

Darwin and Culture: Evolutionary Perspectives in Anthropology Anthropology 303a

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Spring 2009

Class Schedule and Reading List

Updated 4.7.09

1. [1.13 - Tuesday] Introduction.

2. [1.19] Martin Luther King Day – no class.

3. [1.26 - Monday] Darwin and Some Offspring

Laland, Kevin N. and Gillian Brown

2002 *Sense and Nonsense: Evolutionary Perspectives on Human Behavior*. Oxford University Press, Oxford. Chapter 1, Sense and nonsense, pp. 1-26. Chapter 2, A History of evolution and human behavior, pp. 28-68. Chapter 3, Human Sociobiology, pp.69-108.

Hrdy, S. B.

1992 Fitness Tradeoffs in the History and Evolution of Delegated Mothering with Special Reference to Wet-Nursing, Abandonment, and Infanticide. *Ethology and Sociobiology* 13(5/6):409-444.

Eric Alden Smith and S. Abigail Smith

1994 Inuit Sex-Ratio Variation: Population Control, Ethnographic Error, or Parental Manipulation? *Current Anthropology* 35(5): 595-624

Recommended:

Dunnell, Robert C.

1980 Evolutionary theory and archaeology. *Advances in Archaeological Method and Theory* 3:35-99.

4.[2.2] Evolutionary (Behavioral) Ecology

Laland, Kevin N. and Gillian Brown

2002 *Sense and Nonsense: Evolutionary Perspectives on Human Behavior*. Oxford University Press, Oxford. Chapter 4, Human Behavioral Ecology, pp.109-151.

Smith, Eric A. and Bruce Winterhalder

1992 Natural Selection and Decision making: some fundamental principles. In *Evolutionary Ecology and Human Behavior*, edited by Eric Alden Smith and Bruce Winterhalder. pp. 25-60. Aldine, New York.

Hawkes, Kristen, Hilliard Kaplan and James O'Connell

1982 Why hunters gather: Optimal foraging and the Ache of eastern Paraguay. *American Ethnologist* 9: 379-398.

Recommended:

Winterhalder, Bruce

2002 Models. In *Darwin and Archaeology: A Handbook of Key Concepts*, edited by J.P. Hart and J.E. Terrell, pp. 201-223. Bergin & Garvey, Westport, Connecticut.

Bird, Douglas and James O'Connell

2006 Behavioral ecology and archaeology. *Journal of Archaeological Research* 14:143-188

Winterhalder, B., and E. A. Smith.

2000 Analyzing adaptive strategies: Human behavioral ecology at twenty-five. *Evolutionary Anthropology* 9: 51-72.

5.[2.9] Evolutionary psychology

Laland, Kevin N. and Gillian Brown

2002 *Sense and Nonsense: Evolutionary Perspectives on Human Behavior*. Oxford University Press, Oxford. Chapter 5, Evolutionary Psychology, pp.153-196.

Daly, M. and M.I. Wilson

1999 Human evolutionary psychology and animal behavior. *Animal Behavior* 57:509-519.

Smith, E.A., M. Borgerhoff-Mulder and K. Hill

2000 Evolutionary analyses of human behavior: a commentary on Daly and Wilson. *Animal Behavior* 60:F21-F26.

Cashdan, Elizabeth

2008 Waist to hip Ratio across Cultures: Trade Offs between Androgen and Estrogen Dependent Traits. *Current Anthropology* 49(6):1099-1107.

Recommended:

Symons, D.

1989 A Critique of Darwinian Anthropology. *Ethology and Sociobiology* 10 (1-3):131-144.

Tooby, John and Leda Cosmides

1992 The psychological foundation of culture. In *The Adapted Mind*, edited by Jerome H. Barkow, Leda Cosmides, and John Tooby, pp. 19-137. Oxford University Press, New York..

Smith, Eric Alden, Monique Borgerhoff Mulder, and Kim Hill

2001 Controversies in the evolutionary social sciences: a guide for the perplexed. *Trends in Ecology and Evolution* 16:128-135.

6.[2.16] Dual inheritance: How did culture evolve?

Richerson, Peter and Robert Boyd

2005 *Not by Genes Alone: how Culture Transformed Human Evolution*. University of Chicago Press, Chicago. Chapter 1, Culture is essential. Chapter 2, Culture exists. Chapter 3, Culture Evolves. Chapter 4, Culture is an Adaptation. Pp. 1-147.

Recommended:

Tomasello, Michael, Ann C. Kruger, and Hillary H. Ratner

1993 Cultural Learning. *Behavioral and Brain Sciences* 16:495-511

Henrich, Joseph and Richard McElreath

2003 The evolution of cultural evolution. *Evolutionary Anthropology* 12:123-135

Alvard, Micheal S.

2003 The adaptive nature of culture. *Evolutionary Anthropology* 12:123-135

Tomasello, M. Carpenter, M. Call, J. Behne, T. Moll, H.

2005 Understanding and sharing intentions: The origin of cultural cognition
Behavioral and Brain Sciences 28(5): 675-690

7.[2.23] Dual inheritance: Gene-Culture Coevolution.

Richerson, Peter and Robert Boyd

2005 *Not by Genes Alone: how Culture Transformed Human Evolution*. University of Chicago Press, Chicago. Chapter 5, Culture is maladaptive. Chapter 6, Genes and Culture Coevolve. Chapter 7, Noting about culture makes sense except in the light of evolution. pp 147-258.

Recommended:

Matteo Mamei

2008 Understanding culture: a commentary on Richerson and Boyd's Not By Genes Alone. *Biology and Philosophy* 23(2): 269-281.

Dan Sperber and Nicolas Claidière

2008 Defining and explaining culture (comments on Richerson and Boyd, Not by genes alone) *Biology and Philosophy* 23(2):283-292

Stephen Shennan

2008 Not by Genes Alone: How Culture Transformed Human Evolution, by Peter J. Richerson and Robert Boyd. *Biology and Philosophy* 23(2): 293-299

[3.2] Spring Vacation

8.[3.9] Intensification and Agriculture

Winterhalder, B., and C. Goland.

1997 An evolutionary ecology perspective on diet choice, risk, and plant domestication. In *People, Plants, and Landscapes: Studies in Paleoethnobotany*. K.J. Gremillion, ed. Pp. 123-160. Tuscaloosa, AL: U. of Alabama Press.

Stiner, M. C., Munro, N. D.

2002 Approaches to Prehistoric Diet Breadth, Demography, and Prey Ranking Systems in Time and Space. *Journal of Archaeological Method and Theory* 9: 181-214.

Barlow, K. R.

2002 Predicting maize agriculture among the Fremont: An economic comparison of farming and foraging in the American Southwest. *American Antiquity* 67: 65-88.

Recommended:

Shennan, Stephen

2008 Population Processes and Their Consequences in Early Neolithic Central Europe. In *The Neolithic Demographic Transition and its Consequences*, edited by Jean-Pierre Bocquet-Appel and Ofer Bar-Yosef, pp.315-329. Springer, New York.

Broughton, Jack M.

1994 Late Holocene resource intensification in the Sacramento Valley, California: the vertebrate evidence. *Journal of Archaeological Science* 21:501-514

Cannon, M. D.

2000 Large mammal relative abundance in Pithouse and Pueblo period archaeofaunas from southwestern New Mexico: Resource depression in the Mimbres-Mogollon? *Journal of Anthropological Archaeology* 19: 317–347.

Nagaoka, L.

2002 Subsistence strategies and early human population history: an evolutionary ecological perspective. *World Archaeology* 34(1): 84-102.

9.[3.16] Life-History Strategies

Hill, Kim and Hilliard Kaplan

1999 Life history traits in humans: theory and empirical studies. *Annual Review of Anthropology* 28:397-430.

Hawkes, K., O'Connell, J. F., and Blurton Jones, N. G.

1997 Hadza women's time allocation, offspring provisioning, and the evolution of post-menopausal life spans. *Current Anthropology* 38: 551–578.

Mace, Ruth

2000 Evolutionary ecology of human life history. *Animal Behavior* 59:1-10.

Recommended:

Hawkes, K.

2003 Grandmothers and the evolution of human longevity. *American Journal of Human Biology* 15: 380–400.

Hawkes, K.

2004 The grandmother effect. *Nature* 428: 128–129.

Kalplan, Hilliard, Kim Hill, Jane Lancaster and Magdalena Hurtado

2000 A theory of human life history evolution. *Evolutionary Anthropology* 9:156-185

Strassman, Beverly I., and B. Gillespie

2002 Life history theory and reproductive success in humans. *Proceedings of the Royal Society of London, Series B* 269: 553-562.

11.[3.23] Costly Signaling

Bliege Bird, Rebecca. and Eric Alden Smith

2005 Signaling theory, strategic interaction, and symbolic capital. *Current Anthropology*.

Hawkes, K. and R. Bliege Bird

2002 Showing off, handicap signaling, and the evolution of men's work. *Evolutionary*

Anthropology **11** (2002), pp. 58–67.

Boone, J. L.

2000 Status signaling, social power, and lineage survival. In Diehl, M.W. (ed.), *Hierarchies in Action: Cui Bono?* Occasional Papers No. 27, Center for Archaeological Investigations, Southern Illinois University, Carbondale, pp. 267–290.

Recommended:

Johnstone, Rufus A.

1997. The evolution of animal signals. In *Behavioural Ecology: An Evolutionary Approach*, edited by Krebs, J. R., and Davies, N. B. pp. 155–178, Blackwell, Oxford.

Neiman, Fraser D.

1997 Conspicuous consumption as wasteful social advertising: a Darwinian perspective on spatial Patterns in Classic Maya terminal monument dates. In *Rediscovering Darwin: Evolutionary Theory and Archaeological Explanation.*, edited by C. Michael Barton and Geoffrey A. Clark, pp.267-290. Archaeological Papers of the American Anthropological Association, 7.

Bliege Bird, Rebecca, Eric Alden Smith, and Douglas W. Bird

2001 The hunting handicap: Costly signaling in male foraging strategies. *Behavioral Ecology and Sociobiology* 50: 9-19.

Smith, Eric. A., Bliege Bird, R.ebecca, and Bird, Douglas W.

2003 The benefits of costly signaling: Meriam turtle hunters and spearfishers. *Behavioral Ecology* 14: 116–126.

10.[3.30] Mating and Parenting

Voland, Eckart

1998 Evolutionary ecology of human reproduction. *Annual Review of Anthropology* 27:347-374.

Gaulin, S. J., and J. S. Boster.

1990. Dowry as female competition. *American Anthropologist* 92:994–1005.

Hrdy, Sarah Blaffer and and Debora Judge

1993 Darwin and the puzzle of primogeniture:and essay on biases in parental investment after death. *Human Nature* 4(1):1-45.

Holden, C. J., R. Sear, and R. Mace.

2003 Matriliney as daughter-biased investment. *Evolution and Human Behavior* 24: 99–112.

Recommended:

Borgerhoff Mulder, Monique

1992 Women's strategies in polygynous marriage: Kipsigis, Datoga, and other Eastn African cases. *Human Nature* 3:45-70.

2003 Spread of cattle led to the loss of matrilineal descent in Africa: A co-evolutionary analysis. *Proceedings of the Royal Society, London*, B 270:2425–33.

Hrdy, Sara Blaffer

- 2005 Evolutionary context of human development: The cooperative breeding hypothesis. In: Attachment and Bonding: A New Synthesis. Dahlem Workshop No. 92. Edited by C. S. Carter, L. Ahnert, K. E. Grossmann, S. B. Hrdy, M. E. Lamb, S. W. Porges, and N. Sachser. MIT Press, Cambridge.

Quinlan, Robert J.

- 2008 Human Pair-Bonds: Evolutionary Functions, Ecological Variation, and Adaptive Development. *Evolutionary Anthropology* 7:227-238

Smith, Eric Alden

- 1998 Is Tibetan Polyandry Adaptive? Methodological and Metatheoretical Analyses. *Human Nature* 9(3): 225-262.

Voland, E., and Beise, J.

- 2002 Opposite effects of maternal and paternal grandmothers on infant survival in prehistoric Krummhorn. *Behavioral Ecology and Sociobiology* 52: 435–443.

12.[4.6] Cooperation

Nowak Martin A.

- 2006 Five Rules for the Evolution of Cooperation. *Science* Vol. 314: 1560-1563.

Wilson, D.S and E.O. Wilson

- 2007 Rethinking the theoretical foundation of sociobiology. Quarterly review of Briology. 82(4):327-348

Smith, Eric A.

- 2003 Human cooperation: perspectives from behavioral ecology. In *Genetic and Cultural Evolution of Cooperation*, edited by P. Hammerstein, pp. 401-427. MIT Press, Cambridge.

Bowles, Samuel

- 2006 Group competition, reproductive leveling, and the evolution of human altruism. *Science* :1569-1572.

Recommended:

Panchanathan, K. and R. Boyd.

- 2003 A Tale of Two Defectors: The Importance of Standing for the Evolution of Indirect Reciprocity. *Journal of Theoretical Biology*, 224:115–126.

Choi, Jung-Kyoo. & Bowles, Samuel

- 2007 The Coevolution of Parochial Altruism and War. *Science* 318: 636–640.

13 [4.13] Religion and Ritual

Boyer, Pascal and Brian Bergstrom

- 2008 Evolutionary Perspectives on Religion. *Annual Review of Anthropology* 37: 111-130.

Sosis, Richard

2006 Religious Behaviors, Badges, and Bans: Signaling Theory and the Evolution of Religion. In: *Where God and Science Meet: How Brain and Evolutionary Studies Alter Our Understanding of Religion, Volume 1: Evolution, Genes, and the Religious Brain*, ed. Patrick McNamara, pp. 61-86, Westport, CT: Praeger Publishers

Wilson, David S.

2005 Testing major evolutionary hypotheses about religion with a random sample. *Human Nature* 16:382-409.

Storm, Ingrid and David S. Wilson

2009 Liberal and Conservative Protestant Denominations as Different Socioecological Strategies. *Human Nature* 20:1-24

Recommended:

Wilson, David S.

2003 *Darwin's Cathedral: Evolution, Religion, and the Nature of Society*. University of Chicago Press, Chicago.

Sosis, Richard, and Candace Alcorta.

2003. Signaling, solidarity, and the sacred: The evolution of religious behavior. *Evolutionary Anthropology* 12: 264-274.

Sosis, Richard, and Eric Bressler

2003 Cooperation and commune longevity: A test of the costly signaling theory of religion. *Cross-Cultural Research* 37: 211-239.

Alcorta, Candace and Richard Sosis

2005 Ritual, Emotion, and Sacred Symbols: The Evolution of Religion as an Adaptive Complex. *Human Nature* 16:323-359.

14. [4.20] Open

15. [4.27] Finale: Poster Session!!