono O'odham tribal rangelands in Arizona. *Society and Natural Resources* 20(6):481-495.

Hershendorfer, M., M.E. Fernandez-Gimenez, and L. Howery. 2007. Key attributes influence the performance of local weed management programs in the Southwest United States. *Rangeland Ecology and Management*:225-234.

- Conley, J., M.E. Fernandez-Gimenez, G. Ruyle, and M. Brunson. 2007. Forest Service grazing permittee perceptions of the endangered species act in southeastern Arizona. *Rangeland Ecology and Management* 60(2):136-145.
- Fernandez-Gimenez, M.E., H.P. Huntington, and K.J. Frost. 2006. Integration or cooptation? traditional knowledge and science in the Alaska Beluga Whale Committee. *Environmental Conservation* 33(4):306-315.
- Fernandez-Gimenez, M.E. and S. LeFebre. 2006. Mobility in pastoral systems: dynamic flux or downward trend? *International Journal of Sustainable Development and World Ecology* 13:1-22.
- Hays, J.U., M.E. Fernandez-Gimenez, and the Sif Oidak Livestock Committee. 2005 Participatory rangeland planning on the Tohono O'odham Nation. *Rangelands* 27(6):15-19.
- Fernandez-Gimenez, M.E., S. Jorstad McClaran, and G. Ruyle. 2005. Arizona permittee and land management agency attitudes toward rangeland monitoring by permittees. *Rangeland Ecology and Management* 58:344-351.
- Fernandez-Gimenez, M.E., G. Ruyle and S. Jorstad McClaran. 2005. An evaluation of Arizona cooperative extension's rangeland monitoring program. *Rangeland Ecology and Management* 58:89-98.
- Fernandez-Gimenez, M.E., S. Le Febre, A. Conley, and A. Tendick. 2004. Collaborative stewardship of Arizona's rangelands. *Rangelands* 26(6): 24-30.
- Fernandez-Gimenez, M.E. and B. Batbuyan. 2004. Law and disorder in Mongolia: local implementation of Mongolia's land law. *Development and Change* 35(1):141-165.
- Fernandez-Gimenez, M.E. and S. E. Smith. 2004. Effects of nitrogen on Arizona cottontop and Lehmann lovegrass seedlings. *Journal of Range Management* 57:76-81.
- Huntington, H.P., P.K. Brown-Schwallenberg, K.J. Frost, M.E. Fernandez-Gimenez, D.W. Norton and D.H. Rosenberg. 2002. Observations on the workshop as a means of exchanging traditional and scientific knowledge. *Environmental Management* 30(6): 778-792.
- Fernandez-Gimenez, M.E. and U.P. Kreuter. 2002. Rangeland professionals and policy: prospects for effective influence. *Rangelands* 24(4):34-40.
- Fernandez-Gimenez, M.E. 2002. Spatial and social boundaries and the paradox of pastoral land tenure: a case study from post-socialist Mongolia. *Human Ecology* 30(1):49-78.
- Fernandez-Gimenez, M.E. 2001. The effects of livestock privatization on pastoral land use and land tenure in post-socialist Mongolia. *Nomadic Peoples* 5(2):49-66.
- Fernandez-Gimenez, M.E. and B.H. Allen-Diaz. 2001. Vegetation change along gradients from water sources in three grazed Mongolian ecosystems. *Plant Ecology* 157:101-118.
- Huntsinger, L. and M.E. Fernandez-Gimenez. 2000. Non-indigenous spiritual pilgrimage at Mt. Shasta. *The Geographical Review* 90(4):536-558.
- Fernandez-Gimenez, M.E. 2000. The role of Mongolian nomadic pastoralists' ecological knowledge in rangeland management. *Ecological Applications* 10(5):1318-1326.
- Fernandez-Gimenez, M.E. 1999. Sustaining the steppes: a geographical history of pastoral land use in Mongolia. *The Geographical Review* 89(3):315-342.
- Fernandez-Gimenez, M.E. and B. Allen-Diaz. 1999. Testing a non-equilibrium model of rangeland vegetation dynamics in Mongolia. *Journal of Applied Ecology* 36:871-885.

Huntington, H.P. and M.E. Fernandez-Gimenez. 1999. A review of research and application of indigenous knowledge in the Arctic. *Indigenous Knowledge and Development Monitor* 7(3):11-14.

Fernandez-Gimenez, M.E. 1999. Reconsidering the role of absentee herd owners: a view from Mongolia. *Human Ecology* 27(1):1-27.

Fernandez-Gimenez, M.E. 1993. The role of ecological perception in indigenous resource management: a case study from the Mongolian forest-steppe. *Nomadic Peoples* 33:31-46.

Book Chapters:

Fernandez-Gimenez, M.E., B. Batbuyan, and J. Oyungerel. 2007. Climate, economy and land policy: effects on pastoral mobility patterns in Mongolia. Pp. 3-24 in Sun, X. and N. Naito (eds): *Mobility, Flexibility, and Potential of Nomadic Pastoralism in Eurasia and Africa*. Graduate School of Asian and African Area Studies, Kyoto University, Kyoto, Japan.

Refereed Proceedings:

Fernandez-Gimenez, M.E. 2006. Pastoral land use and land tenure in Mongolia: history and current issues. Invited paper. Pp. 30-36 in: *Rangelands of Central Asia: Proceedings of the Conference on Transformations, Issues and Future Challenges*. January 27, 2004, Salt Lake City, UT. USDA Forest Service Rocky Mountain Research Station. RMRS-P-39.

Fernandez-Gimenez, M.E. and D.M. Swift. 2003. Strategies for sustainable grazing management in the developing world. Invited paper. Pp. 821-831 in Allsopp, N. et al. (eds): *Proceedings of the VIIth International Rangeland Congress*, July 26-August 1, 2003, Durban, South Africa.

Sayre, N.F. and M.E. Fernandez-Gimenez. 2003. The genesis of range science, with implications for current development policies. Invited paper. Pp. 1976-1985 in Allsopp, N. et al. (eds): *Proceedings of the VII International Rangeland Congress*, July 27-August 1, 2003, Durban, South Africa.

Arnold, J.S. and M.E. Fernandez-Gimenez. 2003. Collaborative development and qualitative assessment of a rangeland management curriculum on the Tohono O'odham Nation. Volunteer paper. Pp. 1824-1826 in Allsopp, N. et al. (eds): *Proceedings of the VII International Rangeland Congress*, July 27-August 1, 2003, Durban, South Africa.

Hays, J.U. and M.E. Fernandez-Gimenez. 2003. Reevaluating Tohono O'odham livestock management practices in the Sonoran desert. Volunteer paper. Pp 1833-1836 in Allsopp, N. et al. (eds): *Proceedings of the VII International Rangeland Congress*, July 27-August 1, 2003, Durban, South Africa.

Non-Refereed Proceedings:

Fernandez-Gimenez, M.E., B. Batbuyan, and J. Oyungerel. 2006. Climate, economy and land policy: effects on pastoral mobility patterns in Mongolia. *Proceedings of the Symposium Revisioning Area Studies for the 21st Century*, Kyoto University, November 8-13, 2006, Kyoto, Japan. Kyoto: Center for African and Asian Areas Studies.

Fernandez-Gimenez, M.E. and U. P. Kreuter (editors). 2002. *Rangeland Professionals and Policy: Prospects for Effective Influence in the Developed and Developing Worlds*. *Proceedings of the International Affairs Committee Symposium, Society for Range Management Annual Meeting*, February 17, 2002, Kansas City, Missouri. (Published on CD Rom).

Fernandez-Gimenez, M.E. and B. Batbuyan. 2000. Law and disorder in Mongolia: local implementation of Mongolia's land law. *Proceedings of the 8th International Conference of the International Association for the Study of Common Property*, May 31-June 4, 2000, Bloomington, Indiana. (Published on CD Rom).

Fernandez-Gimenez, M.E. and B.H. Allen-Diaz. 1994. Testing the intermediate disturbance hypothesis: the effects of grading and trampling on species richness and diversity in the California annual grassland. Pp. 147-153 in Li Bo, ed., Proceedings of the International Symposium on Grassland Resources, Huhuhot, Inner Mongolia, P.R. China, August 16-20, 1993. Beijing: Agricultural Sciencetech Press.

Fernandez-Gimenez, M.E., L. Huntsinger, C. Phillips, and B.H. Allen-Diaz. 1992. Conflicting values: spirituality and wilderness at Mt. Shasta. Pp. 36-37 in Proc. Symposium on Social Aspects and Recreation Research. Ontario, CA, February 19-22, 1992. Gen Tech. Rept. PSW-GR-132.

Other (Invited Book Reviews):

Fernandez-Gimenez, M.E. 2002. Review of Protecting the Commons: A Framework for Resource Management in the Americas. Ecological Engineering 19:83-85.

Fernandez-Gimenez, M.E. 2000. Good Practices in Dryland Management. Indigenous Knowledge and Development Monitor 8(3):40.

Fernandez-Gimenez, M.E. 2000. PLEC News and Views, Special Issue on Methodology. Indigenous Knowledge and Development Monitor 8(2):35.

CONTRACTS & GRANTS

Funded Projects as PI

- (2006-2009) "Participatory Development of Ecological State-and-Transition Models: Integrating Scientific and Local Knowledge for Rangeland Sustainability," USDA-NRCS Conservation Innovation Grant, \$74,232.
- (2004-2006) "Sustainable Rangelands Information Project," USDA Western Sustainable Agriculture, Research and Education (WSARE) via University of Idaho, \$4,000.
- (2004-2005) "Assessing the Adaptive Capacity of Collaboratively Managed Rangeland Ecosystems," Hewlett Foundation via University of Virginia, \$15,380.
- (2003-2008) "Understanding, Evaluating and Enhancing Community-based Collaboratives and Participatory Research Processes on Colorado Rangelands," Colorado Agricultural Experiment Station, approx. \$48,000 per year since 2003.
- (2002-2005) "A Range Management Curriculum and Participatory Planning Project for the Tohono O'odham Nation," USDA Western Sustainable Agriculture Research and Education (WSARE), \$99,963.
- (2002-2003) "An Evaluation of Arizona Cooperative Extension's Rangeland Monitoring Program," Cooperative Extension Natural Resources Program Grant, \$7,000.
- (2000-2004) "Collaborative Resource Management, Local Knowledge, and Rangeland Health," Arizona Agricultural Experiment Station, approx. \$25,000 per year for 4 years.
- (2000-2001) "Grazing Effects on Soil Nitrogen Dynamics," University of Arizona Faculty Small Grant, \$5,000.
- (1998-1999) "Institutionalizing Traditional Knowledge for Resource Management in Mongolia," International Research and Exchanges Board (IREX), \$2,500 plus transportation and visa costs.
- (1994-1995) Individual Advanced Research Opportunity, International Research and Exchanges Board (IREX), \$7,000 plus transportation, visa and living costs.
- (1994-1995) National Geographic Research and Exploration Grant, \$24,000.

Funded Projects as Co-PI

- (2007) “Snow Accumulation and Ablation Patterns in Areas with, and without Sagebrush Cover,” Co-PI with Steven Fassnacht and Paul Meimen, Warner College of Natural Resources Teaching, Research, and Outreach Grants, \$9,995.
- (2005-2008) “Decision-making in Rangeland Systems: An Integrated Ecosystem-Agent-Based Modeling Approach to Resilience and Change,” Senior Project Personnel with PIs Kathy Galvin, Dennis Ojima, Randall Boone, Michelle Betsill, and Philip Thornton (International Livestock Research Institute), National Science Foundation, \$630,000.
- (2005-2006) “Research Coordination for Community-based Forestry Demonstration Program Year 2,” Co-PI with Antony Cheng, Ford Foundation, \$250,000.
- (2004-2005) “Research Coordination for Community-based Forestry Demonstration Program Year 1,” Co-PI with Antony Cheng, Ford Foundation, \$250,000.
- (2000-2004) “Southwest Rangelands Invasive Plant Initiative,” Co-PI with Larry Howery (U. of Arizona), Mark Brunson and Nicole McCoy (Utah State University), and Richard Lee and Jeannie Gleason (New Mexico State University), USDA Initiative for Food and Agriculture Systems, \$621,455.
- (1999-2002) “Traditional Ecological Knowledge of Beluga Whales: Local Documentation and Cooperative Application in Alaska,” Co-PI with Henry P. Huntington (Huntington Consulting) and Kathryn J. Frost (Alaska Dept. of Fish and Game), National Science Foundation, \$270,000.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Membership in Professional Societies:

Society for Range Management
Ecological Society of America
American Institute of Biological Sciences
International Association for the Study of Common Property
International Association for Society and Natural Resources
Alaska Anthropology Association 1997-2001
International Union of Anthropological and Ethnological Sciences 1998-2002

Office in Professional Societies:

Co-chair, International Affairs Committee, Society for Range Management 2004-2006
Secretary-Treasurer, Colorado Section, Society for Range Management 2004
Activities Chair, Arizona Section, Society for Range Management 2000-2003
Steering Committee Member, Community-based Collaboratives Research Consortium 2002-present

Editorial Board:

Consulting Editor, *Nomadic Peoples*

Other Professional Service:

Science Advisory Panel, Malpai Borderlands Group, Douglas, AZ 2004-present
Rangelands West Partnership (WDC-1) (previously Rangelands West liaison), 2003-present
Western Regional Coordinating Committee WERA TEMP-1761, Application and Utility of the Ecological Site and Condition Concept for Monitoring Rangeland Ecological Status in the Western U.S., 2006-present
Western Regional Coordinating Committee WCC-40, Rangeland Ecology and Assessment, 1999-2003
Tohono O’odham Coordinated Resource Management Planning Group, 1999-2003
Common Ground Roundtable Sustainable Ranching Working Group, 2001-2003

Grant Refereeing:

National Science Foundation 2007
Social Science and Humanities Research Council of Canada 2004
Volkswagen Foundation 2002, 2005
International Research and Exchanges Board 1999-2001

Manuscript Refereeing:

Environmental Conservation, Human Ecology, The Geographical Review, Journal of Range Management/Rangeland Ecology & Management, Journal of Applied Ecology, Polar Research, Conservation Biology, Journal of Arid Environments, World Development, Ecological Restoration, Nomadic Peoples, Development and Change, Human Organization, Journal of Vegetation Science, South African Journal of Range and Forage Science, Basic and Applied Drylands Research, Society and Natural Resources.

HONORS AND AWARDS

2005, White House Conference on Cooperative Conservation, Certificate of Recognition for Outstanding Leadership and Personal Stewardship, nominated by the Uncompahgre Plateau Project and Public Lands Partnership
1995-1996, Dean's Dissertation Fellowship, University of California, Berkeley
1994-1995, University of California Club Fellowship, University of California, Berkeley
1993, Sigma Xi Research Grant, University of California, Berkeley
1992, Pack Essay Prize for Writing on Natural Resource Issues, University of California, Berkeley
1992-1995, National Science Foundation Graduate Fellowship, University of California, Berkeley
1991-1992, Switzer Environmental Fellowship, University of California, Berkeley
1990-1991, Regents' Fellowship, University of California, Berkeley

OTHER ACTIVITIES/ACCOMPLISHMENTS**Sponsorship of visiting scholars:**

2007 Host to Dr. Dorligsuren, Dr. Batbuyan and Ms. Enkh-Amgalan, visiting Mongolian scholars (1 week in February 2007)
2006 Mentor to Mr. Farid Alfazi, Bourlag Fellow from Afganistan (5 weeks in fall 2006)
2005 Host to Ms. S. Saruul, visiting Mongolian scholar (2 weeks in February 2005)
2001 Sponsor and host to Dr. B. Batbuyan, IREX Visiting Fellow, University of Arizona (4 months in fall 2001)

Consultations related to professional expertise:

2006 Consultant to Government of Mongolia and The World Bank, contributed to herder profiles study.
2006 Reviewer, Sierra Nevada Adaptive Management Plan
2006 Consultation with CAMnet and the BLM on adaptive management (pro-bono)
2005 Consultation with Pine Ridge Lakota Tribe on community-based management and monitoring (pro-bono)
2004 Provided comments to the Government of Mongolia on proposed revisions to pasture land legislation (pro-bono).
2004 Consultation with Gunnison Sage Grouse Working Group facilitator on collaborative adaptive management (pro-bono)
2003 Consultant to The World Bank, reviewed report on cashmere trade policy in Mongolia.
2000 Consultant to the Public Broadcasting System (PBS) in development of the television documentary "Earth on Edge," which included a segment on Mongolian grasslands (pro-bono)
1999 Consultant to The World Bank, report on implications of Mongolia's Land Law for pasture land tenure and management; concept paper on the feasibility of pastureland co-management in Mongolia
1995 Consultant to FAO/IFAD on pastoral risk assessment
1993 Consultant to Asian Development Bank as a team member for the Policy Alternatives for Livestock Development in Mongolia project on land tenure and pasture management