

Brev Curriculum Vitae

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POSITIONS

2006—present Founder and Director, The Kerulos Center (www.kerulos.org)
2008-present Adjunct Faculty, Psychology, Southern Oregon University
2006—present Adjunct Faculty, Psychology, Pacifica Graduate Institute, CA.
1991—present Adjunct Faculty, Environmental Sciences Graduate Program,
1991—2005 Adjunct Faculty, Department of Forest Sciences, Oregon State
University
1991—2005 Adjunct Faculty, Department of Electrical Engineering, Oregon State
University
2001-2002 Research & Monitoring Coordinator, Rogue River National Forest, OR.
2000-2002 Community-Science Liaison, Applegate Adaptive Management
Area, Rogue River National Forest, OR
1991—2001 Research Mathematician, PNW Research Station, USDA
1999—2000 Fellow, NSF National for Ecological Analysis (NCEAS), Santa Barbara
1984-present Tournierre de Plat Scholar

EDUCATION

B.A. 1978 Linguistics (Chinese), University of California, Santa Barbara
M.Sc. 1988 Geophysics, Stanford University
Ph.D. 1991 Forest Ecology, Oregon State University
(dissertation: *Analysis of hierarchical pattern and process in Douglas-forests using the Wavelet Transform*)
Ph.D. 2005 Depth Psychology, Pacifica Graduate Institute, Santa Barbara
(dissertation: *Elephant trauma and recovery: from human violence to trans-species psychology*).

University coursework in language studies completed at the University of Copenhagen,
Monterey Institute of Foreign Studies, Taiwan Normal University

SELECTED PUBLICATIONS

- Bradshaw, G.A.** 2010. "Minding the Animal Psyche", *Spring*, Guest editor.
- Bradshaw, G.A.** in press. You see me, but do you hear me? The science and sensibility of trans-species dialogue. *Feminism & Psychology*.
- Bradshaw, G.A., B. Smuts, D. Durham,** in press. Open Door Policy: The necessary relinquishment of humanity's "right to sight", in R. Acampora (ed). *Metamorphoses of the Zoo: Animal Encounter After Noah*. Rowman & Littlefield Publishers
- Bradshaw, G.A.** in press. Animal Ways. In "Women, Social Justice, and Animal Advocacy: Exposing and Dismantling Systems of Oppression." L. Kemmerer, (ed.). University of Illinois Press.
- Bradshaw, G.A.** 2009. The world of trans-species psychology. Bear in Mind, Bear in Mind, *Psychology Today*. <http://www.psychologytoday.com/blog/bear-in-mind>
- Bradshaw, G.A. et al.** 2009. Developmental context effects on bicultural Post-Trauma Self Repair in Chimpanzees. *Developmental Psychology*. 45: 5,1376-1388.
- Marino, L., G.A. **Bradshaw**, R. Malamud, 2009. Captivity Industry: The reality of zoos and aquariums. *Best Friends Magazine*. March/April.
- Bradshaw, G.A.** 2009. Elephants and the New Animal Protection Conservation. In M. Bekoff, *Encyclopedia of Animal Rights and Animal Welfare*, ABC-CLIO. Santa Barbara, CA.
- Bradshaw, G.A.** 2009. Inside looking out: neurobiological compromise effects in elephants in captivity. *An elephant in the room: the science and wellbeing of elephants in captivity*, D. L. Forthman, L. F. Kane, David Hancock, and P. F. Waldau. Tufts Center for Animals and Public Policy. p.55-68.
- Bradshaw, G.A., J. Yenkosky, & E. McCarthy.** 2009. Avian affective dysregulation: Psychiatric models and treatment for parrots in captivity. Proceedings of the Association of Avian Veterinarians. 28th Annual Conference, Minnesota.
- Bradshaw, G.A.** 2009. Transformation through service: trans-species psychology and its implications for ecotherapy. *Ecotherapy*. (eds.) L. Buzzell and C. Chalquist. *Sierra Club*.
- Borchers, J.G., and **Bradshaw, G.A.** 2008. How green is my valley—and mind. Ecotherapy and the greening of psychology. *Counseling Today*, pp. 38-41.
- Marino, L., **Bradshaw, G.A., R. Malamud.**2009. The captive industry: the reality of zoos and aquaria. *Best Friends Magazine*.
- Bradshaw, G.A.** 2008. What's love got to do with it? Everything. Interspecies love. *Best Friends Magazine*. November/December.
- Bradshaw, G.A. et al.** 2008. Building an inner sanctuary: trauma-induced symptoms in non-human great apes. *Journal of Trauma and Dissociation*. 9(1); p. 9-34.
- Bradshaw, G.A.** 2007. Elephants in captivity: analysis of practice, policy, and the future, *Society & Animals* 1-48.
- Bradshaw, G.A. & A.N. Schore.** 2007. How elephants are opening doors: developmental neuroethology, attachment, and social context. *Ethology*, 113: 426-436.

- Bradshaw**, G.A., & R. M. Sapolsky. 2007. Mirror, Mirror. *American Scientist*. 94(6). 487-489.
- Bradshaw**, G.A. & L. Marino. 2007. Kin under the skin. *Best Friends Magazine*. November 2007.
- Bradshaw**, G.A. 2007. Of Pachyderms, Perils, and People. The George Lucas Foundation Press, 3(7), 24-25.
- Orosz, S. & G.A. **Bradshaw**. 2007 Neuroanatomy of the companion avian parrot. *The Veterinary Clinics of North American: Exotic Animal Practice: Neuroanatomy and Neurodiagnostics*. (eds. L. Tell & M. Knipe). 10(3) 775-802.
- Bradshaw**, G.A. & L. Marino. 2007. Kin under the skin. *Best Friends Magazine*. Nov, 2007.
- Bradshaw**, G.A. & D. Durham. 2007. Restoring natural balance: animal trauma and recovery. *Natural Horse*. April/.May
- Bradshaw**, G.A., Linden, P. G., & Schore, A.N. 2005. Behavioural and physiological effects of trauma on *Psittacines*. Proceedings of the Association of Avian Veterinarians. 26th Annual Conference, August 9-11, 2005, Monterey, CA.
- Bradshaw**, G.A., Schore, A.N., Brown, J Poole, J. & Moss, C.J. 2005. Elephant breakdown. *Nature*. 433: 807.
- Bradshaw**, G.A. & B. L. Finlay. 2005. Natural Symmetry. *Nature* 435:149.
- Bradshaw**, G.A. & M. Watkins. 2006. Trans-species psychology; theory and praxis. *Spring*. V. 75, p. 69-94.
- Bradshaw**, G.A. 2004. Not by bread alone: symbolic loss, trauma, and recovery in elephant communities. *Society and Animals* v. 12(2) p. 143-158
- Bradshaw**, G.A. & E.L. Abe. 2006. Elephant and Human Relationships. In *Encyclopedia of animal-human relationships* (ed) M. Bekoff. Greenwood.
- Bradshaw**, G.A. 2006. No longer a mind of our own. *Seed*. June/July.
- Marquet, P.A. & G.A. **Bradshaw**. 2004. Ecosystem disruption in the Americas. *Revista Chilena de Historia Natural* 77: 369-370.
- Brugnach, M., Bolte, J. & G. A. **Bradshaw**. 2003. Determining the significance of threshold uncertainty in rule-based classification models. *Ecological Modeling*, 160 (63-76).
- Bradshaw**, G.A. & M. Bekoff. 2001. Ecology and social responsibility: the re-embodiment of science: *Trends in Ecology and Evolution*. v.16 (8). 460-465.
- Bradshaw**, G.A. & M. Bekoff. 2000. Integrating humans and nature: reconciling the boundaries of science and society. *Trends in Ecology and Evolution* 15:309-310.
- Bradshaw**, G.A. & Borchers, J. G. 2000. Narrowing the science-policy gap: uncertainty as information. *Conservation Ecology*. 4(1):7.
- Bradshaw**, G.A. 2000. Using scientific uncertainty to shape environmental policy. *United Nations. Occasional Paper*. No.13
- Bradshaw**, G.A. & Fortin, M-J. 2000. Landscape heterogeneity effects on scaling and monitoring large areas using remote sensing data. *Geographic Information Sciences*. Vol 6. No. 1, pp. 61-68.
- Marquet, P., F. Bozinovic, G.A. **Bradshaw**, C. Cornelius, H. Gonzalez, J. Gutierrez, E. Hajek, J. Lagos, F. Lopez-Cortes, L. Nunez, E. Rosello, C. Santoro, H. Samaniego, V.

- Standen, J. Torres-Mura, and F. Jaksic, 1998, *Las ecosistemas del Desierto de Atacama y area andina adyante en el norte de Chile* (Ecosystems of the Atacama Desert and adjacent Andean area in northern Chile). *Revista Chilena*. V. 71.
- Bradshaw**, G.A. 1997. Defining ecologically relevant change in the process of scaling up: implications for monitoring at the landscape level, in *Theory and Applications on Ecological Scale*. D. Petersen and V. T. Parker (editors). Columbia University Press.
- Bradshaw**, G.A., M. Fiorella, & F. Swanson. 1996. Hierarchical analysis of landscape processes in temperate forests of the Pacific Northwest. in Mooney, H.A. and Lawford, L. (eds.) *High latitude rainforests and associated ecosystems of the west coast of the Americas* New York: Springer-Verlag.
- Bradshaw**, G.A. & S. Garman. 1994, Detecting fine-scale disturbance in forested ecosystem as measured by large-scale landscape patterns, in *Environmental Information Management and Analysis: Ecosystem to Global Scales*. Taylor & Francis, London.
- Bradshaw**, G.A., & McIntosh, B.A. 1993, Detecting climate-induced change using wavelet analysis. *Environmental Pollution*. 83 (1 & 2): 135-142.
- Spies, T.A., W.J. Ripple, and G.A. **Bradshaw**. Dynamics and pattern of a managed coniferous forest landscape. *Ecological Applications*, 4(3): 555-568.
- Ripple, W.J., G.A. **Bradshaw**, and T.A. Spies. 1991a. Measuring Forest Landscape Patterns in the Cascade Range of Oregon, USA. *Biological Conservation*. 57:73-88.
- Deutschman, D.H., G.A. **Bradshaw**, W.M. Childress, K.L. Daly, D. Grunbaum, M. Pascual, N.H. Schumaker, and J. Wu. 1993. Mechanisms of patch formation. Pages 184-209 in S.A. Levin, T.M. Powell, and J.H. Steele, editors. *Patch Dynamics*. Lecture Notes in Biomathematics 96. Springer-Verlag. New York.
- Garcia-Moliner, G., D. M. Mason, C. H. Greene, A. Lobo, B. Li, J. Wu and G. A. **Bradshaw**. 1993. Description and analysis of spatial patterns. Pages 70-89 In: S.A. Levin, T.M. Powell, J.H. Steele (eds.). *Patch Dynamics*. Springer-Verlag, Berlin.
- Bradshaw**, G.A., & T.A. Spies. 1992. Characterizing canopy gap structure in forests using the wavelet transform. *Journal of Ecology*. 80: 205-215.

Books

- Bradshaw**, G.A. 2009. *Elephants on the Edge: What animals teach us about humanity. breakdown*. Yale University Press. Selected by Scientific American Best Books of 2009
<http://www.scientificamerican.com/article.cfm?id=recommended-dec-09>;
http://scienceblogs.com/confessions/2010/01/best_science_books_2009_scient.php
- Bradshaw**, G.A., & P. Marquet. (eds). 2002. *How landscapes change: Human disturbance and ecosystem disruptions in the Americas*. Springer-Verlag.

Media Coverage

Elephant PTSD ABC 20/20.

Elephant Rage. National Geographic Channel's *Explorer*, June 5, 2005 (Interview).

Losing the Elephants. Swell Films, 2007 (Interview).

Oh Father, Where Art Thou? Social breakdown and Fatherlessness in African-American Communities. Interviewed documentary, 2007 (Interview).

Other Interviews (2006--present): New York Times, Irish Public Radio, USA Today, ABC 20/20, NPR, National Geographic Explorer, BBC, National Geographic Films, Time Magazine, CBC The Current (Canada), Daily Express, Natural Resource Defense Council, Austrian Public Radio, New Scientist, Harvard Mental Health Letters, Reader Digest UK, Weekly Reader, Scholastic, Stern-Neon (Germany), National Geographic Magazine France, Smithsonian, Vega (Brasil), Utne Reader, Outside Magazine, The Sunday Telegraph, The London Times, American Scientist (Germany), National Public Radio.

OTHER PROFESSIONAL EXPERIENCE

Panel Member, Review Team, Sierra Nevada Framework for Conservation and Collaboration, *Inter-agency Draft Environmental Impact Statement*. 1999.

Steering Committee Member. *AMIGO (Americas Inter-Hemispheric Geo-biosphere Organization)*. Stanford, California.

Consultant, Monitoring Design for the Federal Interior Columbia Basin Assessment, USDA/UDI Boise, ID. 1998.

Member, *Inter-Agency Team of the Northwest Forest Plan Monitoring Plan for Biodiversity*.

U.S. Lead, International Long Term Ecological Research (*LTER: South Africa*). 1999.

Steering Committee Member and Sub-Committee Chair, *Science Implementation, IAI (Inter Americas Institute for Global Change)*. Duke University, North Carolina. 1994.

CONFERENCES (LEAD ORGANIZER)

Common Hearts, Common Minds: The Emergence of Trans-Species Psychology. First Annual Conference of the Trans-Species Institute, Santa Barbara California, May 8-10 2009.

Trans-species psychology: Theory and Practice. Southern Oregon University. 16-18 June 2008.

Statistical inference and environmental policy. 2001. NSF/USDA Forest Service. Santa Barbara, CA.

Decision Strategies for Complexity and Uncertainty in Natural Resource Management in British Columbia, Canada. Workshop. 2000. Southern Interior Forest Extension & Research Partnership. Kelowna, B.C., Canada.

Re-thinking the "and" in humans and nature: ecology at the boundary of the human dimension. 2000. Ecological Society of America Annual Meeting. Snowbird, Utah.

Human-Nature Boundaries. 2000. National for Ecological Analysis and Synthesis. Workshop, Santa Barbara, California, USA.

- Habitat Fragmentation Effects Across Biomes in the Americas*. 1997. Maitencillo, Chile. Inter-Americas Institute for Global Change and National Science Foundation (IAI-NSF; co-chair P. Marquet).
- Biological Invaders, Fire and Fragmentation in the Americas*. 1996. Inter-Americas Institute for Global Change and National Science Foundation (IAI-NSF). Silver Falls, Oregon. USA (co-chair, H. Mooney).
- Sampling Aquatic Network and Watersheds Across Scales* 1995. Center for the Analysis of Environmental Change Consortium. Timberline, Oregon

SELECTED INVITED PRESENTATIONS *

*Since 2002, Dr. Bradshaw accepts only very few speaking engagements to honor the cultural values of elder animal family members.

Academic

- Bradshaw, G.A. 2008. Of Pachyderms and People: Trans-species Psychology Theory (Workshop). 27th Annual UC Davis National Child Abuse and Neglect Conference. 10/27/2008 to 10/29/2008.
- Bradshaw, G.A. 2008. Of Kin Under the Skin: What We are Learning about Human Trauma from Animal Experiences. (Workshop). 27th Annual UC Davis National Child Abuse and Neglect Conference. 10/27/2008 to 10/29/2008
- Bradshaw, G.A. 2001 Red Herrings: the American Indian in the Discourse of Ecology and Conservation. American Heritage Institute. Wyoming.
- Bradshaw, G.A. 2000. *Re-thinking the "and" in humans and nature: ecology at the boundary of the human dimension*. (Symposium). Ecological Society of America Annual Meeting.
- Bradshaw, G.A. 2000. *Implicate ecology: a relational approach to integrating indigenous and Euro-American sciences*. National Centre for Ecological Analysis and Synthesis (NCEAS).
- Bradshaw, G.A. J. G. Borchers, and G. Weaver. 2000. *Building bridges between science and forest policy: Methods and tools*. 7 - 12 August 2000. XXI IUFRO World Congress. Kuala Lumpur, Malaysia.
- Bradshaw, G.A. 1999. *Using scientific uncertainty to shape forest policy*. United Nations. International Forum on Forestry, Geneva, Switzerland
- Bradshaw, G.A. Two-D Wavelet Analysis. Institute of Mathematics and Physics. Royal Institute of Agriculture and Veterinary Sciences. University of Copenhagen, Danmark.
- Bradshaw, G.A. 1- and 2-D Wavelet Analysis for Environmental Analysis. Centre National d'Etudes Spatiales (CNES), Toulouse, France.
- Bradshaw, G.A. and Jill Anthony. 1999. *Two-dimensional analysis for characterizing multi-scale species range data*. (Symposium) Ecological Society of America Annual Meeting. Snowbird Utah.

- Bradshaw, G.A. and J.G. Borchers. 1999. *Scientific Uncertainty and Environmental Policy Formulation*. Presentations to Oregon State Legislature committees, February.
- Bradshaw, G.A. 1998. *Articulating the science-policy gap: models, perception and uncertainty*. Universite de Laval. Quebec City. Quebec. Canada. March, 1998.
- Bradshaw, G.A. 2000. *Integrating Indian and non-Indian approaches to conservation and decision making*. California Tribes and Federal Land Agency Consultation. USDA Forest Service Province Planning for Southern California. Buellton, California.
- Bradshaw, G.A. *Integrated monitoring and landscape implementation design using Bayesian belief networks and objectives hierarchies for stakeholder modeling*. Grand Canyon Research and Monitoring Center. December 2000.
- Bradshaw, G.A. *Uncertainty, Perception, and Scaling. Implications for Large-scale Monitoring*. Université de Laval, Québec, 7 April, 1999.
- Bradshaw, G.A. and J.G. Borchers. 1998. *Global Climate Change and the Columbia River Basin: The Science-Policy Gap and Model Uncertainty*, Oregon Chapter American Fisheries Society, 34th Annual Meeting: *Population, Economics, and Ecosystems: Is Sustainability Attainable?* February 11-13, 1998, Sunriver, Oregon.
- Bradshaw, G.A., J.G. Borchers and R.P. Neilson. 1997. *Articulating the Science-Policy Gap: Models, Uncertainty, and Perception*. Invited talk, Annual Meeting of the Ecological Society of Chile, 18-22 November, 1997, Pucón, Chile.
- Bradshaw, G. A., M. Fiorella, P. Ringold and J. Barker. 1998. *Characterizing ecological signatures across scales: assessing data-capture methods for riparian ecosystem monitoring*. 3rd Intl. Symposium: Spatial Accuracy Assessment Proc., Quebec, Canada.
- Bradshaw, G.A. *Land-use and land conversion patterns: examples from the western US*. IAI-NSF AMIGO Conference on Biological Invaders, Silver Falls, OR. 1997.
- Bradshaw, G.A. 1997. *Using hierarchically-structured models for monitoring and land management plan development*. University of Durban, South Africa.
- Bradshaw, G.A. and G. Weaver. 1997 *A stochastic-GIS base watershed models examining the effects of spatial pattern on the large woody debris dynamics in PNW streams* Ecological Society of America. Providence, Rhode Island
- Bradshaw, G.A. *Habitat alteration effects on landscapes across biomes in the Americas*. IAI-NSF Principal Investigators Conference, Long Beach. CA.
- Bradshaw, G.A. 1997. *Underlying land-use patterns and processes in western USA*. IAI-AMIGO Conference on Habitat Fragmentation in the Americas. Maitencillo, Chile. November.
- Bradshaw, G.A. and M.-J. Fortin. 1997. *Effects of landscape anisotropy on sampling designs in aquatic and forested systems*. (Symposium). Ecological Society of America Conference. Albuquerque, New Mexico.
- Bradshaw, G.A. 1997. *Data compression and pattern analysis: comparing wavelet and Fourier analysis*. University of British Columbia (Department of Mathematics).
- Bradshaw, G.A., 1997. *Characterizing canopy gap structure in forests using the wavelet transform*. Ministry of Forestry, British Columbia, Canada.

FUNDING

National Science-Foundation, Environmental Protection Agency, , Inter-Americans
Institute for Global Change, Smithsonian Institute, NASA, USDA Forest Service, AFF and
Best Friends Animal Society