

Curriculum Vitae
Joan B. Silk

BIRTHDATE: 16 December 1953
BIRTHPLACE: Riverside, California
MARITAL STATUS: Married to Robert Boyd, 2 children
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ADDRESS

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EDUCATION

1981 Ph.D. in Anthropology, University of California, Davis
1978 M.A. in Anthropology, University of California, Davis
1975 B.A. with honors in Anthropology, Pitzer College, Claremont Colleges

ACADEMIC HONORS RECEIVED

1993 Fellow, American Anthropological Association
1976-1981 Recipient of the Regents Fellowship, University of California, Davis

ACADEMIC POSITIONS

2005-2006 Visiting Fellow, Madgalen College, Cambridge University
Visiting Scholar, Department of Zoology, Cambridge University
1996-2001 Chair, Department of Anthropology, University of California, Los Angeles
1995- Professor, Department of Anthropology, University of California, Los Angeles
1993-1996 Vice Chair, Department of Anthropology, University of California, Los Angeles

- 1992 Fellow, Zentrum fur Interdisziplinare Forschung, University of Bielefeld, Germany
- 1990-1994 Associate Professor, Department of Anthropology, University of California, Los Angeles
- 1986-1992 Affiliate scientist, California Primate Research Center, University of California, Davis
- 1986-1990 Assistant Professor, Department of Anthropology, University of California, Los Angeles
- 1984-1986 Assistant Professor, Department of Anthropology, Emory University, Atlanta, Georgia
- 1984-1986 Assistant Research Behaviorist, California Primate Research Center, Davis, California
- 1983-1984 Visiting Scholar, Department of Zoology, Duke University, Durham, North Carolina
- 1982-1983 National Research Service Award, National Institute of Mental Health, postdoctoral fellow, Department of Biology, University of Chicago.
- 1981-1982 National Science Foundation postdoctoral fellow, Department of Biology, University of Chicago.

PROFESSIONAL ACTIVITIES

- 2002 Panelist, National Science Foundation Biological Anthropology Section
- 1997-98, 2001 Panelist, National Science Foundation Graduate Research Fellowship Program
- 1994-95 Member, Editorial Board, *The American Naturalist*
- 1993-96, 2002 Panelist, National Science Foundation Biological Anthropology Section
- 1991-present Associate Editor, *Human Nature*
- 1990-95 Associate Editor, *American Journal of Physical Anthropology*
- 1980-81 Book Review Editor, *Human Ecology*

PUBLICATIONS

Silk, J.B., Brosnan, S.F., Vonk, J., Henrich, J., Povinelli, D.J., Richardson, A.F., Lambeth, S.P., Mascaró, J., Schapiro, S.J. 2005. Chimpanzees are indifferent to the welfare of other group members. *Nature* 435: 1357-1359.

Silk, J.B. 2005. The evolution of cooperation in primate groups. In: *Moral Sentiments and Material Interests: On the Foundations of Cooperation in Economic Life* (H. Gintis, S. Bowles, R. Boyd, and E. Fehr eds.), MIT Press, Cambridge, pp. 43-73.

Silk, J.B., Willoughby, E., & Brown, G.R. 2005. Maternal rank and local resource competition do not predict birth sex ratios in wild baboons. *Proceedings of the Royal Society London, Series B* 272: 569-574.

Cheney D.L., Seyfarth, R.M., Fischer, J., Beehner, J., Bergman, T., Johnson, S.E., Kitchen, D.M., Palombit, R.A., Silk, J.B. 2004. Factors affecting reproduction and mortality among baboons in the Okavango Delta, Botswana. *International Journal of Primatology* 25:401-428.

Silk, J.B., Brown, G.R. 2004. Sex ratios in primate groups. In: *Sexual Selection in Primates* (P. Kappeler, C. van Schaik, eds.) Cambridge University Press, pp. 253-265.

Manson, J.H., Navarette, C.D., Silk, J.B., Perry, S. 2004. Time-matched grooming in female primates? New analyses from two species. *Animal Behaviour* 67: 493-500.

Silk, J.B., Alberts, S.C., Altmann, J. 2004. Patterns of coalition formation by adult female baboons in Amboseli, Kenya. *Animal Behaviour* 67: 573-582.

Silk, J.B., Alberts, S.C., Altmann, J. 2003. Social bonds of female baboons enhance infant survival. *Science* 302:1331-1334.

McElreath, R., Clutton-Brock, T.H., Fehr, E., Fessler, D.M.T., Hagen, E.H., Hammerstein, P., Kosfeld, M., Milinski, M., Silk, J.B., Tooby, J., & Wilson, M.I. (2003). The Role of Cognition and Emotion in Cooperation. In: *The Genetic and Cultural Evolution of Cooperation* (P. Hammerstein, ed.), Dahlem Workshop Report 90. Cambridge, MA, The MIT Press, pp. 125-152.

Silk, J.B. 2003. Cooperation without counting: the puzzle of friendship. In: *The Genetic and Cultural Evolution of Cooperation* (P. Hammerstein, ed.), Dahlem Workshop Report 90. Cambridge, MA, The MIT Press, pp. 37-54.

Silk, J.B., Rendall, D., Cheney, D.L., Seyfarth, R.M. 2003. Natal attraction in adult female baboons (*Papio cynocephalus ursinus*) in the Moremi Reserve, Botswana. *Ethology* 109:627-644.

- Buchan, J.C., Alberts, S.C., Silk, J.B., Altmann, J. 2003. True paternal care in a multi-male primate society. *Nature* 425:179-181.
- Silk, J.B. 2002. Practice random acts of aggression and senseless acts of intimidation: the logic of status contests in social groups. *Evolutionary Anthropology* 11:221-225.
- Brown, G.R., Silk, J.B. 2002. Reconsidering the null hypothesis: Is maternal rank associated with birth sex ratios in primate groups? *Proceedings of the National Academy of Sciences* 99(17): 11252-11255.
- Boyd, R., Silk, J.B. 2002. Human Sociobiology. In: *Encyclopedia of Evolution*.
- Silk, J.B. 2002. Using the 'F' word in primatology. *Behavior* 139(2-3): 421-446.
- Silk, J.B. 2002. Introduction to special edition. *Behavior* 139(2-3): 173-175.
- Silk, J.B. guest editor. 2002. What are friends for? The adaptive value of social bonds. *Behavior* 139(2-3).
- Silk, J.B. 2002. The form and function of reconciliation in primates. *Annual Review of Anthropology* 31: 21-44.
- Silk, J.B. 2002. Females, food, family, and friendship. *Evolutionary Anthropology* 11: 85-87.
- Silk, J.B. 2002. Kin selection in primate groups. *International Journal of Primatology* 23(4): 849-875.
- Silk, J.B. 2002. Grunts, girneys, and good intentions: the origins of strategic commitment in nonhuman primates. In: *Commitment: Evolutionary Perspectives* (ed. by R. Nesse), Russell Sage Press, pp. 138-157.
- Silk, J.B. 2001. Bonnet macaques: evolutionary perspectives on females' lives. In: *Model Systems in Behavioral Ecology*, (ed. by L.A. Dugatkin), Princeton University Press, Princeton, N.J., pp. 433-452.
- Silk, J.B. 2001. Primate socioecology. In: *International Encyclopedia of the Social and Behavioral Sciences*, (ed. by N. Smelser and P. Baltes), Elsevier Science, Oxford.
- Silk, J.B. 2001. Ties that bond: the role of kinship in primate societies. In: *New Directions in Anthropological Kinship* (ed. by L. Stone), Rowman and Littlefield, Boulder, CO, pp. 71-92.
- Palombit, R.A., D.L. Cheney, J. Fischer, S. Johnson, D. Rendall, R.M. Seyfarth, and J.B. Silk. 2000. Male infanticide and defense of infants in chacma baboons. In: *Male Infanticide and its*

Implications (ed. by C.P. van Schaik and C.H. Janson), Cambridge University Press, Cambridge, pp. 123-151.

Silk, J.B. 2000. The function of peaceful post-conflict interactions: an alternate view. In: *Natural Conflict Resolution* (ed. by F. Aureli and F.B.M. de Waal), University of California Press, Berkeley, CA, pp 179-181.

Silk, J.B., E. Kaldor, and R. Boyd. 2000. Cheap talk when interests conflict. *Animal Behaviour* 59: 423-432.

Silk, J.B. and Stanford, C.B. 1999. Infanticide article disputed. *Anthropology News* 40: 27-29.

Silk, J.B., D.L. Cheney, and R.M. Seyfarth. 1999. The structure of social relationships among female savannah baboons in Moremi Reserve, Botswana. *Behaviour* 136: 679-703.

Silk, J.B. 1999. Male bonnet macaques use information about third party rank relationships to recruit allies. *Animal Behaviour* 58: 45-51.

Silk, J.B. 1999. Why are infants so attractive to others? The form and function of infant handling in bonnet macaques. *Animal Behaviour* 57:1021-1032.

Frantzen, M.A.J., Silk, J.B., Ferguson, J.W.H., Wayne, R.K., and Kohn, M.H. 1998. Empirical evaluation of preservation methods for fecal DNA. *Molecular Ecology* 7:1423-1428.

Silk, J.B. 1998. Making amends: adaptive perspectives on conflict remediation in monkeys, apes, and humans. *Human Nature* 9:341-368.

Silk, J.B. 1997. The function of peaceful post-conflict contacts among primates. *Primates* 38: 265-279.

Kummer, H., Daston, L., Gigerenzer, G. & Silk, J.B. 1997. The social intelligence hypothesis. In: *Human by Nature* (ed. by P. Weingart, S.D. Mitchell, P.J. Richerson, and S. Maasen). Erlbaum Press, pp. 157-179.

Levine, N.E. & Silk, J.B. 1997. Why polyandry fails: sources of instability in polyandrous marriages. *Current Anthropology* 38: 375-398.

Boyd, R. & Silk, J.B. 1997, 1999, 2002. *How Humans Evolved*. W.W. Norton Press, New York. (excerpts from Chapter 9 reprinted in *Research Frontiers in Anthropology: Advances in Archaeology and Physical Anthropology*, ed. by C. Ember and M. Ember, Prentice Hall.)

Silk, J.B. 1996. Why do primates reconcile? *Evolutionary Anthropology* 5: 39-42.

Silk, J.B., Cheney, D.L., & Seyfarth, R.M. 1996. The form and function of post-conflict interactions among female baboons. *Animal Behaviour* 52:259-268.

Cheney, D.L., Seyfarth, R.M., & Silk, J.B. 1995. The responses of female baboons (*Papio cynocephalus ursinus*) to anomalous social interactions: evidence for causal reasoning? *Journal of Comparative Psychology* 109: 134-141.

Cheney, D.L., Seyfarth, R.M., & Silk, J.B. 1995. The role of grunts in reconciling opponents and facilitating interactions among adult female baboons. *Animal Behaviour* 50:249-257.

Silk, J.B. 1994. Social relationships of male bonnet macaques: male bonding in a matrilineal society. *Behaviour* 130:271-291.

Silk, J.B. 1993. Does participation in coalitions influence dominance relationships among male bonnet macaques? *Behaviour* 126:171-189.

Silk, J.B. 1993. Primatological perspectives on gender hierarchies. In: *Gender Hierarchies* (ed. by B. Miller). Cambridge University Press, Cambridge., pp. 212-235.

Silk, J.B. 1993. The evolution of social conflict among primate females. In: *Primate Social Conflict* (ed. by W.A. Mason and S. Mendoza). SUNY Press, Albany, pp. 49-83.

Silk, JB, Short, J, Roberts, J, & Kemnitz, J. 1993. Gestation Length in Rhesus Macaques (*Macaca mulatta*). *International Journal of Primatology* 14:95-104.

Silk, J.B. 1992. The origins of caregiving behavior. *American Journal of Physical Anthropology* 87: 227-229.

Silk, J.B. 1992. The patterning of intervention among male bonnet macaque: reciprocity, revenge, and loyalty. *Current Anthropology* 33:318-325.

Silk, J.B. 1992. Patterns of intervention in agonistic contests among male bonnet macaques. In: *Coalitions and Alliances in Humans and Other Animals* (ed. by S. Harcourt and F. de Waal). Oxford University Press, Oxford, pp. 215-232.

Silk, J.B. 1991. Mother-infant relationships in bonnet macaques: sources of variation in proximity. *International Journal of Primatology* 12:21-38.

Silk, J.B. 1990. Comment on Turke 1990: Which humans adopt adaptively, and does it matter? *Ethology and Sociobiology* 11: 425-426.

Silk, J.B. 1990. Sources of variation in interbirth intervals among captive bonnet macaques (*Macaca radiata*). *American Journal of Physical Anthropology* 82: 213-230.

Silk, J.B. 1990. Human adoption in evolutionary perspective. *Human Nature* 1:25-52.

- Silk, J.B. 1989. Reproductive synchrony in captive macaques. *American Journal of Primatology* 19: 137-146.
- Silk, J.B. 1988. Maternal investment in captive bonnet macaques (*Macaca radiata*), *The American Naturalist* 132: 1-19.
- Silk, J.B. 1988. Social mechanisms of population regulation in a captive group of bonnet macaques (*Macaca radiata*), *American Journal of Primatology* 14: 111-124.
- Silk, J.B. 1987. Activities and diet of free-ranging pregnant baboons, *Papio cynocephalus*, *International Journal of Primatology* 8: 593- 613.
- Silk, J.B. 1987. Inuit adoption. *Ethos* 15:320-330.
- Silk, J.B. 1987. Correlates of aggression and competition among pregnant baboons. *American Journal of Primatology* 12: 479-495.
- Samuels, A, Silk, JB, & Altmann, J. 1987. Continuity and change in dominance relationships among female baboons. *Animal Behaviour* 35: 785-793.
- Silk, J.B. 1987. Social behavior in evolutionary perspective. In: *Primate Societies*, ed. by B.B. Smuts et al). University of Chicago Press, Chicago, pp. 318-329.
- Silk, J.B. 1987. Adoption and fosterage in human societies: adaptations or enigmas? *Cultural Anthropology* 2:39-49.
- Silk, J.B. 1986. Eating for two: behavioral and environmental correlates of gestation length among free-ranging baboons (*Papio cynocephalus*). *International Journal of Primatology* 7:583-602.
- Silk, JB & Boyd, R. 1984. Response to J. Rushen. *Animal Behaviour* 32:933-934.
- Silk, J.B. 1984. Local resource competition and the evolution of male-biased sex ratios. *Journal of Theoretical Biology* 108: 203-213.
- Samuels, A., Silk, JB, & Rodman, PS. 1984. Changes in the dominance rank and reproductive behavior of male bonnet macaques (*Macaca radiata*). *Animal Behaviour* 32: 994-1003.
- Silk, J.B. 1984. Measurement of the relative importance of individual selection and kin selection in the genus *Macaca*. *Evolution* 38: 553-559.
- Silk, JB & Samuels, A. 1984. Triadic interactions among male *Macaca radiata*: passports and buffers. *American Journal of Primatology* 6: 373-376.

Silk, J.B. 1983. Local resource competition and facultative adjustment of sex ratios in relation to competitive ability. *American Naturalist* 121: 56-66.

Boyd, R & Silk, J.B. 1983. A method of assigning cardinal indices of dominance rank. *Animal Behaviour* 31: 45-58.

Silk, JB & Boyd, R. 1983. Female cooperation, competition, and mate choice in matrilineal macaque groups. In: *Social Behavior of Female Vertebrates* (ed. by S.K. Wasser) Academic Press, New York, p. 315-347.

Silk, J.B. 1982. Altruism among adult female bonnet macaques: explanation and analysis of patterns of grooming and coalition formation. *Behaviour* 79: 162-187.

Silk, J.B. 1981. Social behavior of female *Macaca radiata*: the influence of kinship and rank upon cooperation and competition. Ph.D. thesis, University of California, Davis.

Silk, JB, Samuels, A., & Rodman, PS. 1981. The influence of kinship, rank, and sex upon affiliation and aggression among adult females and immature bonnet macaques (*Macaca radiata*). *Behaviour* 78: 112-137).

Silk, JB, Clark-Wheatley, CB, Rodman, PS, & Samuels, A. 1981. Differential reproductive success and facultative adjustment of sex ratios among captive female bonnet macaques (*Macaca radiata*). *Animal Behaviour* 29: 1106-1120.

Silk, JB, Samuels, A, & Rodman, PS. 1981. Hierarchical organization of female *Macaca radiata*. *Primates* 22: 84-95.

Silk, J.B. 1980. Adoption and kinship in Oceania. *American Anthropologist* 82: 799-820.

Silk, J.B. 1980. Kidnapping and female competition in captive bonnet macaques. *Primates* 21: 100-110.

Silk, J.B. 1979. Feeding, foraging, and food sharing of immature chimpanzees. *Folia Primatologica* 31: 123-142.

Silk, J.B. 1978. Patterns of food sharing among mother and infant chimpanzees at Gombe National Park, Tanzania. *Folia Primatologica* 29: 129- 141.

BOOK REVIEWS

Silk, J.B. 2001. Review of *Tree of Origin: What Primate Behavior Can Tell Us about Human Social Evolution* edited by F.B.M. de Waal. *Evolution and Human Behavior* 22(6): 443-448.

Silk, J.B. 2000. Review of *On the Move: How and Why Animals Travel in Groups* edited by S. Boinski and P.A. Garber. *Ethology* 106: 1045-1048.

Silk, J.B. 1988. Review of *Apes of the World* by R.H. Tuttle. *International Journal of Primatology* 9: 385-387.

Silk, J.B. 1988. Review of *Human Birth* by W.R. Trevathan. *American Scientist* 76(5): 424.

Silk, J.B. 1986. Review of *Primate Sociobiology* by J.P. Gray. *American Journal of Physical Anthropology* 71: 21-122.

Silk, J.B. 1985. Review of *Reproductive Decisions*, by R.I.M. Dunbar. *Science* 229: 961-962.

Silk, J.B. 1985. Review of *Too Many Women? The Sex Ratio Question* by M. Guttentag and P. Secord. *Ethology and Sociobiology* 6: 4-68.

Silk, J.B. 1984. Review of *Primate Social Relationships*, edited by R.A. Hinde. *Science* 224: 981-982.

Silk, J.B. 1984. Review of *Child Abuse: the Nonhuman Primate Data*, edited by M. Reite and N.G. Caine. *American Anthropologist* 86: 1034-1036.

Silk, J.B. 1982. Review of *The Woman that Never Evolved*, by S.B. Hrdy. *Ethology and Sociobiology* 5: 53-55

INVITED TALKS AND CONFERENCES (2001-2005)

What are friends for? The adaptive value of social bonds. For CRIG, Department of Psychology, UCLA, Spring 2001.

What are friends for? The adaptive value of social bonds in primates. Southern California Primate Research Network, San Diego, Spring 2001.

The evolution of friendship in primates. Adaptive Behavior and Cognition Group, Max Planck Institute for Human Development, November 2001.

Too many males: Sex ratios and sexual selection in primates. Third Göttinger Frielandtage, Sexual Selection in Primates: Causes, mechanisms, and consequences. 11-15 December, 2001.

"Friendship" in nonhuman primates: comparisons, connections, and contrasts. Conference on Kinship and Friendship, University of Bielefeld, Bielefeld, Germany. 4-6 February 2002.

Allies and Friends: The role of alliances in the lives of female baboons. Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, 13 May 2002

Allies and Friends: The role of alliances in the lives of female baboons. Institute for Theoretical Biology, Humboldt University, Berlin, Germany, 21 May 2002

Kinship, altruism, and friendship in nonhuman primates. Wissenschaftskolleg zu Berlin, Berlin, Germany, 23 May 2002.

Member of the Program Advisory Committee and participant in 90th Dahlem Workshop on Genetic and Cultural Evolution of Cooperation, Berlin Germany, 23-28 June 2002.

Allies and Friends: the Role of Coalitions in the lives of female baboons. German Primate Center, Göttingen, Germany, 10 July 2002.

Cooperation, Aid, and Friendship in Primate Groups. Presented to the Behavior, Evolution, and Culture group, UCLA, January 2002.

Coalitionary Aggression in Baboon Groups: Conventional Wisdom Meets the Real World, Presented to the Evolution, Mind, and Behavior Conference, UC Santa Barbara, 4 May 2003.

Competition, conflict, and cooperation in primate groups. For Presidential Symposium entitled "Cooperation and Conflict: Current Studies in Evolutionary Anthropology", annual meeting of the American Anthropological Association, Chicago, 19-23 November 2003.

Baboon sex ratios: testing the van Schaik and Hrdy model. Invited talk at the annual meeting of the Primate Society of Great Britain, London, 3 December 2003.

Practicing Hamilton's Rule: Kinship and Cooperation in Primate Groups. Fourth Göttinger Frielandtage, Cooperation in Primates: Causes, mechanisms, and consequences. 9-13 December, 2003.

Sociality among female baboons: Studying form, function and evolutionary processes in the field. Department of Anthropology, University of Michigan, 12 March 2004.

The Adaptive Value of Social Bonds. Plenary address delivered at the annual meeting of the American Society of Primatology, Madison, WI, 9 June 2004.

The adaptive value of social bonds and Sex Ratios in Primate Groups: Making Models and Testing Predictions. Haverford College, November 2004.

The Adaptive Value of Social Bonds: Linking Theory to Evidence. Department of Psychology, University of Pennsylvania, November 2004.

Sex ratio adjustment in primates: Nice theories meet ugly facts. Behavioral Ecology Research Group, University of Stony Brook, 18 March 2005.

Discussant, Symposium on Empathy and Fairness, Novartis Foundation, London, October 2005.

The origins of prosocial sentiments.

Department of Anthropology, University of College London, October 2005

Department of Biological Anthropology, Cambridge University, October 2005

The Royal Institution and the Physiological Society, London, October 2005

Sub-Department of Animal Behaviour, Cambridge University, November 2005