

CURRICULUM VITAE

Bobbi S. Low

School of Natural Resources and Environment
University of Michigan
Ann Arbor, Michigan 48109-1115

EDUCATION

PhD (1967), MA (1964) University of Texas. NDEA PreDoctoral Fellow 1965-67. Dissertation: Evolution in the genus *Bufo* (Anura): biochemical aspects.

BA with Honors (1962). University of Louisville. Biology and Chemistry.

PROFESSIONAL POSITIONS

Professor, School of Natural Resources and Environment, University of Michigan
(1992-present)

Field of Study Coordinator, Conservation Ecology (2008-2011)

Chair, Resource Ecology and Management Concentration (2000-2003)

Associate Director, Population-Environment Dynamics Program, University of Michigan (1998-2003)

Faculty Associate, Institute of Social Research, U. Michigan (1999-present)

Member, Evolution and Human Behavior Program, University of Michigan (1985-present;
director 2002-2004)

Associate Professor, School of Natural Resources, University of Michigan (1975-1992).

Assistant Professor, School of Natural Resources, University of Michigan (1972-75).

Research Associate, Commonwealth Scientific and Industrial Research Organization,
Rangelands Research Unit, Alice Springs, Australia (1969-72). Arid grassland use by
marsupial herbivores.

Post Doctoral Fellow, University of British Columbia Medical School (1967-69). Canadian
Medical Research Council Fellowship in Comparative Physiology.

PUBLICATIONS: most journal articles can be downloaded from:

https://www.researchgate.net/profile/Bobbi_Low/contributions?ev=prf_act or

http://scholar.google.com/citations?user=lG_EaGIAAAAJ

Books

Low, Bobbi S. 2015. *Why Sex Matters: A Darwinian Look at Human Behavior*. revised edition.
Princeton: Princeton University Press. January 2015.

- Braude, S., and Bobbi Low. 2010. *Methods and Models in Evolution, Ecology, and Conservation Biology*. Princeton University Press.
- Braude, S., and Bobbi Low. 2010. *Methods and Models in Evolution, Ecology, and Conservation Biology. Instructor's Manual*. Princeton University Press.
- Costanza, R., B. S. Low, E. Ostrom, and J. Wilson (Eds.). 2001. *Institutions, Ecosystems, and Sustainability*. New York: Lewis Publishers. 270 pp.
- Low, Bobbi S. 2000. *Why Sex Matters: A Darwinian Look at Human Behavior*. Princeton: Princeton University Press. 412 pp.
- Low, Bobbi S., Alice L. Clarke, and K. Lockridge. 1991. *Family Patterns in Nineteenth-Century Sweden: Variation in Time and Space*. Swedish Demographic Database Monograph #6: 1-157.

Books Forthcoming

- Low, Bobbi S., Courtney Murdock, Matt Dietz, P. Bednekoff. *Behavioral Ecology: Life Histories and Conservation in a Changing World*. Oxford University Press.

In Press

- Low, Bobbi S. in press. Human behavioral ecology. Oxford Bibliographies Series. (Supposed to be uploaded to the Oxfprd site in May 2016.)
- Low, Bobbi S. in press. Competition throughout women's lives. In M. Fisher (Ed.), *The Oxford Handbook of Women and Competition*. New York: Oxford University Press. *Online publication 2015*:
<http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199376377.001.0001/oxfordhb-9780199376377>
- Boyce, W. T., R. Lolo, S. Suomi, J. Brooks-Gunn, K. Groscurth, S. Cherng, M. Gardner, B. Low, A. Dettmer-Erard, and C. P. Simon. In press. Developmental complexity: Modeling social inequalities in young children and macaques. Chapter 3 in G. Kaplan (ed.). *Growing Inequality: Bridging Complex Systems, Population Health, and Health Disparities*. Westphalia Press, 2016.

Reviewed Papers/Chapters: Human Evolution, Ecology, Demography, Behavior

- Low, Bobbi S. 2015. Competition through women's lives. Oxford Handbooks Online at
<http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199376377.001.0001/oxfordhb-9780> Print edition expected late 2015.
- Hazel, A., B. Foxman, B. Low. 2014. Herpes simplex virus type 2 among mobile pastoralists in northwestern Namibia. *Annals of Human Biology*. DOI: 10.3109/03014460.2014.970575.
- Hazel, A., S. Ponnaluri, G. Davis, B. Low, and B. Foxman. 2014. High prevalence of *Neisseria gonorrhoeae* in a remote, undertreated population of Namibian pastoralists. *Epidemiology and Infection* 142(11): 2422-2432. Doi: 10.1017/S0950268813003488.

- Low, Bobbi S. 2013. Fertility: Life history and ecological aspects. Pp. 222-242 in Maryanne L. Fisher, Justin R. Garcia, & Rosemarie Sokol Chang (Editors.). *Evolution's Empress: Darwinian Perspectives on the Nature of Women* New York: Oxford University Press.
- Low, Bobbi S., Ashley Hazel, Nicholas Parker, Kathleen B, Welch. 2013. Life expectancy, fertility, and women's lives: A life-history perspective. *Cross-Cultural Research* 47(2):198-225.doi: 10.1177/1069397112471807.
- Low, Bobbi S. 2013. Thinking about human aggression, past and present: Alexander and Tinkle's (1968) review of Lorenz and Ardrey. Pp 125-129 in Kyle Summers and Bernard Crespi (eds.) *Human Social Evolution: The Foundational Works of Richard D. Alexander*. Oxford University Press.
- Low, Bobbi S. 2011. Gender equity in evolutionary perspective. In Craig Roberts (ed.). *Applied Evolutionary Psychology*. Oxford University Press.
- Low, Bobbi S. 2009. Marriage and family: The evolutionary ecological context. In H. Elizabeth Peters and Claire Kamp Dush (eds.). *Marriage and Family: Complexities and Perspectives*. New York: Columbia Press (pp.3-56).
- Borgerhoff Mulder, M., S. Bowles, T. Hertz, A. Bell, J. Beise, G. Clark, I. Fazzio, M. Gurven, K. Hill, P. L. Hooper, W. Irons, H. Kaplan, D. Leonetti, B. Low, F. Marlowe, S. Naidu, D. Nolin, P. Piraino, R. Quinlan, R. Sear, M. Shenk, E. A. Smith, P. Weissner. 2009. The intergenerational transmission of wealth and the dynamics of wealth in pre-modern societies. *Science*. 326(5953): 682-688.
- Shenk, Mary K., M. Borgerhoff Mulder, S. Bowles, J. Beise, G. Clark, W. Irons, D. Leonetti, Bobbi S. Low, T. Hertz, A. Bell, P. Piraino. 2009. Intergenerational wealth transmission among agriculturalists. *Current Anthropology* 51(1): 65-82.
- Low, Bobbi S., Ashley Hazel, Nicholas Parker, Kathleen B, Welch. 2008. Influences on women's reproductive lives: Unexpected ecological underpinnings. *Cross-Cultural Research* 42:201-219.
- Ember, Melvin, Carol Ember, Bobbi S. Low. 2007. Comparing explanations of polygyny. *Cross-Cultural Research* 41:428-440.
- Low, Bobbi S. 2007. Ecological and Sociocultural influences on mating and marriage systems. Chapter 30 (pp. 449-462) in Robin Dunbar and Louise Barrett (eds.). *The Oxford Handbook of Evolutionary Psychology*. Oxford University Press, Oxford.
- Nepomnaschy, P. A., K. B. Welch, D. S. McConnell, B. S. Low, B. I. Strassmann, and B. G. England. 2006. Cortisol levels and very early pregnancy loss in humans. *Proceedings of the National Academy of Sciences* 103(10): 3938-3942.
- Low, Bobbi S. 2006. Whither thou goest: An evolutionary perspective on migration. Chapter 2 (pp. 15-32) in R. Mahalingham (ed.). *Cultural Psychology of Immigrants*. Mahwah, NJ: Lawrence Erlbaum

- Low, Bobbi S. 2005. Families: An evolutionary ecological approach. Pp. 14-32 in J. L. Roopnarine, and U. Gielen. (eds.). *Families in Global Perspective*. Boston, MA: Allyn & Bacon.
- Low, Bobbi S. 2005. Women's lives there, here, then, now: a review of women's ecological and demographic constraints cross-culturally. *Evolution and Human Behavior* 26: 64-87.
- Low, Bobbi S. 2004. The biological bases of sex differences. pp. 27-33 in *The Encyclopedia of Men and Women*, ed. M. Ember and C. Ember. Kluwer Press.
- Yanca, Catherine, and Bobbi Low. 2004. Female allies and female power: A cross-cultural analysis. *Evolution and Human Behavior* 25: 9-23.
- Low, Bobbi S. 2003. Ecological and social complexities of human monogamy. pp. 161-176 in C. Boesch and U. Reichart (eds.). *The Evolution of Monogamy*. Cambridge: Cambridge University Press.
- Anderson, K. G., and Bobbi S. Low. 2003. Non-marital first births and women's life histories. Pp. 57-86 in J. Rogers and H-P. Kohler (eds.). pp. *The Biodemography of Human Fertility and Reproduction*. Kluwer Press.
- Low, Bobbi S., C. P. Simon, and K. G. Anderson. 2003. The biodemography of modern women: Tradeoffs when resources become limiting. Pp. 105-134 in J. Rogers and H-P. Kohler (eds.). *The Biodemography of Human Fertility and Reproduction*. Kluwer Press.
- Low, Bobbi, C. P. Simon, and K. G. Anderson. 2002. An evolutionary perspective on demographic transitions: Modeling multiple currencies. *Am. J. Human Biology* 14(1): 149-167.
- Low, Bobbi S. 2001. Sex, wealth, and fertility: Old rules, new environments. In L. Cronk, N. Chagnon, and W. Irons (eds.). *Adaptation and Human Behavior: An Anthropological Perspective*. New York: Aldine.
- Hill, E. M., L. T. Ross, and B. Low. 1997. The role of future unpredictability in human risk-taking. *Human Nature* 8(4): 287-325.
- Knodel, John, Bobbi S. Low, Chanpen Saengtienchai, and Rachel Lucas. 1997. An evolutionary perspective on Thai sexual attitudes and behavior. *J. Sex Research* 34(3): 292-303.
- Low, Bobbi S. 1996. Comparing snakes and snails and puppy-dog tails to sugar and spice: reflections on cross-cultural testing of hypotheses. Pp. 360-362 in L. Betzig (ed.). 1996. *Human Nature: A Critical Reader*. Oxford University Press.
- Low, Bobbi S. 1994. Human sex differences in behavioral ecological perspective. *Analyse & Kritik* 16: 38-67.
- Low, Bobbi S. 1994. Men in the demographic transition. *Human Nature* 5(3): 223-253.
- Low, Bobbi S. 1994. Pathogen intensity cross-culturally. *World Cultures* 8(1): *Analytic Techniques*.
- Low, Bobbi S. 1993. An evolutionary perspective on war. Pp. 13-56 In H. Jacobson and W. Zimmerman (eds.). *Behavior, Culture, and Conflict in World Politics*. Univ. Michigan Press, Ann Arbor.
- Low, Bobbi S. 1993. Ecological demography: A synthetic focus in evolutionary anthropology. *Evolutionary Anthropology* 1993: 106-112.
- Low, Bobbi S. 1993. Resources and reproduction: What hath the demographic transition wrought? *Behavioral and Brain Sciences* 16(2):300.

- Low, Bobbi S., and Alice L. Clarke. 1993. Historical perspectives on population and environment: Data from 19th century Sweden. Pp. 195-224 in Gayl Ness and William Drake (eds.). *Population-Environment Dynamics: Proceedings of the International Symposium on Population and Environment*. U. Michigan Press.
- Clarke, Alice L., and Bobbi S. Low. 1992. Resources and reproductive patterns: The role of migration. *Animal Behavior* 44: 677-693.
- Low, Bobbi S., and Alice L. Clarke. 1992. Resources and the life course: Patterns in the demographic transition. *Ethology and Sociobiology* 13(5-6): 463-494.
- Low, Bobbi S., Alice L. Clarke, and K. Lockridge. 1992. Toward an ecological demography. *Population and Development Review* 18(1): 1-31.
- Low, Bobbi S. 1992. Sex, coalitions, and politics in pre-industrial societies. *Politics and the Life Sciences* 11(1): 63-80.
- Low, Bobbi S. 1991. Reproductive life in 19th century Sweden: An evolutionary perspective on demographic phenomena. *Ethology and Sociobiology* 12: 411-468.
- Hill, E., and Bobbi S. Low. 1991. Contemporary abortion patterns: A life history approach. *Ethology and Sociobiology* 13: 35-48.
- Low, Bobbi S., and Alice L. Clarke. 1990. Family patterns in nineteenth-century Sweden: Impact of occupational status and landownership. *J. Family History* 16(2): 117-138.
- Low, Bobbi S. 1990. Marriage systems and pathogen stress in human societies. *Amer. Zoologist* 30: 325-339.
- Low, Bobbi S. 1990. Occupational status, land ownership, and reproductive behavior in 19th century Sweden: Tuna parish. *Amer. Anthropologist* 92(2): 457-468.
- Low, Bobbi S. 1990. Fat and deception. *Ethology and Sociobiology* 11: 67-74.
- Low, Bobbi S. 1989. Sex, power, and resources: Male and female strategies of resource acquisition. *Intl. J. Contemp. Sociol.* 27: 45-71.
- Low, Bobbi S. 1989. Occupational status and reproductive behavior in 19th century Sweden: Locknevi parish. *Social Biology* 36: 82-101.
- Low, Bobbi S. 1989. Cross-cultural patterns in the training of children: An evolutionary perspective. *J. Comparative Psychology* 103(4): 311-319. (reprinted in L. Betzig. 1996. *Human Nature: A Critical Reader*. Oxford University Press.)
- Low, Bobbi S. 1989. Human responses to environmental extremeness and uncertainty: a cross-cultural perspective. Pp. 229-255 in Cashdan, Elizabeth (ed.). *Risk and Uncertainty in Tribal and Peasant Economies*. Westview Press, Boulder, CO.
- Low, Bobbi S. 1988. Measures of polygyny in humans. *Current Anthropology* 29(1): 189-194.
- Low, Bobbi S., R. D. Alexander, and K. M. Noonan. 1988. Response to Judith Anderson's comments on Low, Alexander, and Noonan (1987). *Ethology and Sociobiology* 9: 325-328.
- Low, Bobbi S. 1988. Comments on White's "Rethinking polygyny." *Current Anthropology* 29: 563.
- Low, Bobbi S. 1988. Pathogens and polygyny in humans. Pp. 115-127 in L. Betzig, M. Borgenhoff Mulder, and P. Turke (eds.). *Human Reproductive Behaviour: A Darwinian Perspective*. Cambridge Univ. Press, Cambridge.

- Low, B. S., R. D. Alexander, and K. M. Noonan. 1987. Evolution of human breasts and buttocks. *Ethology and Sociobiology* 8(4): 249-258.
- Flinn, Mark V., and Bobbi S. Low. 1986. Resource distribution, social competition, and mating systems in human societies. Pp. 217-243 in Richard Wrangham and Daniel Rubenstein (eds.). *Ecological Aspects of Social Systems*. Princeton Univ. Press, Princeton.
- Low, B. S. 1979. Sexual selection and human ornamentation. Pp. 462-486 in N. Chagnon and W. Irons (eds.) *Evolutionary Theory and Human Social Organization*. Duxbury Press, North Scituate, Mass.

Reviewed Papers/Chapters: Basic Theory

- Wakeley, John, Leandra King, Bobbi S. Low, and Sohini Ramachandran. 2012. Gene genealogies within a fixed pedigree, and the robustness of Kingman's coalescent. *Genetics* 190: 1433-1445.
- Epelman, M. A., S. Pollock, B. Netter, and B. Low. 2005. Anisogamy, expenditure of reproductive effort, and the optimality of having two sexes. *Operations Research* 53(3): 560-567.
- Clarke, Alice L., and Bobbi S. Low. 2001. Testing evolutionary hypotheses with demographic data. *Population and Development Review* 27(4): 663-660.
- Low, Bobbi S. 1997. The evolution of human life histories. Pp. 131-161 in C. Crawford (ed.). *Handbook of Evolutionary Psychology: Behavior: Ideas, Issues, and Applications*. Lawrence Erlbaum Assoc.
- Low, Bobbi S. 1996. Behavioral ecology, "sociobiology," and human behavior. Pp. 135-158 in M. Ember and C. R. Ember (eds) *Research Frontiers in Anthropology*. New York, Prentice-Hall
- Low, Bobbi S. 1996. Plural marriages. Pp. 948-995 in D. Levinson and M. Ember (eds). *Encyclopedia of Cultural Anthropology*, American Reference Publishing, Lakeville, CT
- Low, Bobbi S. 1996. Natural selection. Pp. 848-851 in D. Levinson and M. Ember (eds). *Encyclopedia of Cultural Anthropology*, American Reference Publishing, Lakeville, CT

Reviewed Papers/Chapters: Human Behavior, Conservation, and Sustainability

- Low, Bobbi S. 2013. Noble savages or consummate consumers: The behavioral ecology of building a green economy. *In* R. Richardson (ed.). *Building a Green Economy*. East Lansing: MSU Press.
- An, Li, D. G. Brown, J. I. Nassauer, and Bobbi Low. 2011. Variations in development of exurban residential landscapes: timing, location, and driving forces. *J. Land Use Science*. 6(1): 13-32.
- Zellner, M. L. S. E. Page, W. Rand, D. G. Brown, D. T. Robinson, J. Nassauer, and B. Low. 2009. The emergence of zoning games in exurban jurisdictions: Informing collective action theory. *J. Land Use Policy* 26(2): 356-367.
- Brown, D. G., D. T. Robinson, J. I. Nassauer, Li An, S. E. Page, B. Low, W. Rand, M. Zellner, R. Riolo, J. J. Taylor, and Z. Wang. 2008. Exurbia from the bottom up: Using multiple empirical methods to support agent-based modeling. *Geoforum* 39: 805-818.
- Low, Bobbi S. 2005. George Williams: Theoretician and guerilla environmentalist. *Quarterly Review of Biology* 80(1): 72-83.
- Low, Bobbi S. 2004. Common-pool resources as a selective pressure. *Cambridge Encyclopedia of Evolution*. Cambridge: Cambridge University Press.
- Low, Bobbi S. 2004. Unforeseen consequences of policy decisions (editor's introduction). *Population and Environment* 25(4): 277-280.
- Low, Bobbi S. 2004. Human behavioral ecology and conservation. *Endangered Species Update* 21(1): 14-22.
- Low, Bobbi S., E. Ostrom, C. P. Simon, and J. Wilson. 2003. Redundancy and diversity: Do they influence optimal management? Pp. 83-114 *in* J. Colding and C. Folke (eds.). *Navigating Nature's Dynamics*. Cambridge: Cambridge University Press.
- Costanza, R., B. S. Low, E. Ostrom, and J. Wilson (eds.). 2001. Ecosystems and human systems: a framework for exploring the linkages. Chapter 1 (pp. 3-20) *in* Costanza, R., B. S. Low, E. Ostrom, and J. Wilson (eds.). *Institutions, Ecosystems, and Sustainability*. New York: Lewis Publishers.
- Low, Bobbi, E. Ostrom, R. Costanza, and J. Wilson. 2001. Human-ecosystems interactions: a basic dynamic integrated model. Chapter 3 (pp. 33-57) *in* Costanza, R., B. S. Low, E. Ostrom, and J. Wilson (eds.). *Institutions, Ecosystems, and Sustainability*. New York: Lewis Publishers.
- Wilson, J., R. Costanza, B. S. Low, and E. Ostrom (eds.). 2001. Scale misperceptions and the spatial dynamics of a social-ecological system. Chapter 4 (pp. 59-75) *in* Costanza, R., B. S. Low, E. Ostrom, and J. Wilson (eds.). *Institutions, Ecosystems, and Sustainability*. New York: Lewis Publishers.
- Costanza, R., B. S. Low, E. Ostrom and J. Wilson (eds.). 2001. Future directions. Chapter 10 (pp. 233-245) *in* Costanza, R., B. S. Low, E. Ostrom, and J. Wilson (eds.). *Institutions, Ecosystems, and Sustainability*. New York: Lewis Publishers.
- Low, Bobbi S., Robert Costanza, Elinor Ostrom, and James Wilson. 1999. A dynamic model of a social-ecological system. *Ecological Economics* 31(2): 227-242.

- Wilson, James, Bobbi S. Low, Robert Costanza, and Elinor Ostrom. 1999. Scale misperceptions and the spatial dynamics of a social-ecological system. *Ecological Economics* 31(2): 243-257.
- Costanza, R., F. Andrade, P. Antunes, M. van denBelt, D. Boesch, D. Boersma, F. Catarino, S. Hanna, K. Limburg, B. Low, M. Molitor, J. G. Pereira, S. Rayner, R. Santos, and J. Wilson. 1999. Ecological, economics, and sustainable governance of the oceans. importance of the oceans. *Ecological Economics*.
- Costanza, R., F. Andrade, P. Antunes, M van den Belt, D. Boersma, D. Boesch, F. Catarino, S. Hanna, K. Limberg, B. Low, M. Molitor, J. G. Pereira, S. Raynor, R. Santos, J. Wilson, and M. Young. 1998. Principles for sustainable governance of the oceans. *Science* 281: 189-199.
- Low, Bobbi S. 1996. The behavioral ecology of conservation in traditional societies. *Human Nature* 7(4): 353-379.
- Low, Bobbi S. 1996. Men, women and sustainability. *Population and Environment* 18(2): 111-141.
- Low, Bobbi S. 1996. "Commons" problems in conservation biology. Pp. 665-666 in G. Meffe and R. Carroll (Eds.). *Principles of Conservation Biology*. 2nd Edition. Sinauer: Sunderland, MA.
- Cleveland, C., R. Costanza, T. Eggertsson, L. Fortmann, B. Low, M. McKean, E. Ostrom, J. Wilson, and O. Young. 1996. A framework for modeling the linkages between ecosystems and human systems. Beijer Institute, Swedish Royal Academy, Discussion Paper #76: 1-43.
- Low, Bobbi S. 1995. We're not environmental altruists — but we can solve environmental problems. "Guest Lecture" in G. Tyler Miller, *Living in the Environment* (9th ed.): 189-190.
- Ridley, Matt, and Bobbi S. Low. 1993. Can selfishness save the environment? *Atlantic Monthly* 272(3) (Sept. 1993): 76-86. *This article has been reprinted roughly a dozen times, in journals such as The Human Ecology Review, and by groups such as The Institute for Earth Education.*
- Low, Bobbi, and Matt Ridley. 1994. Why we're not environmental altruists -- and what we can do about it. *Human Ecology Review* 1(1):107-136. (Reprinted with permission in multiple venues)
- Low, Bobbi S., and Joel T. Heinen. 1993. Population, resources, and environment. *Population and Environment* 15(1): 7-41.
- Low, Bobbi, S., and Joel T. Heinen. 1993. The environment: Everybody's talking about it, but.... *Michigan Quarterly Review*, Winter 1993: 138-149.
- Heinen, Joel T., and Bobbi S. Low. 1992. The behavioral ecology of environmental conservation. *Environmental Conservation* 19(2): 105-116.

Reviewed Papers/Chapters: Behavioral Ecology of Non-Human Species

- Diana, James S., Susan Maruca, and Bobbi Low. 2006. Do increasing cormorant populations threaten sportfishes in the Great Lakes? A case study in Lake Huron. *J. Great Lakes Research* 32: 306-320.

- Low, Bobbi S., C. P. Simon, and D. Finkbeiner. 2005. Favored places in the selfish herd: Positional costs and benefits in fish schools. pp. 213-238 in L. Bookner, S. Forrest, M. Mitchell, and R. Riolo (eds.). *Perspectives on Adaptation in Natural and Artificial Systems*. Oxford University Press.
- Ward, C. and B. S. Low. 1997. Predictors of vigilance for American crows (*Corvus brachyrhynchos*) foraging in an urban environment. *Wilson Bulletin* 3:481-489
- Low, Bobbi S. and William T. Wcislo. 1992. Male foretibial plates and mating in *Crabro cribrellifer* (Packard) (Hymenoptera: Sphecidae), with a survey of expanded male forelegs in Apoidea. *Annals of the Entomological Society of America* (2): 219-223.
- Wcislo, W. T., Bobbi S. Low, and Catherine J. Karr. 1985. Parasite pressure and repeated burrow use by different individuals of *Crabro* (Hymenoptera: Sphecidae; Diptera: Sarcophagidac). *Sociobiology* 11(2): 115-125.
- Klemmedson, J., M. Hironaka, and B.S. Low. 1984. Inventory techniques of rangeland resources. In Gardner, et al. *Developing Strategies in Rangeland Management*, Westview Press, Boulder.
- Low, Bobbi S. and J. A. Berlin. 1984. Natural selection and the management of rangelands. In Gardner et al. *Developing Strategies in Rangeland Management*. Westview Press, Boulder.
- Dudzinski, M. L., W. A. Low, and B. S. Low. 1982. Joint use of habitat by red kangaroos and shorthorn cattle in arid central Australia. *Australian J. Ecology* 7: 69-74.
- Low, W. A., W. J. Muller, M. L. Dudzinski and B. S. Low. 1981. Population fluctuations and range community use by Red Kangaroos in central Australia. *J. Applied Ecology* (1981) 18: 27-36.
- Low, B. S. 1979. The predictability of rain and the foraging patterns of the red kangaroo (*Megaleia rufa*) in central Australia. *J. Arid Environments* (1979): 61-76.
- Low, B. S. 1979. Community preferences and utilization strategies of a desert herbivore. National Wildlife Federation Scientific & Technical Series III. Pecora IV Symposium. The Application of Remote Sensing Data to Wildlife Management 312-320.
- Low, B. S. 1978. Environmental uncertainty and the parental strategies of marsupials and placentals. *Amer. Naturalist* 112(983): 197-213.
- Low, W. A., and B. S. Low. 1978. Mammals. In W. A. Low et al. The physical and biological features of Kunoth Paddock in central Australia. CSIRO Division of Land Resources Mgmt. Techn. Paper #4. 137 p.
- Low, W. A. and B. S. Low. 1978. Reptiles and amphibians. In W. A. Low et al. The physical and biological features of Kunoth paddock in central Australia. CSIRO Division of Land Resources Mgmt. Techn. Paper #4. 137 p.
- Low, B. S. 1976. The evolution of amphibian life histories in the desert. Pp. 149-196 in Goodall, D. W. *Evolution of Desert Biota*. University of Texas Press, Austin & London, 250 p.
- Low, B. S., and W. A. Low. 1974. Feeding interactions of red kangaroos and cattle in an arid ecosystem. *Third World Conf. on Animal Production*, Melbourne, 1973: 87-94.
- Watson, J. A. L., C. Lendon, and B. S. Low. 1973. Termites in mulga lands. *Tropical Grasslands* 7(1): 121-126.
- Low, B. S., E. Birk, C. Lendon, and W. A. Low. 1973. Community utilization by cattle and kangaroos in mulga near Alice Springs, N.T. *Tropical Grasslands* 7(1): 149-156.

- Low, B. S. 1973. La secretion cutanea, instrumento sistematico. (text in Spanish, abstract in English). *Caldasia XI* (52): 73-97.
- Low, B. S. 1972. The parotoid gland secretions. Chap. 13, pp. 244-265 in Blair, W. F. (ed). *Evolution in the genus Bufo*. University of Texas Press, Austin & London, 459 p.
- Low, B. S. 1968. Venom polymorphism in *Bufo regularis*. *Comp. Biochem. Physiol.* 26(1): 247-257.

Reviewed Papers/Chapters: Physiological Ecology of Non-Human Species

- Copp, D. H., C. E. Brooks, B. S. Low, Frances Newsome, R. R. O'Dor, C. O. Parkes, V. Walker, and E. G. Watts. 1970. Calcitonin and ultimobranchial function in lower vertebrates. Calcitonin 1969: *Proc. II Intern. Symp.*, London, 21024. July, 1969: 281-294. Springer Verlag, New York.
- Graystone, P., B. S. Low, Joan Rogers and H. McLennan. 1970. The induced wave activity of the olfactory bulbs of toads, iguanas, and snakes. *Comp. Biochem. Physiol.* 37: 493-502.
- Licht, L., and B. S. Low. 1968. Cardiac response of snakes after ingestion of toad parotoid venom. *Copeia* 1968: 547-551.

Book Reviews, Invited Commentary, Short Pieces, Abstracts

- Low, Bobbi S. 2013. Review: Michael C. Crawford and Benjamin C. Campbell (eds.). 2012. *Causes and Consequences of Human Migration: An Evolutionary Perspective*. Cambridge U. Press. *Population and Development Review* 39(2): 22-23.
- Low, Bobbi S. 2011. Reflecting on a peculiar path in the sciences. pp. 296-300 in X. T. Wang and Y-J. Su (eds.). *Thus Spake Evolutionary Psychologists*. Peking University Press.
- Low, Bobbi S. 2010. Review of Paul Collier's *The Plundered Planet*. *Science* 329: 904.
- Nepomnaschy, PA, McConnell D, Welch K, Strassmann BI, Low BS, and England BG (2005). *Stress and female reproduction: Daily stressors, cortisol levels, the menstrual cycle, and early pregnancy*. *Amer J of Hum Biol* 17 (2): 40 (abstract)
- Low, Bobbi S. 2007. Review: *Culture, Biology, and Anthropological Demography. New Perspectives on Anthropological and Social Demography, Vol 3*, by Eric Abella Roth. *Quarterly Review of Biology* 82(1): 556.
- Low, Bobbi S. 2001. Evolving a future: Review of Paul Ehrlich's *Human Natures*. *American Scientist* 89(3): 268-270
- Low, Bobbi S., and C. P. Simon. 1995. Organismal versus organizational evolution: A review of 'The Evolutionary Dynamics of Organizations,' J.A.C. Baum and J.V. Singh (eds.). *Acad. Management Review* 20(3): 735-741.
- Low, Bobbi S. 1992. Review: In search of human nature. *Amer. Anthropol.* 94(4): 950-951.
- Low, Bobbi S., and Joel T. Heinen. 1992. How we got the way we are: Review of *Evolution and Individual Behavior*. *New Scientist* 22 Feb., 1992:46.
- Low, Bobbi S. 1989. Evolution of primate intelligence. *Quart. Rev. Biol.* 64(4): 468-470.
- Low, Bobbi S., and Randolph M. Nesse. 1989. Summary of the Evolution and Human Behavior Conferences: Ann Arbor, Michigan, April and October 1988. *Ethology and Sociobiology* 10:457-465.
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- Low, B. S. 1968. Evolution in the genus *Bufo*: evidence from the parotid gland secretions. PhD dissertation, University of Texas, 225 p. Dissertation Abstracts 28B:4351-2.

TEACHING

Summaries of course evaluations available on request. * in current portfolio.

* **Behavioral Ecology and Conservation Biology, NRE/Env 415-EEB 424**

A four-credit lecture and discussion course stressing vertebrate somatic and reproductive strategies: foraging, migration, group living and social behavior, mating and parental behavior. Application of behavioral ecology to [1] species vulnerability in management and [2] human choices of strategies for conservation

Texts: Davies et al. *Introduction to Behavioral Ecology*; readings from Williams, G. C., *Adaptation and Natural Selection*; and papers from the current literature. Syllabus available on request.

* **Human Resource Ecology, NRE 505**

Graduate lecture seminar course stressing behavioral ecology of humans, especially in the context of resource competition and acquisition. Readings from current literature.

- * **Graduate Seminars, NRE 639** include Thesis Group, Behavioral Ecology and Conservation, Male and Female Sexual Strategies, Evolution of Parental Strategies, Life History Evolution, Effects of Environmental Predictability on Life History Strategies, Human Conflicts of Interest: Their Biological Bases and Social Consequences, Cross-Cultural Patterns in Resource Use: Ecological Correlates, Intelligent Design: Science or Politics?.

* **Footprints Across Time, Environ 139**

This freshman seminar begins with calculating individual footprints. We then ask 'what is a resource?' for any living thing. Working from non-human species' use of resources to enhance survival and reproduction, we follow hominid evolution, and look at human resource use changes from traditional societies, through the agricultural and industrial revolutions, to modern national footprints.

Field Methods in Behavioral Ecology, NRE/Env 416/EEB 225

A two-hour field and laboratory, stressing hypothesis-testing and methods of data taking, analysis, and presentation.

Junior Honors Seminar, Environ 399

Hypothesis testing, assessing data quality, good written and visual communication of questions and data; design and proposal for senior honors thesis.

Senior Honors Thesis Coordinator, Environ 499. Keep honors thesis students “on track” and well-coordinated with their honors advisor.

Courses taught but not in portfolio for 5 or more years include:

Behavioral Ecology, Biology 492 (at UM Biological Station) Tools for Solving Environmental Problems, Environ 395
 Habitats and Organisms, NRE 330/507
 Ecological Issues, NRE 301 (now Environ 201)
 Ecological Information in Natural Resource Decisions, NRE 501
 Forest Mammals (at UM Camp Filbert Roth)
 Introduction to US Vertebrates, NRE 250

PROFESSIONAL SOCIETIES and SERVICE

President, Human Behavior and Evolution Society (2002-2005)

Secretary, Human Behavior and Evolution Society (1990-93)

Associate Editorships (*=current)

Proceedings of the Royal Society, Series B (2010-2014)

*Cross-Cultural Research

*Evolution and Human Behavior

Politics and the Life Sciences

Human NatureBoard Memberships (*=current)

*Knight-Wallace Journalism Fellowships

*Human Relations Area Files

Reviewer (*=current)

Human Behavior and Evolution

*Cross Cultural Research

American Anthropologist

American Naturalist

Behavior and Brain Sciences

Current Anthropology

* Proceedings of the Royal Society, Series B

*Proceedings of the National Academy of Sciences