

MATT CARTMILL — CURRICULUM VITAE

Date Revised: September 24, 2020

Name: Matt Cartmill

Primary Academic Appointment: Professor

Present Academic Rank and Title:

Professor of Anthropology, Boston University
Professor Emeritus of Evolutionary Anthropology, Duke University

Date and Place of Birth: 1/4/43, Los Angeles, California

Citizen of: USA

Married: to Kaye Brown, May 29, 1971.

Children: Erica A. Cartmill, b. March 13, 1981.

Contact Information:

Residence: 59 Bay State Rd., Apt. 8/9, Boston, MA 02215 U.S.A.

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Education:	<u>Place</u>	<u>Degree</u>	<u>Date</u>	<i>Thesis Title</i>
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.
2008-2011	Professor, Boston University, Department of Anthropology, and Research Professor, Duke University, Department of Evolutionary Anthropology.
2011-	Professor, Boston University, Department of Anthropology, and Research Professor Emeritus, Duke University, Department of Evolutionary Anthropology.
2013-2016	Professor and Chair, Boston University, Department of Anthropology, and Research Professor Emeritus, Duke University, Department of Evolutionary Anthropology.
2016-date	Professor, Boston University, Department of Anthropology, and Research Professor Emeritus, Duke University, Department of Evolutionary Anthropology.

Courses Taught at Duke:

- Gross Anatomy (Duke University School of Medicine)
- The Normal Body (Duke University School of Medicine)
- Anatomy of the Limbs (Duke University School of Medicine)
- Anatomy of the Trunk (Duke University School of Medicine)
- General Anthropology
- Introduction to Biological Anthropology
- Human Origins
- The Human Body
- 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 biological 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
- Proseminar: The Biological and Historical Past
- Theory in Biological Anthropology
- Creation and Evolution
- The Human Skeleton
- Primate Biomechanics
- Human Uniqueness
- Origins (Core Curriculum)
- Independent study courses in biological anthropology

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* 189: 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. 1984. Innate grammars and the evolutionary presumption. *Behavioral and Brain Sciences* 7: 191.

Cartmill, M., D. Pilbeam, and G. Ll. 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 dermopterian *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. Primate origins and carpolestid relationships: not nailed yet. *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.
- Lemelin, P., and M. Cartmill. 2010. The effect of substrate size on the locomotion and gait patterns of the kinkajou (*Potos flavus*). *Journal of Experimental Zoology (Part A)*. 313: 1-12.

- Cartmill, M. 2010. The human (r)evolution(s). *Evolutionary Anthropology* 19: 89-91.
- Cartmill, M., and K. Brown. 2012. Being human means that “being human” means whatever we say it means. *Evolutionary Anthropology* 21: 183.
- Cartmill, M. 2012. Primate origins, human origins, and the end of higher taxa. *Evolutionary Anthropology* 21: 208-220.
- Cartmill, M. 2013. The end of higher taxa: a reply to Tattersall. *Evolutionary Anthropology* 22: 172-173.
- Grochowski, C.O., M. Cartmill, J. Reiter, J. Spaulding, J. Haviland, F. Valea, P.L. Thibodeau, S. McCorison, and E. V. Halperin. 2014. Anxiety in first year medical students taking gross anatomy. *Clinical Anatomy* 27: 835-838.
- Cartmill, M. 2017. Convergent? Minds? Some questions about mental evolution. *Interface Focus* 7: 20160125. (<http://dx.doi.org/10.1098/rsfs.2016.0125>)
- Cartmill, M. 2018. A sort of revolution: systematics and physical anthropology in the 20th century. *American Journal of Physical Anthropology* 165: 677–687.
- Cartmill, M., K. Brown, C. Atkinson, E. Cartmill, E. Findley, D. Gonzalez-Socoloske, A. Hartstone-Rose, and J. Mueller. 2020. The gaits of marsupials and the evolution of diagonal-sequence walking in primates. *American Journal of Physical Anthropology* 171: 182-197.
- Published online Nov. 25, 2019. This paper was selected as the monthly Editor's Choice article for the *American Journal of Physical Anthropology* for its "impact and exemplary scientific quality."
- Cartmill, M. 2020. Do beetles have experiences? How can we tell? *Animal Sentience* 29 (31): 1-3.
- Laudicina, N., and M. Cartmill. In preparation. Clavicle length and shoulder breadth in hominoid evolution. *American Journal of Physical Anthropology*.
- Laudicina, N. and M. Cartmill. In preparation. Obstetric constraints in large-brained cebids and modern humans: a comparison of coping mechanisms. *American Journal of Physical Anthropology*.

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. 1983. Four legs good, two legs bad: man's place (if any) in nature. *Natural History* 92 (11): 64-79.

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.

Cartmill, M. 2011. Turtles all the way down: the *Atlas of Creation*. *Reports of the National Center for Science Education* 31 (2): 1-10.

Reprints and translations: "Harun Yahya 'Srishtir Manchitra'" (translated into Bengali by Ananta Bijoy Dash), *Jukti*, Number-4, July, 2013, pp. 145-163; *Felsefe Tartışmaları: A Turkish Journal of Philosophy* (2018).

3. Chapters in Books:

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

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

Cartmill, M. 1974. *Daubentonia*, *Dactylopsila*, woodpeckers, and klinorhynch. In: R. D. Martin, 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: W. P. Luckett and F. S. Szalay (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. 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. 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. 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: G. T. H. Ellison and A. Goodman (eds.), *The Nature of Difference: Science, Society, and Human Biology*. Taylor & Francis, London, pp. 3-16.

Cartmill, M. 2009. Primate classification and diversity. In: M. L. Platt and A. Ghazanfar (eds.), *Primate Neuroethology*. Oxford University Press, Oxford, pp. 10-30.

Brown, K., and M. Cartmill. 2010. 75 years of the annual meetings of the American Association of Physical Anthropologists, 1930-2004. In: M. A. Little and K. A. R. Kennedy (eds.), *Histories of American Physical Anthropology in the Twentieth Century*. Lexington Books, Lanham, Md, pp. 221-232.

Cartmill, M., and K. Brown. 2017. Posture, locomotion and bipedality: the case of the gerenuk (*Litocranius walleri*). In: A. Marom and E. Hovers (eds.), *Human Paleontology and Prehistory: Contributions in Honor of Yoel Rak*. Springer, New York, pp. 53-70.

Cartmill, M. In press. Matt Cartmill (questions and answers). In: S. Almécija (ed.), *Humans: Reflections About Our Present, Past & Future from the World Experts*. Columbia University Press, New York.

4. Encyclopedia Articles:

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. 1997. Hunting hypothesis of human origins. In: F. Spencer (ed.), *History of Anthropology: An Encyclopedia*, Garland, New York, pp. 508-512.

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.

Brown, K., and M. Cartmill. 2018. Human uniqueness. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, pp. 847-862.

Cartmill, M. 2018. Binocular vision. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 1, pp. 172-176.

Cartmill, M. 2018. Broom, Robert. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 1, pp. 283-284.

- Cartmill, M. 2018. Fischer, Eugen. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, pp. 560-561.
- Cartmill, M. 2018. Hill, W. C. Osman. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, p. 784.
- Cartmill, M. 2018. Hominidae: conceptual history. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, pp. 785-789.
- Cartmill, M. 2018. Homology. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, pp. 825-829.
- Cartmill, M. 2018. Jones, F. Wood. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, pp. 900-901.
- Cartmill, M. 2018. Monophyly. In: W. Trevathan, M. Cartmill, D. L. Dufour, C. L. Larsen, D. H. O'Rourke, K. R. Rosenberg, and K. B. Strier (eds.), *International Encyclopedia of Biological Anthropology*. Wiley-Blackwell, Hoboken, N.J, vol. 2, pp. 1032-1035.
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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.

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6. Other:

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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.

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d. Editorials, position papers, and background papers.

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

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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.

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Cartmill, M. and K. Brown. 2016. Series Editors' Preface. In: C.P. van Schaik, *The Primate Roots of Human Nature*. Wiley-Blackwell, Hoboken, N.J.

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e. Obituaries.

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

Cartmill, M. 2018. Alan C. Walker (1938-2017). *American Journal of Physical Anthropology* 166: 273-275.

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.'"
2008. Boston University Provost's Colloquium: "150 Years Without Darwin Is Enough! The Belated Impact of Darwinism on the Study of Human Evolution."
2011. Boston University Colloquium for the Philosophy of Science: "Cultural and Morphological Change in Human Prehistory."
2011. Univ. of Calif. San Diego/Salk Institute, Center for Academic Research and Training in Anthropogeny (CARTA): "Body Fat and Bipedality."
2011. Univ. of Calif. San Diego/Salk Institute, Center for Academic Research and Training in Anthropogeny (CARTA): "Virginia Avis 50 Years Later: Is Brachiation Still the Crucial Issue?"
2015. Boston University Center for the Philosophy of Science, Oct. 24, 2015 colloquium on "Convergent Minds." Concluding summary and critique.
2020. National Museum of Natural History, Smithsonian Institution, Washington, D.C., June 25: "What, If Anything, Is *Australopithecus afarensis*?"

7. 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.
- 2011 Elected Member of UC San Diego/Salk Institute Center for Academic Research and Training in Anthropogeny (CARTA).
- 2019 Charles R. Darwin Lifetime Achievement Award, American Association of Physical Anthropologists.

8. 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*, 1989-2005.
 Editor-in-Chief, *American Journal of Physical Anthropology*, 1989-1995.
 Series Editor (with Kaye Brown), textbook series *Foundations of Human Biology* and *Advances in Human Biology*, Wiley/Blackwell, 1996-date.
 Editorial Board, *Behavior and Philosophy*, 1997-2004.
 Editorial Board, *American Anthropologist*, 2005-2008.
 Associate Editor, *International Encyclopedia of Biological Anthropology*, 2013-2017.
 Senior Associate Editor, *International Encyclopedia of Biological Anthropology*, 2017-2018.

Associate Editor, *American Journal of Physical Anthropology*, 2017-2018.

Manuscript referee for *Science*, *Nature*, *American Anthropologist*, *American Journal of Physical Anthropology*, *Yearbook of Physical Anthropology*, *Proceedings of the Royal Society (London)*, *Proceedings of the National Academy of Sciences (U.S.A.)*, *Current Anthropology*, *Evolutionary Anthropology*, *Journal of Human Evolution*, *American Scientist*, *Behavior and Philosophy*, *Southern Cultures*, *Evolutionary Theory*, *Journal of Mammalogy*, *Journal of Anthropological Research*, *Journal of Biogeography*, *Journal of Anatomy*, *Clinical Anatomy*, *Journal of Zoology*, *Natural History*, *Paleobiology*, *Philosophical Psychology*, etc.

9. 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.

External evaluator, George Washington University, Department of Anthropology, 2009.

External evaluator, Dartmouth College, Department of Anthropology, 2011.

10. 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, 1996-2012.

Publications Committee, American Association of Physical Anthropologists, 1997-2000.

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.

Constitution and By-Laws Committee, American Association of Physical Anthropologists, 2010-2011.

11. Areas of Research Interest:

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
Animal consciousness
Human evolution
Human uniqueness
Theoretical systematics
History of ideas
History and philosophy of science

12. 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.

13. Participation in academic and administrative activities of Duke University and Duke 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 (Medical School Faculty Senate), 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, 2002-2008.
 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 Hospital South, Gross Anatomy Facility Design Task Group, 2007.

14. Participation in academic and administrative activities of Boston University:

Chair, Biological Anthropology Search Committee, 2008-2009.
 Chair, Biological Anthropology Search Committee, 2009-2010.
 Director of Graduate Studies, Dept. of Anthropology, 2009-2013.
 Graduate Research Abroad Fellowships Committee, 2009-2013. Chair, 2010-2012.
 Graduate Admissions Committee, Dept. of Anthropology, 2009-2016. Chair, 2010-2013.
 Chair, Proseminar Committee, Dept. of Anthropology, 2010-2013.
 Co-organizer, Boston University Dialogues in Biological Anthropology, 2010-date.
 Graduate Academic Affairs Committee, 2011-2013.

Chair, Biological Anthropology Search Committee, 2012-2013.
Provost's Senior Hiring Initiative Committee, 2012-2015.
Chair, Department of Anthropology, 2013-2016.
Biological Anthropology Search Committee, 2014-2015.
Biological Anthropology Search Committee, 2015-2016.
College of Arts and Sciences Academic Priorities Committee, 2019-date.