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# *Human Bipedalism*

# Evolution Of Bipedalism

**Jeremy DeSilva**



## Evolution Of Bipedalism:

*The Evolution of Bipedalism* Boni M. Forrest, 1999      *From Biped to Strider* Jeff Meldrum, Charles E. Hilton, 2004-03-31

The inspiration for this volume of contributed papers stemmed from conversations between the editors in front of Chuck Hilton's poster on the determinants of hominid walking speed presented at the 1998 meetings of the American Association of Physical Anthropologists (AAPA). Earlier at those meetings Jeff Meldrum with Roshna Wunderlich had presented an alternate interpretation of the Laetoli footprints based on evidence of midfoot flexibility. As the discussion ensued we found convergence on a number of ideas about the nature of the evolution of modern human walking. From the continuation of that dialogue grew the proposal for a symposium which we called *From Biped to Strider: The Emergence of Modern Human Walking*. The symposium was held as a session of the 69th annual meeting of the AAPA held in San Antonio, Texas in 2000. It seemed to us that the study of human bipedalism had become overshadowed by the often polarized debates over whether australopithecines were wholly terrestrial in habit or retained a significant degree of arboreality.

**Lowly Origin** Jonathan Kingdon, 2004-10-04 The evolution of bipedalism: the story of why our ancestors stood up is examined in this text which presents an entirely new account of how four-legged apes became two-legged hominids. Kingdon also addresses the problems caused by the proliferation of hominid fossil species of which up to 20 have been listed.

Symposium Issue Robin H. Crompton, Michael Günther, Anatomical Society of Great Britain and Ireland, 2004      *First Steps: How Walking Upright Made Us Human* Jeremy DeSilva, 2021-04-06 Humans are the only mammals to walk on two rather than four legs. From an evolutionary perspective this is an illogical development as it slows us down. But here we are suggesting there must have been something tremendous to gain from bipedalism.

**Evolution of Bipedalism in Dipodoidea (Rodentia: Mammalia)** Shaoyuan Wu, 2011      **First Steps** Jeremy DeSilva, 2021-04-06 A Science News Best Science Book of the Year. A brilliant fun and scientifically deep stroll through history, anatomy and evolution. Agustín Fuentes PhD author of *The Creative Spark: How Imagination Made Humans Exceptional*. Winner of the W. W. Howells Book Prize from the American Anthropological Association. Blending history, science and culture, this highly engaging evolutionary story explores how walking on two legs allowed humans to become the planet's dominant species. Humans are the only mammals to walk on two rather than four legs, a locomotion known as bipedalism. We strive to be upstanding citizens, honor those who stand tall and proud, and take a stand against injustices. We follow in each other's footsteps and celebrate a child's beginning to walk. But why and how exactly did we take our first steps? And at what cost? Bipedalism has its drawbacks: giving birth is more difficult and dangerous, our running speed is much slower than other animals, and we suffer a variety of ailments from hernias to sinus problems. In *First Steps*, paleoanthropologist Jeremy DeSilva explores how unusual and extraordinary this seemingly ordinary ability is. A seven million year journey to the very origins of the human lineage, this book shows how upright walking was a gateway to many of the other attributes that make us human: from our technological abilities to our thirst for exploration and our use of language.

and may have laid the foundation for our species traits of compassion empathy and altruism Moving from developmental psychology labs to ancient fossil sites throughout Africa and Eurasia DeSilva brings to life our adventure walking on two legs Includes photographs A book that strides confidently across this complex terrain laying out what we know about how walking works who started doing it and when The New York Times Book Review DeSilva makes a solid scientific case with an expert history of human and ape evolution Kirkus Reviews A brisk jaunt through the history of bipedalism will leave readers both informed and uplifted Publishers Weekly Breezy popular science at its best Science News **American journal of physical anthropology** American Association of Physical Anthropologists, Wistar Institute of Anatomy and Biology, 2002 Includes section Literature **Darwin's Legacy** Sue Taylor Parker, Karin Enstam Jaffe, 2008-06-13 DarwinOs Legacy Scenarios in Human Evolution compares ideas about human evolution Darwin published in The Descent of Man in 1891 to 30 scenarios about the evolution of such unique human characteristics as bipedalism hairless skin secondary sex characters language and culture that anthropologists and psychologists published between 1950 and 2006 It evaluates ideas about hunting and scavenging aimed throwing primitive warfare aquatic life courtship and sign language in light of modern data on genetics stone tools fossils and primate behavior Parallels between DarwinOs ideas and those of modern researchers are striking

**Sex and Cohabitation Among Early Humans** Rene J. Herrera, Ralph Garcia-Bertrand, 2023-02-14 Sex and Cohabitation Among Early Humans Anthropological and Genetic Evidence for Interbreeding Among Early Humans explores the available information regarding interbreeding among different ancestral human species In addition it reviews evidence in support of cohabitation as well as cultural and technological interactions and exchanges among early humans particularly Neanderthal sapiens interactions The fields of archaeology anthropology genetics linguistics and molecular evolution have provided a wealth of information on the complex processes involved in human evolution The book will help readers will develop knowledge on the complexity and multiplicity of hominins including Homo heidelbergensis Homo sapiens and Homo floresiensis Moreover the book will help them reach a greater understanding of major topics such as introgression migration from Africa the origin development and extinction of Neanderthals interbreeding between Neanderthals and humans and trait continuity Integrates genetic evolutionary anthropological archaeological anatomical artistic and linguistic research among other areas Written in a simple and direct style that is accessible to readers from different backgrounds and levels of understanding Provides an integrative and holistic overview of recent developments in research on how different interactions between ancient hominins contributed to the evolution of our species *Primate Behavior and the Emergence of Human Culture* Jane Beckman Lancaster, 1975 The purpose of this book is to present an introduction to the understanding of man and human behavior as the products of a long evolutionary history Page ix **On the Origin of Human Masticatory Function** Andrea Papini, 2025-10-01 This book outlines how the physiology of human mastication is the product of an evolutionary development that has its roots in that of the primates that were our ancestors and even earlier in that of

mammals In order to understand deeply who we are we must know where we come from This book therefore highlights in a truly interdisciplinary fashion how dentistry and paleoanthropology often intersect and how knowledge about both these subjects overlap By laying anatomical functional foundations of our oral system combining dental and paleoanthropological knowledge this book offers great value to students and scholars of both disciplines *The Developmental Origins and Functional Role of Postcranial Adaptive Morphology in Human Bipedal Anatomy* Adam Foster, 2014 When considering the array of terrestrial locomotor behaviors bipedalism is a particularly rare way of moving about the landscape In fact humans are the only obligate terrestrial mammalian bipeds Therefore understanding both how and why it evolved is particularly intriguing However there is debate over why the evolution of bipedalism occurred and there is a large gap in knowledge for the mechanisms that underpin the evolution of these adaptive morphologies One complicating factor for sorting out which models best explain how our hominin ancestors became bipedal is that they all rely on the same set of traits Moreover many of the traits that are thought to be diagnostic of bipedalism are only linked by association and have not been experimentally tested That is they do not appear in non human primates and other quadrupeds Therefore addressing why the evolution of bipedalism occurred requires understanding the adaptive significance of traits linked with bipedalism In this dissertation I use an experimental approach employing both human and animal models to explore links between morphology and behavior and to tease apart the adaptive significance of particular traits For the human portion of the dissertation I use an inverse dynamics approach estimating muscle forces from kinematic kinetic and anatomical data to determine how modern human anatomy functions while walking using ape like postures to clarify the links between morphology and energy costs in different mechanical regimes to determine the adaptive significance of postcranial anatomy The results from this portion of the dissertation suggest that adopting different joint postures results in higher energy costs in humans due to an increase in active muscle volumes at the knee These results lead to two conclusions important for understanding the evolution of human bipedalism One is that human anatomy maintains low energy costs of walking in humans compared to chimpanzees regardless of lower limb postures Second the results suggest that erect trunk posture may be an important factor in reducing energy costs therefore indicating that lumbar lordosis the curvature of the lower spine is important for reducing costs For the animal portion of the dissertation I use rats as a model for the quadrupedal to bipedal transition and experimentally induce bipedal posture and locomotion under a variety of loading conditions to determine if traits consistent with the evolution of bipedalism occur and under what conditions This experimental design also has the ability to determine if there is a role for developmental plasticity in generating bipedal morphology to help answer the question how the evolution of bipedalism occurred I find that inducing bipedal behaviors in a quadrupedal animal generates morphology consistent with human bipedal traits and that loading conditions have specific effects in different skeletal elements and at particular joints I also find that there is a plausible role for developmental plasticity in generating adaptive bipedal morphology in the earliest

hominins Overall the results from the experimental procedures in this dissertation were able to clarify links between behavior and bipedal morphology demonstrate a plausible role for developmental plasticity in early adaptation to bipedal behavior in australopiths determine the adaptive significance of human postcranial anatomy and the ways in which postcranial anatomy reduces costs **Journal of Experimental Biology** ,2008 Biology Peter H. Raven,1999 2000 2005 State Textbook Adoption Rowan Salisbury American Journal of Physical Anthropology Aleš Hrdlička,2002 **Bipedality in Bonobo (Pan Paniscus) and Chimpanzee (Pan Troglodytes)** Elaine Nichole Videan,2000 **The Upright Ape** Aaron G. Filler,2007-06-22 A neurosurgeon and evolutionary scholar presents a bold new theory on the early origins of the hominiform human like primates Thought provoking Kirkus Reviews Drawing on such diverse antecedents as history myth and religion as well as modern developments in biology and genetics the author bravely questions and rejects the reigning scientific orthodoxy and shows how humans and apes may have had a common upright ancestor an upright ape that walked on two legs much as we do now Fuller s book is very interesting and well worth reading His evaluation of this mid lumbar vertebrae fossil may well become the watershed opinion guiding future understanding of evolution I highly recommend The Upright Ape Compulsive Reader Advances in Primatology ,1970 **Origine(s) de la bipédie chez les hominidés** Yves Coppens,Fondation Singer-Polignac,1991

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