

## MATT CARTMILL — CURRICULUM VITAE

Date Revised: February 10, 2009

**Name:** Matt Cartmill

**Primary Academic Appointment:** Professor

**Present Academic Rank and Title:** Professor of Anthropology

**Citizen of:** USA

**Contact Information:**

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<b>Education:</b>	<u>Place</u>	<u>Degree</u>	<u>Date</u>	<u>Thesis Title</u>
High School	Chadwick School Rolling Hills, CA		1960	
College	Pomona College Claremont, CA	B.A.	1964	
Graduate School	Univ. of Chicago Chicago, IL	M.A.	1966	"Adaptive significance of social patterns in savanna mammals."
	Univ. of Chicago Chicago, IL	Ph.D.	1970	"The orbits of arboreal mammals: a reassess- ment of the arboreal theory of primate evolution."

## **Professional Employment and Academic Career:**

1963	High School Teacher, Chadwick School, Rolling Hills, California.
1964	Teaching Assistant, Pomona College. (Human and Cultural Evolution)
1967-1969	Teaching Assistant, University of Chicago, 1967, 1968, 1969. (Human Evolution; Problems and Methods in Prehistory; Primate Evolution)
1969-1970	Associate in Anatomy, Duke University.
1970-1972	Assistant Professor, Duke University, Department of Anatomy.
1972-1974	Assistant Professor, Duke University, Departments of Anatomy and Anthropology.
1974-1981	Associate Professor, Duke University, Departments of Anatomy and Anthropology.
1981-1983	Professor, Duke University, Department of Anatomy, and Associate Professor, Department of Anthropology.
1983-1988	Professor, Duke University, Departments of Anatomy and Anthropology.
1988-2008	Professor, Duke University, Department of Biological Anthropology and Anatomy.
2008	Professor, Duke University, Department of Evolutionary Anthropology.
2008-	Professor, Boston University, Department of Anthropology, and Research Professor, Duke University, Department of Evolutionary Anthropology.

## Courses Taught at Duke:

- Gross Anatomy (Duke University School of Medicine)
- The Human Body
- The Normal Body
- Anatomy of the Limbs
- Anatomy of the Trunk
- General Anthropology
- Introduction to Biological Anthropology
- Human Origins
- Comparative Primate Anatomy
- Functional and Evolutionary Morphology of Primates
- Human Evolution
- The Primate Fossil Record
- Animal Rights
- Evolution and Humankind (FOCUS Interdisciplinary Course)
- The Animal-Human Boundary (FOCUS and Liberal Studies seminars)
- The Scaffolding of Learning (Liberal Studies seminar)
- Moving Drawings: The History, Theory, Esthetics, and Technique of Drawn Film (Liberal Studies seminar)
- Seminars and tutorials in physical anthropology, human anatomy, theoretical systematics, mammalian evolutionary biology, philosophy of science, and history of ideas

Courses Taught at Boston University:

- Human Behavioral Biology and Evolution
- Primate Evolution and Anatomy
- Human Origins
- The Biological and Historical Past

Field Work:

1961. Excavation of Pre-Classic, Classic and Toltec dwelling sites, Teotihuacan, Mexico, under Dr. W.T. Sanders, Pennsylvania State University.
1965. Field study of baboons and other savanna mammals, Rhodesia, under Dr. R.H. Tuttle, University of Chicago.

## Publications:

### 1. Refereed Journals:

Cartmill, M. 1967. The early Pleistocene mammalian microfaunas of sub-Saharan Africa and their ecological significance. Quaternaria 9: 169-198.

Cartmill, M. 1971. Ethmoid component in the orbit of primates. Nature 232: 566-567.

Cartmill, M. 1974. Rethinking primate origins. Science 184:436-443.

Reprinted in R.L. Ciochon and J.G. Fleagle (eds.), Primate Evolution and Human Origins, Benjamin Cummings, Menlo Park, 1985, pp. 14-21, and in M.E. Stephens and J.D. Paterson (eds.), The Order Primates: An Introduction, Kendall/Hunt Publishing Co., Dubuque, 1991.

Kay, R.F., and M. Cartmill. 1974. Skull of Palaechthon nacimienti. Nature 252: 37-38.

Cartmill, M., and W.L. Hylander. 1974. On the production, marketing and utilization of the Wenner-Gren casts. Yearbook of Physical Anthropology 17: 219-232.

Cartmill, M. 1975. Primate evolution -- were traits selected for arboreal locomotion or visually directed predation? Science 187: 456.

Cartmill, M. 1975. Primate evolution: analysis of trends. Science 89: 229-230.

Cartmill, M. 1975. Extinction of lineages: irrelevance of ecological hypotheses. American Anthropologist 77: 610-611.

Cartmill, M. 1975. On racism and terminology. Current Anthropology 16: 670.

Cartmill, M. 1976. Welsh vowel mutation: surface phonology and underlying forms. Linguistic Inquiry 7: 675-677.

Kay, R.F., and M. Cartmill. 1977. Cranial morphology and adaptations of Palaechthon nacimienti and other Paromomyidae (Plesiadapoidea, ?Primates), with a description of a new genus and species. Journal of Human Evolution 6:19-53.

Reprinted in R.L. Ciochon and J.G. Fleagle (eds.), Primate Evolution and Human Origins, Benjamin Cummings, Menlo Park, 1985, pp. 24-40.

Cartmill, M., and K. Milton. 1977. The lorisiform wrist joint and the evolution of "brachiating" adaptations in the Hominoidea. American Journal of Physical Anthropology 47: 249-272.

Cartmill, M., and P.D. Gingerich. 1978. An ethmoid exposure (os planum) in the orbit of Indri indri (Primates, Lemuriformes). American Journal of Physical Anthropology 48: 535-538.

Cartmill, M. 1978. The orbital mosaic in prosimians and the use of variable traits in systematics. Folia primatologica 30: 89-114.

- Cartmill, M. 1979. The volar skin of primates: its frictional characteristics and their functional significance. American Journal of Physical Anthropology 50: 497-510.
- Cartmill, M. 1980. John Jones's pregnancy: some comments on the statistical-relevance model of scientific explanation. American Anthropologist 82: 382-385.
- Cartmill, M. 1981. Hypothesis testing and phylogenetic reconstruction. Zeitschrift für zoologische Systematik und Evolutionsforschung 19: 73-96.
- Cartmill, M., R.D.E. MacPhee, and E.L. Simons. 1981. Anatomy of the temporal bone in early anthropoids, with remarks on the problem of anthropoid origins. American Journal of Physical Anthropology 56: 3-21.
- Cartmill, M. 1982. Assessing tarsier affinities: is anatomical description phylogenetically neutral? Geobios, mémoire special 6: 279-287.
- Cartmill, M. 1982. T-lymphocyte immunology and hominoid evolution. Science 218: 1145.
- MacPhee, R.D.E., M. Cartmill, and P.D. Gingerich. 1983. New Palaeogene primate basicrania and the definition of the order Primates. Nature 301: 509-511.
- Cartmill, M. 1983. Four legs good, two legs bad: Man's place (if any) in nature. Natural History 92(11): 64-79.
- Cartmill, M. 1984. Innate grammars and the evolutionary presumption. Behavioral and Brain Sciences 7: 191.
- Cartmill, M., D. Pilbeam, and G.L. Isaac. 1986. One hundred years of paleoanthropology. American Scientist 74: 410-420.
- Cartmill, M. 1986. Reply to E.P. Banks. American Scientist 74: 576.
- Cartmill, M. 1988. Why I became a scientist. American Scientist 76: 452.
- Reprinted in K. Arnold, B. O'Sullivan, R. W. Scheifler, J. Waldo, and A. Wollrath, The Jini Specification, Addison-Wesley, Reading, Mass., 1999, p. 33.
- MacPhee, R.D.E., M. Cartmill, and K.D. Rose. 1989. Craniodental morphology and relationships of the supposed Eocene dermopteran *Plagiomene* (Mammalia). Journal of Vertebrate Paleontology 9: 329-349.
- Cartmill, M. 1990. Human uniqueness and theoretical content in paleoanthropology. International Journal of Primatology 11: 173-192.
- Cartmill, M. 1991. The changing image of the hunt in Western thought. Perspectives in Ethology 9: 237-260.
- Cartmill, M. 1992. New views on primate origins. Evolutionary Anthropology 1: 105-111.

- Cartmill, M. 1994. A critique of homology as a morphological concept. American Journal of Physical Anthropology 94: 115-123.
- Cartmill, M. 1994. Animal rights: A reply to Howard. Journal of Mammalogy 75: 1080-1082.
- Cartmill, M. 1994. Reinventing anthropology. Yearbook of Physical Anthropology 37: 1-9.
- Cartmill, M. 1995. Hunting and humanity in Western thought. Social Research 62: 773-786.
- Reprinted in A. Mack (ed.), Humans and Other Animals, Ohio State University Press, Columbus, 1999, pp. 365-378; L. Kalof and A. Fitzgerald, The Animals Reader: The Essential Classic and Contemporary Writings, Berg, Oxford, 2007, pp. 237-244.
- Yoder, A.D., Cartmill, M., Ruvolo, M., Smith, K., and Vilgalys, R. 1996. Ancient single origin for Malagasy primates. Proceedings of the U. S. National Academy of Sciences 93: 5122-5126.
- Kay, R. F., M. Cartmill, and M. Balow. 1998. The hypoglossal canal and the origin of human vocal behavior. Proceedings of the U. S. National Academy of Sciences 95: 5417-5419.
- Cartmill, M. 1999. The status of the race concept in physical anthropology. American Anthropologist 100: 651-660.
- Cartmill, M. 1999. Revolution, evolution, and Kuhn: a response to Chamberlain and Hartwig. Evolutionary Anthropology 8: 45-47.
- Cartmill, M. 2000. Animal consciousness: some philosophical, methodological, and evolutionary problems. American Zoologist 40: 835-846.
- Cartmill, M. 2002. Paleoanthropology — science or mythological charter? Journal of Anthropological Research 58: 183-201.
- Cartmill, M., P. Lemelin, and D. Schmitt. 2002. Support polygons and symmetrical gaits in mammals. Zoological Journal of the Linnean Society 136: 401-420.
- Cartmill, M. 2002. Historical explanation and the concept of progress in primatology. Evolutionary Anthropology, supplement 1: 12-15.
- Cartmill, M., and K. Brown. 2003. Surveying the race concept: a reply to Lieberman, Kirk, and Littlefield. American Anthropologist 105: 114-115.
- Lemelin, P., D. Schmitt, and M. Cartmill. 2003. Footfall patterns and interlimb coordination in opossums (Family Didelphidae): evidence for the evolution of diagonal-sequence gaits in primates. Journal of Zoology 260: 423-429.

Kirk, E. C., M. Cartmill, R. F. Kay, and P. Lemelin. 2003. Comment on "Grasping primate origins." Science 300: 741.

Jungers, W. L., A. A. Pokempner, R. F. Kay, and M. Cartmill. 2003. Hypoglossal canal size in living hominoids and the evolution of human speech. Human Biology 75: 473-484.

Schmitt, D., M. Cartmill, T. M. Griffin, J. B. Hanna, and P. Lemelin. 2006. Adaptive value of ambling gaits in primates and other mammals. Journal of Experimental Biology 209: 2042-2049.

Cartmill, M., P. Lemelin, and D. Schmitt. 2007. Understanding the adaptive value of diagonal-sequence gaits in primates: a comment on Shapiro and Raichlen, 2005. American Journal of Physical Anthropology 133: 822-825.

## 2. Non-refereed Publications:

Cartmill, M., K. Brown, R. Eaglen, and D. E. Anderson. 1979. Hand-rearing twin ruffed lemurs (Lemur variegatus) at the Duke University Primate Center. International Zoo Yearbook 19: 258-261.

Cartmill, M. 1991. Science matters in the liberal arts. Duke Faculty Newsletter (November), pp. 1-9.

Cartmill, M. 1993. Science and liberal education: A reply to Barbara Herrnstein Smith. Duke Faculty Newsletter (February), pp. 1-3.

Cartmill, M. 1993. The Bambi syndrome. Natural History (June), pp. 6-12.

Reprinted in G. Gong and S. Dragga (eds.), A Reader's Repertoire, HarperCollins, New York, 1996.

Cartmill, M. 1993. Reply to Campbell. Natural History (September), p. 3.

Cartmill, M. 1997. The third man. Discover (September), pp. 56-62.

Reprinted in E. Angeloni (ed.), Physical Anthropology 98/99, McGraw-Hill, Guilford, Connecticut, 1998, pp. 166-169; M. A. Park (ed.), Biological Anthropology: An Introductory Reader, Mayfield, London, 2000, pp. 183-187.

Cartmill, M. 1998. Animal minds, animal dreams. Natural History (March), pp. 16-20.

Cartmill, M. 1998. Oppressed by evolution. Discover (March), pp. 78-83.

Excerpted in Duke Magazine (July-August, 2000), p. 5. Reprinted in: L. Polnac (ed.), Purpose, Pattern, and Process, Kendall-Hunt Publ. Co., Dubuque, 5th edition (1999); 6th edition, 2002, pp. 389-397; D. Longfellow et al. (eds.), Mapping the Modern Mind, ProQuest, 2005, pp. 56-60.

Cartmill, M. 1998. The gift of gab. Discover (November), pp. 56-64.

Reprinted in: M. A. Park (ed.), Biological Anthropology: An Introductory Reader, Mayfield, London, 2000, pp. 132-136; E. Angeloni (ed.), Physical Anthropology 00/01, Dushkin/McGraw-Hill, Guilford, Connecticut, 2000, pp. 139-143; E. Angeloni (ed.), Physical Anthropology 01/02, Dushkin/McGraw-Hill, Guilford, Connecticut, 2001, pp. 136-140; E. Angeloni (ed.), Physical Anthropology 02/03, McGraw-Hill/Dushkin, Guilford, Connecticut, 2002, pp. 154-158; E. Angeloni (ed.), Physical Anthropology 03/04, McGraw-Hill/Dushkin, Guilford, Connecticut, 2002, pp. 156-160; E. Angeloni (ed.), Physical Anthropology 04/05, McGraw-Hill/Dushkin, Guilford, Connecticut, 2004, pp. 149-153; S. M. Hens (ed.), Supplemental Readings for Physical Anthropology, Kendall/Hunt, Dubuque, 2004, pp. 193-198; E. Angeloni (ed.), Physical Anthropology 06/07, McGraw-Hill/Dushkin, Guilford, Connecticut, 2006, pp. 138-142; E. Angeloni (ed.), Physical Anthropology 07/08, McGraw-Hill/Dushkin, Guilford, Connecticut, 2007, pp. 148-152.

Cartmill, M. 1998. Polly want a big hypoglossal nerve? (Reply to R. A. Koster) Discover (December), p. 16.

Cartmill, M. 1999. Language and human evolution. AnthroQuest 8: 1-4.

Cartmill, M. 2000. Understanding the evil that men do. Chronicle of Higher Education, June 2: B4-B6.

Cartmill, M. 2000. The ascent of words. Pomona College Magazine, Summer 2000: 14-18.

Cartmill, M. 2001. Replies to correspondents. Phi Beta Kappa Key Reporter, 66 (2) (Winter 2001): 11.

### **3. Chapters in Books:**

Cartmill, M. 1972. Arboreal adaptations and the origin of the order Primates. In: Tuttle, R.H. (ed.), The Functional and Evolutionary Biology of Primates, Aldine-Atherton, Chicago, pp. 97-122.

Cartmill, M. 1974. Pads and claws in arboreal locomotion. In: Jenkins, F.A., Jr. (ed.), Primate Locomotion, Academic Press, New York, pp. 45-83.

Cartmill, M. 1974. Daubentonia, Dactylopsila, woodpeckers, and klinorhynch. In: Martin, R.D., G.A. Doyle, and A.C. Walker (eds.), Prosimian Biology, Duckworth, London, pp. 655-670.

Cartmill, M. 1975. Strepsirhine basicranial structures and the affinities of the Cheirogaleidae. In: Luckett, W.P. and Szalay, F.S. (eds.), Phylogeny of the Primates, Plenum, New York, pp. 313-354.

Cartmill, M. 1978. Phylogeny of Tarsius: Introduction. In: D.J. Chivers and K.A. Joysey (eds.), Recent Advances in Primatology, Academic Press, London, vol. 3, pp. 193-194.

Cartmill, M., and R. F. Kay. 1978. Craniodental morphology, tarsier affinities, and primate suborders. In: D.J. Chivers and K.A. Joysey (eds.), Recent Advances in Primatology, Academic Press, London, vol. 3, pp. 205-214.

- Cartmill, M. (ed.). 1978. Methods of phylogenetic inference. In: D.J. Chivers and K.A. Joysey (eds.), Recent Advances in Primatology, Academic Press, London, vol. 3, pp. 299-305.
- Cartmill, M., and R.D.E. MacPhee. 1980. Tupaiid affinities: the evidence of the carotid arteries and cranial skeleton. In: W.P. Luckett (ed.), Comparative Biology and Evolutionary Relationships of Tree Shrews, Plenum, New York, pp. 95-132.
- Cartmill, M. 1980. Morphology, function and evolution of the anthropoid postorbital septum. In: A.B. Chiarelli and R.L. Ciochon (eds.), Evolutionary Biology of the New World Monkeys and Continental Drift, Plenum, New York, pp. 243-274.
- Cartmill, M. 1982. Basic primatology and prosimian evolution. In: F. Spencer (ed.), A History of American Physical Anthropology 1930-1980, Academic Press, New York, pp. 147-186.
- Cartmill, M. 1985. Climbing. In: M. Hildebrand, D. Bramble, K. Liem, and D. Wake (eds.), Functional Vertebrate Morphology, Harvard University Press, Cambridge, pp. 73-88.
- MacPhee, R.D.E., and M. Cartmill. 1986. Basicranial structures and primate systematics. In: D.R. Swindler (ed.), Comparative Primate Biology. Vol. I. Systematics, Evolution, and Anatomy, Alan R. Liss, New York, pp. 219-275.
- Cartmill, M. 1992. Non-human primates. In: S. Jones, R.D. Martin, D.R. Pilbeam, and S. Burney (eds.), The Cambridge Encyclopedia of Human Evolution, Cambridge University Press, Cambridge, pp. 24-32.
- Cartmill, M. 1994. Anatomy, antinomies, and the problem of anthropoid origins. In: J. F. Fleagle and R. F. Kay (eds.), Anthropoid Origins, Plenum, New York, pp. 549-566.
- Cartmill, M., and R. R. Schmidt. 1996. Anatomy and pathology. In: J. S. Goldberg (ed.), USMLE Step 1 Review: The Study Guide, Sage Publications, Thousand Oaks, California, pp. 1-64.
- Cartmill, M. 1997. Hunting hypothesis of human origins. In: F. Spencer (ed.), History of Anthropology: An Encyclopedia, Garland, New York, pp. 508-512.
- Cartmill, M. 1997. Predation, feeding strategies, and primate origins. In: N. Boaz and A. J. Almquist (eds.), Biological Anthropology: A Synthetic Approach to Human Evolution, Prentice-Hall, Upper Saddle River, New Jersey, pp. 192-193.
- Cartmill, M. 1997. Explaining primate origins. In: C. R. Ember and M. Ember (eds.), Research Frontiers in Anthropology, Prentice-Hall, Englewood Cliffs, New Jersey, pp. 31-46.

- Cartmill, M. 1998. History of ideas surrounding hunting. In: M. Bekoff and C. Meaney (eds.), Encyclopedia of Animal Rights and Animal Welfare, Greenwood Press, Westport, Connecticut, pp. 197-199.
- Cartmill, M. 2001. Taxonomic revolutions and the animal-human boundary. In: R. Corbey & W. Roebroeks (eds.), Studying Human Origins: Disciplinary History and Epistemology, Amsterdam University Press, Amsterdam, pp. 97-106.
- Cartmill, M. 2001. The probability of human origins. In: Matthews, C. N., Tucker, M. E., and Hefner, P. (eds.), When Worlds Converge: What Science and Religion Tell Us about the Story of the Universe and Our Place in It, Open Court, Chicago, pp. 73-97.
- Cartmill, M. 2004. Charles Oxnard: an appreciation. In: F. Anapol, R. German, and N. Jablonski (eds.), Shaping Primate Evolution. Cambridge University Press, Cambridge, pp. 1-7.
- Cartmill, M., P. Lemelin, and D. Schmitt. 2006. Primate gaits and primate origins. In: Ravosa, M. J., and Dagosto, M. (eds.), Primate Origins: Adaptations and Evolution. Springer, New York, pp. 403-436.
- Cartmill, M. 2006. Is there a biological basis for morality? In: Ellison, G. T. H. and Goodman, A. (eds.), The Nature of Difference: Science, Society, and Human Biology. Taylor & Francis, London, pp. 3-16.
- Brown, K., and M. Cartmill. In press. 75 years of the annual meetings, 1930-2004. In: Little, M. (ed.), Physical Anthropology in America: A 75-Year Retrospective. Lexington Books, Lanham, Md.
- Cartmill, M. In press. Primate classification and diversity. In: Platt, M. L. and Ghazanfar, A. A. (eds.), Primate Neuroethology. Oxford University Press.

#### 4. Books:

- Cartmill, M., W. L. Hylander, and J. Shafland. 1987. Human Structure. Harvard University Press, Cambridge. xv, 448 pp.
- Cartmill, M. 1993a. A View to a Death in the Morning: Hunting and Nature Through History. Harvard University Press, Cambridge; xiv, 331 pp.
- Cartmill, M. 1993b. (German translation of 1993a) Tod im Morgengrauen: Das Verhältnis des Menschen zu Natur und Jagd ("Death in the Morning Twilight: The Relationship of Man to Nature and Hunting"). Artemis & Winkler, Zürich; 385 pp.
- Cartmill, M. 1995a. (Japanese translation, with new preface by the author, of 1993a) Hito wa naze korosu ka? ("Why Do People Kill? The Hunting Hypothesis and Human Origins"). Shinyosha Publishers, Tokyo; 480 pp.

Cartmill, M. 1995b. (Paperback reprint of 1993b) Das Bambi-Syndrom: Jagdleidenschaft und Misanthropie in der Kulturgeschichte ("The Bambi Syndrome: Hunting Passion and Misanthropy in Cultural History"). Rohwohlt, Hamburg: 385 pp.

Cartmill, M., and F. H. Smith. 2009. The Human Lineage. Wiley-Blackwell, New York: x, 624 pp.

## 5. Other:

### a. Pamphlets.

Cartmill, M. 1975. Primate Origins. Burgess Publishing Co., Minneapolis. 40 pp.

Cartmill, M. 1996. Do Horses Gallop in Their Sleep? Consciousness, Evolution, and the Problem of Animal Minds. Sixty-Sixth James Arthur Lecture on the Evolution of the Human Brain. American Museum of Natural History, New York. 24 pp.

Abridged version ("Do Horses Gallop in Their Sleep?") published in Phi Beta Kappa Key Reporter, Autumn 2000 (vol. 66, no. 1, pp. 6-9). Reprinted in The Quest, July-August 2001 (vol. 89, no. 4, pp. 124-131). Reprinted in L. H. Peterson and J. C. Brereton (eds.), The Norton Reader, W. W. Norton and Co., New York, 2004, pp. 963-971.

### b. Reviews.

Cartmill, M. 1972. Review of Background for Man, edited by P. Dolhinow and V.M. Sarich. American Journal of Physical Anthropology 37: 314-315.

Cartmill, M. 1974. Anatomy in action (Review of Biomechanics, by C. Gans.). Science 186: 526-527.

Cartmill, M. 1975. Mammals in motion (Review of How Mammals Run, by P.P. Gambaryan.). Science 188: 844-845.

Cartmill, M. 1977. Review of Monkeys Without Tails, by John Napier. American Anthropologist 79: 711.

Cartmill, M. 1978. Recapitulationism: issues evolutionary and philosophical (Review of Ontogeny and Phylogeny, by S.J. Gould.). Science 199: 1194-1195.

Cartmill, M. 1980. The order Primates. (Review of Evolutionary History of the Primates, by F.S. Szalay and E. Delson.) Science 208: 720-721.

- Cartmill, M. 1981. Review of Environment, Behavior, and Morphology: Dynamic Interactions in Primates, edited by M.E. Morbeck, H. Preuschoft, and N. Gomberg. Human Biology 53: 154-157.
- Cartmill, M. 1981. Lucy in the sand with footnotes. (Review of Lucy: The Beginnings of Humankind, by D.C. Johanson and M.A. Edey.) Natural History (April): 90-95. Excerpted reprint in D. Bryfonski (ed.), Contemporary Issues Criticism, Gale Research Co., Detroit, 1982, vol. 1, p. 340.
- Cartmill, M. 1981. Review of The Evolutionary Synthesis: Perspectives on the Unification of Biology, edited by E. Mayr and W.B. Provine. New England Journal of Medicine 305: 350-351.
- Cartmill, M. 1981. Striger, striger, burning dim. (Review of After Man: A Zoology of the Future, by D. Dixon.) Natural History (December): 82-89.
- Cartmill, M. 1982. An ill-timed modesty. (Review of Evolution: Genesis and Revelations, by C. Leon Harris.) Natural History 91(6): 60-63.
- Cartmill, M. 1982. Island primates. (Review of The Primates of Madagascar, by I. Tattersall.) Science 217: 1132-1133.
- Cartmill, M. 1983. Biology, culture and punctuationism. (Review of The Myths of Human Evolution, by N. Eldredge and I. Tattersall.) Evolution 37: 1095-1096.
- Cartmill, M. 1985. Review of Just Before the Origin: Alfred Russel Wallace's Theory of Evolution, by J.L. Brooks. Man 20: 549-550.
- Cartmill, M. 1986. Review of The Taming of Evolution, by D.J. Greenwood. American Scientist 74: 100.
- Cartmill, M. 1986. Animal rights and wrongs. (Review of The Case for Animal Experimentation, by M.A. Fox.) Natural History (July): 66-69.
- Cartmill, M. 1987. Review of Size and Scaling in Primate Biology, edited by W.L. Jungers. American Anthropologist 89: 220-221.
- Cartmill, M. 1989. Review of Ecce Homo, by F. Spencer. Journal of Human Evolution 18: 289-291.
- Cartmill, M. 1989. Misdeeds in anthropology. (Review of Bones, Bodies, Behavior: Essays on Biological Anthropology, edited by G.W. Stocking, Jr.) Science 244:8 58-859.
- Cartmill, M. 1991. Review of Primate Visions, by Donna Haraway. International Journal of Primatology 12: 67-75.
- Cartmill, M. 1991. Getting at the heart of the wild things. (Review of The Nature Fakers: Wildlife, Science, and Sentiment, by R.H. Lutts.) Natural History (February): 64-67.

- Cartmill, M. 1991. Review of Wonderful Life, by S.J. Gould. American Journal of Physical Anthropology 84: 368-371.
- Cartmill, M. 1991. Review of Created From Animals: The Moral Implications of Darwinism, by James Rachels. American Scientist 79: 184.
- Cartmill, M. 1992. Dragons in Eden. (Review of Scenes from Deep Time, by M.J.S. Rudwick, and Dinotopia by J. Gurney.) Natural History (December): 14-18.
- Cartmill, M. 1993. Review of Animal Research and Ethical Conflict, by M.T. Phillips and J.A. Sechzer. International Journal of Primatology 14: 501-503.
- Cartmill, M. 1994. Questions of enslavement. (Review of Visions of Caliban: On Chimpanzees and People, by Dale Peterson and Jane Goodall.) Science 263: 252-253.
- Cartmill, M. 1995. Aping language. (Review of Kanzi: The Ape at the Brink of the Human Mind, by Sue Savage-Rumbaugh and Roger Lewin.) Nature 373: 206.
- Cartmill, M. 1995. Significant others. [Review of Jennie, by Douglas Preston, and Kanzi: The Ape at the Brink of the Human Mind, by Sue Savage-Rumbaugh and Roger Lewin.) Natural History (June), pp. 74-77.
- Cartmill, M. 1997. Alternative divisions. [Review of The Platypus and the Mermaid, and Other Figments of the Classifying Imagination, by Harriet Ritvo.] Natural History (October) 12-13.
- Cartmill, M. 1999. Review of Anthropomorphism, Anecdotes, and Animals, edited by Robert W. Mitchell, Nicholas S. Thompson, and H. Lyn Miles. International Journal of Primatology 20: 1037-1040.
- Cartmill, M. 2000. Review of Mystery of Mysteries: Is Evolution a Social Construction? by Michael Ruse. Reports of the National Center for Science Education 19 (5): 43-44.
- Cartmill, M. 2003. Men behaving childishly. [Review of The Eternal Child, by Clive Bromhall.] Times Literary Supplement (London) 5223 (May 8): 28.
- Cartmill, M. 2003. Mystery of the missing animals. [Review of Life on a Young Planet, by Andrew H. Knoll.] Times Literary Supplement (London) 5232 (July 11): 12.
- Cartmill, M. 2005. Review of Darwin and Design, by Michael Ruse. American Journal of Physical Anthropology 128: 490-492.
- Cartmill, M. 2005. Review of Catastrophes and Other Calamities, by Tony Hallam. Times Literary Supplement (London) (September 9): 26.
- Cartmill, M. 2005. Review of Icons of Evolution — Science or Myth? by Jonathan Wells. Reports of the National Center for Science Education 25 (Sept-Dec.): 47-50.

Cartmill, M. 2008. Review of Bigfoot Exposed: An Anthropologist Examines America's Enduring Legend, by David J. Daegling, and Sasquatch: Legend Meets Science, by Jeff Meldrum. American Journal of Physical Anthropology 135: 117-118.

**c. Selected abstracts.**

Cartmill, M. and R.H. Tuttle. 1966. Mammalian social patterns in a savannah environment. American Journal of Physical Anthropology 25: 202.

Cartmill, M. 1968. Morphology and orientation of the orbit in arboreal mammals. American Journal of Physical Anthropology 29: 131-132.

Cartmill, M. 1972. Daubentonia, woodpeckers, and klinorhynch. American Journal of Physical Anthropology 37: 432.

Cartmill, M. and K. Milton. 1974. The lorisiform wrist joint. American Journal of Physical Anthropology 41: 471.

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- Cartmill, M. and D. Schmitt. 1997. The effect of pelvic width on pelvic rotation during bipedalism in modern and fossil hominids. American Journal of Physical Anthropology, supplement 24: 89.
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- Cartmill, M. and D. Schmitt. 1999. Axial rotation in the lumbar vertebral column of Australopithecus africanus. American Journal of Physical Anthropology, supplement 28: 102-103.
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Cartmill, M., D. Schmitt, P. Lemelin, E. A. Cartmill, and C. D. Atkinson. 2008. Gait patterns in primates and marsupials: similarities and differences. American Journal of Physical Anthropology, supplement 46: 76.

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**d. Editorials, position, and background papers.**

Doyle, G.A. and M. Cartmill. 1980. Introductory statement. International Journal of Primatology 1: 1-2.

Day, M.H., M. Cartmill, N. Staddon, and W. Bosler (eds.). 1982. W.C. Osman Hill: selected publications (1926-1974). International Journal of Primatology 2: 121-129.

Cartmill, M. 1990. Report of the Editor. American Journal of Physical Anthropology 83: 511-512.

Cartmill, M. 1991. Report of the Editor. American Journal of Physical Anthropology 86: 570-571.

Cartmill, M. 1992. Report of the Editor. American Journal of Physical Anthropology 89: 513-515.

Cartmill, M. and K. Brown. 1993. Report of the Editors. American Journal of Physical Anthropology 92: 558-559.

Cartmill, M. and A. D. Yoder. 1994. Molecules and morphology in primate systematics: an introduction. American Journal of Physical Anthropology 94: 1.

Cartmill, M. and K. Brown. 1994. Report of the Editors. American Journal of Physical Anthropology 95: 461-463.

Cartmill, M. and K. Brown. 1995. Report of the Editors. American Journal of Physical Anthropology 98: 618-621.

Cartmill, M. 2000. A view on the science: physical anthropology at the millennium. American Journal of Physical Anthropology 113: 145-149.

Cartmill, M. and I. Lofstrom. 2000. Introduction to the symposium "Animal Consciousness: Historical, Theoretical, and Empirical Perspectives." American Zoologist 40: 833-834.

Brown, K. and M. Cartmill. 2001. Series introduction. In: B. Bogin, The Growth of Humanity. John Wiley and Sons, New York, pp. xiii-xiv.

Brown, K., and M. Cartmill. 2006. Series introduction. In: L. Klepinger, Fundamentals of Forensic Anthropology. John Wiley and Sons, New York, pp. xiii-xiv.

**e. Obituaries.**

Cartmill, M. 1992. Obituary: John Buettner-Janusch, 1924-1992. Anthropology Newsletter 33 (9): 4.

Cartmill, M. 1996. Obituary: Weston LaBarre, 1911-1996. Anthropology Newsletter 37 (5): 51.

**f. Major invited addresses and named lectures.**

1984. Annual luncheon address, American Association of Physical Anthropologists: "Scientific Method and Mythological Content in Paleoanthropology."

1986. Ermine Cowles Case Memorial Lecture, University of Michigan: "Revolutionary Cant in Evolutionary Rhetoric: The Myth of the Scientific Revolution."

1991. Annual dinner address, Association of Graduate Liberal Studies Programs: "Why Science Matters in the Liberal Arts."

1994. Annual luncheon address, American Association of Physical Anthropologists: "Reinventing Anthropology."

1995. George A. Miller Lecture, University of Illinois: "The Bloody Edge: Hunting and the Animal-Human Boundary in Science and Art."

1995. Howell Lecture, East Carolina University: "Hunting and Nature through History."

1996. James Arthur Lecture, American Museum of Natural History: "Do Horses Gallop in Their Sleep? Consciousness, Evolution, and the Problem of Animal Minds."

1999. L. S. B. Leakey Lecture, California Academy of Sciences / L. S. B. Leakey Foundation: "Language and Human Evolution."

2001. Journal of Anthropological Research Distinguished Lectureship, University of New Mexico: "Paleoanthropology: Science or Mythological Charter?"

2003. American Association of Physical Anthropologists, Annual Meeting, Plenary Session: "Can Biological Anthropology and Cultural Anthropology Co-Exist?" (Presenter and panel member)

2003. Darwin's Birthday Address, North Carolina State University: "Evolution, Creation, and Eternity: What's Wrong with the 'Creation' Part of 'Creation Science.'"

### Professional Awards and Special Recognitions:

- 1962 ACLS Summer Linguistics Scholarship.  
1964 Honorary Woodrow Wilson Fellow.  
1964 B.A. *summa cum laude*.  
1964 Phi Beta Kappa.  
1966 Sigma Xi.  
1964-1969 National Science Foundation Graduate Fellowship.  
1968 Sigma Xi Grant-in-Aid of Research.  
1971 Student A.M.A. Medical Teaching Award (also nominated 1982, 1983, 1984, 1985).  
1975-1979 NIH Research Career Development Award (5 years' support).  
1983 Elected Fellow of American Association for the Advancement of Science.  
1985-1986 J.S. Guggenheim Fellow.  
1992 Duke University Scholar/Teacher of the Year Award.  
1992 Student A.M.A. Medical Teaching Award (also nominated 1998, 2006).  
1994 Nominee, 1993-1994 Duke Alumni Distinguished Undergraduate Teaching Award.  
1994 W. W. Howells Award, American Anthropological Association, for A View to a Death in the Morning.  
1995 George Perkins Marsh Book Award, American Society for Environmental History, for A View to a Death in the Morning.  
1996 Elected President, American Association of Physical Anthropologists.  
1997 Duke Medical Alumni Distinguished Teaching Award.  
1999-2000 Phi Beta Kappa Visiting Scholar.  
2000 Davison Society Excellence in Teaching Award.  
2001 Journal of Anthropological Research Distinguished Lecturer (University of New Mexico).  
2003 Named to Phi Beta Kappa Fellows Lectureship panel of distinguished speakers.

### Editorial Service:

- Editorial Board, Yearbook of Physical Anthropology, 1972-1978.  
Section Editor, International Primatological Society, 6th Congress Proceedings (1976-1978).  
Joint Managing Editor (with G. A. Doyle), International Journal of Primatology, 1978-1989.  
Editorial Board, International Journal of Primatology, 1989-date.  
Editor-in-Chief, American Journal of Physical Anthropology, 1989-1995.  
Editorial Board, Behavior and Philosophy, 1997-2004.  
Series Editor (with Kaye Brown), textbook series Foundations of Human Biology and Advances in Human Biology, John Wiley and Sons, 1996-date.  
Editorial Board, American Anthropologist, 2005-2008.  
Manuscript referee for American Anthropologist, American Journal of Physical Anthropology, American Scientist, Behavior and Philosophy, Current Anthropology, Evolutionary

Anthropology, Evolutionary Theory, Journal of Human Evolution, Journal of Mammalogy, Natural History, Nature, Paleobiology, Science, Yearbook of Physical Anthropology, etc.

### **Departmental Evaluations:**

External evaluator, University of Zürich, Division of Biological Sciences, 1994.  
External evaluator, University of Toronto, Department of Anthropology, 1995.  
External evaluator, University of Kyoto, Primate Research Institute, Divisions of Morphology and of Phylogeny and Systematics, 1996.  
External evaluator, Johns Hopkins University Medical Center, Functional Anatomy and Evolution unit (Cell Biology and Anatomy), 2000.

### **Organizations, Participation, and Professional Service:**

Executive Committee, American Association of Physical Anthropologists, 1989-1995, 1996-2000.  
President, Duke Chapter, Sigma Xi, 1992-1993.  
Executive Committee, Duke Chapter, Sigma Xi, 1993-1994.  
Local Arrangements Chairman, 65th annual convention, American Association of Physical Anthropologists, 1996.  
Chair, Meetings Planning Committee, American Association of Physical Anthropologists, 1996-date.  
Publications Committee, American Association of Physical Anthropologists, 1997-date.  
President-Elect, American Association of Physical Anthropologists, 1996-1997.  
President, American Association of Physical Anthropologists, 1997-1999.  
Past President, American Association of Physical Anthropologists, 1999-2000.

### **Areas of Research Interest (basic and applied):**

Bipedal locomotion  
Gait analysis  
Origin and differentiation of primates  
Evolution of arboreal adaptations in mammals  
Evolution of the carotid arteries and basicranium  
Origins of higher primates  
Origins of language  
Theoretical systematics  
History of ideas  
History and philosophy of science

## **External Support - Gifts, Grants, and Contracts:**

- Wenner-Gren Foundation Travel Grant, 1966.
- Grant from NIH Institutional Grant (RR-5405-09), 1970, for study of arboreal locomotion in mammals.
- NIH Research Career Development Award (5 years' support), 1975-1979.
- NSF research grant (DEB 82-08797: with R.D.E. MacPhee), 1982-1985, for study of comparative embryology of primates.
- J. S. Guggenheim Fellowship, 1985-1986.
- L. S. B. Leakey Foundation grant (with D. Schmitt), 1995-1997, for comparative study of the kinematics of bipedal locomotion.
- L. S. B. Leakey Foundation grant (with R. F. Kay), 1997-1999, for study of the comparative anatomy of the hypoglossal canal and its bearing on the origin of language.
- Wenner-Gren Foundation grant (with R. F. Kay), 1998-2000, for study of the comparative anatomy of the hypoglossal canal and its bearing on the origin of language.
- NSF support grant [with I. Lofstrom], 1998-1999, for support of a symposium on animal consciousness.
- NSF research grant (BCS-0137930: with D. Schmitt and P. Lemelin), 2002-2008, for study of gait patterns in primates and other tetrapods.

## **Participation in academic and administrative activities of Duke University and Medical Center:**

- First Year Medical Curriculum Committee, 1972-1974.
- Duke Union Board, 1974-1975.
- Interim Director, Duke Primate Center, 1977.
- Primate Center Internal Advisory Committee, 1977-2001.
- Residential Life Committee, 1977-1978.
- Director of Undergraduate Studies, Dept. of Anatomy, 1980-1988.
- Basic Medical Sciences Faculty Coordinating Committee, departmental alternate, 1987.
- Basic Medical Sciences Appointments, Promotion and Tenure Committee, 1987-1990.
- Medical Center Awards Committee, 1988-1990.
- Faculty Nomenclature Committee, 1988.
- Long-Range Medical Curriculum Planning Committee, 1988-1989.
- Task Force on Curriculum Modeling (Bradford Committee), 1988-1989.
- Curriculum Committee on Current Policy, 1989-1992.
- Curriculum Planning and Implementation Committee, 1989-1991.
- Chair, Basic Sciences Curriculum Committee, 1989-1991.
- Clinical Arts Planning Committee, 1989-1994.
- Center for Science Education Advisory Committee, 1992.
- Faculty Advisor, Society of James B. Duke Fellows, 1992-1993.
- Medical Center LCME Task Force on Objectives, 1993-1994.
- Coordinating Committee for Basic Science Graduate Programs, 1992-1994.
- Medical Education Oversight Committee, 1991-1995.
- Duke Faculty Newsletter Advisory Board, 1993-2002.
- Advisory Board, Society of Duke Fellows, 1994-1995.

Liberal Studies (MALS) Advisory Committee, 1994-1997.  
Chair, First Year Block II Medical Curriculum Subcommittee, 1996-2001.  
Task Force on First-Year Medical Curriculum Content, 1999.  
University Writing Program Steering Committee, 1997-1998.  
Medical Center Affairs Committee, 1998-1999.  
MedPAC, 1998-1999.  
Academic Council (alternate), 1999-2000.  
Task Force on Curriculum Structure and Organization (School of Medicine), 2000.  
Medical Center LCME Task Force, 2000-2001.  
Chair, Primate Center Director Search Committee, 2003-2005.  
FOCUS Program Chairs Committee, 1999-2001, 2002-date.  
Medical School Curriculum Committee, 1995-2008.  
Co-Chair, Normal Body Medical Curriculum Subcommittee, 2001-2003.  
First Year Course Directors' Committee, 2003-2008.  
Open Access Curriculum Steering Committee, 2004-2008.  
Basic Medical Sciences Faculty Steering Committee:  
    1. Departmental alternate, 1990-1991, 1999-2000.  
    2. Chair, 1998-1999.  
    3. Departmental representative, 1991-1992, 1994-1999, 2000-2007.  
Dean's Task Force on the Department of Biological Anthropology, 2006-2007.  
Duke South Gross Anatomy Facility Design Task Group, 2007.

**Participation in academic and administrative activities of Boston University:**

Chair, Biological Anthropology Search Committee, 2008-2009.