


PHYLOGENETIC APPROACHES IN
ANTHROPOLOGY AND PREHISTORY

MAPPING OUR ANCESTORS



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Mapping Our Ancestors Phylogenetic Methods In Anthropology And

Lei Huang



Mapping Our Ancestors Phylogenetic Methods In Anthropology And:

Mapping Our Ancestors Stephen Shennan, 2017-07-12 Much of what we are comes from our ancestors Through cultural and biological inheritance mechanisms our genetic composition instructions for constructing artifacts the structure and content of languages and rules for behavior are passed from parents to children and from individual to individual Mapping Our Ancestors demonstrates how various genealogical or phylogenetic methods can be used both to answer questions about human history and to build evolutionary explanations for the shape of history Anthropologists are increasingly turning to quantitative phylogenetic methods These methods depend on the transmission of information regardless of mode and as such are applicable to many anthropological questions In this way phylogenetic approaches have the potential for building bridges among the various subdisciplines of anthropology an exciting prospect indeed The structure of Mapping Our Ancestors reflects the editors goal of developing a common understanding of the methods and conditions under which ancestral relations can be derived in a range of data classes of interest to anthropologists Specifically this volume explores the degree to which patterns of ancestry can be determined from artifactual genetic linguistic and behavioral data and how processes such as selection transmission and geography impact the results of phylogenetic analyses Mapping Our Ancestors provides a solid demonstration of the potential of phylogenetic methods for studying the evolutionary history of human populations using a variety of data sources and thus helps explain how cultural material language and biology came to be as they are

Mapping Our Ancestors Carl P. Lipo, 2017 Much of what we are comes from our ancestors Through cultural and biological inheritance mechanisms our genetic composition instructions for constructing artifacts the structure and content of languages and rules for behavior are passed from parents to children and from individual to individual Mapping Our Ancestors demonstrates how various genealogical or phylogenetic methods can be used both to answer questions about human history and to build evolutionary explanations for the shape of history Anthropologists are increasingly turning to quantitative phylogenetic methods These methods depend on the transmission of information regardless of mode and as such are applicable to many anthropological questions In this way phylogenetic approaches have the potential for building bridges among the various subdisciplines of anthropology an exciting prospect indeed The structure of Mapping Our Ancestors reflects the editors goal of developing a common understanding of the methods and conditions under which ancestral relations can be derived in a range of data classes of interest to anthropologists Specifically this volume explores the degree to which patterns of ancestry can be determined from artifactual genetic linguistic and behavioral data and how processes such as selection transmission and geography impact the results of phylogenetic analyses Mapping Our Ancestors provides a solid demonstration of the potential of phylogenetic methods for studying the evolutionary history of human populations using a variety of data sources and thus helps explain how cultural material language and biology came to be as they are Carl P Lipo is assistant professor of anthropology at California State University in Long Beach Michael O Brien is professor of

anthropology and director of the Museum of Anthropology at the University of Missouri Mark Collard is assistant professor of anthropology at the University of British Columbia Stephen J Shennan is a professor and director of the Institute of Archaeology at the University College London Niles Eldredge is a curator in the department of invertebrates at the American Museum of Natural History and adjunct professor at the City University of New York Mapping Our Ancestors Stephen Shennan,2017-07-12 Much of what we are comes from our ancestors Through cultural and biological inheritance mechanisms our genetic composition instructions for constructing artifacts the structure and content of languages and rules for behavior are passed from parents to children and from individual to individual Mapping Our Ancestors demonstrates how various genealogical or phylogenetic methods can be used both to answer questions about human history and to build evolutionary explanations for the shape of history Anthropologists are increasingly turning to quantitative phylogenetic methods These methods depend on the transmission of information regardless of mode and as such are applicable to many anthropological questions In this way phylogenetic approaches have the potential for building bridges among the various subdisciplines of anthropology an exciting prospect indeed The structure of Mapping Our Ancestors reflects the editors goal of developing a common understanding of the methods and conditions under which ancestral relations can be derived in a range of data classes of interest to anthropologists Specifically this volume explores the degree to which patterns of ancestry can be determined from artifactual genetic linguistic and behavioral data and how processes such as selection transmission and geography impact the results of phylogenetic analyses Mapping Our Ancestors provides a solid demonstration of the potential of phylogenetic methods for studying the evolutionary history of human populations using a variety of data sources and thus helps explain how cultural material language and biology came to be as they are *Pattern and Process in Cultural Evolution* Stephen Shennan,2009-03-31 This volume offers an integrative approach to the application of evolutionary theory in studies of cultural transmission and social evolution and reveals the enormous range of ways in which Darwinian ideas can lead to productive empirical research the touchstone of any worthwhile theoretical perspective While many recent works on cultural evolution adopt a specific theoretical framework such as dual inheritance theory or human behavioral ecology Pattern and Process in Cultural Evolution emphasizes empirical analysis and includes authors who employ a range of backgrounds and methods to address aspects of culture from an evolutionary perspective Editor Stephen Shennan has assembled archaeologists evolutionary theorists and ethnographers whose essays cover a broad range of time periods localities cultural groups and artifacts *Handbook of Archaeological Theories* R. Alexander Bentley,Herbert D. G. Maschner,Christopher Chippindale,2009-09-16 This handbook a companion to the authoritative Handbook of Archaeological Methods gathers original authoritative articles from leading archaeologists on all aspects of the latest thinking about archaeological theory It is the definitive resource for understanding how to think about archaeology The Evolution of Techniques Mathieu Charbonneau,2024-03-19 A novel interdisciplinary exploration of the relative contributions of rigidity

and flexibility in the adoption maintenance and evolution of technical traditions Techniques can either be used in rigid stereotypical ways or in flexibly adaptive ways or in some combination of the two The Evolution of Techniques edited by Mathieu Charbonneau addresses the impacts of both flexibility and rigidity on how techniques are used transformed and reconstructed at varying social and temporal scales The multidisciplinary contributors demonstrate the important role of the varied learning contexts and social configurations involved in the transmission use and evolution of techniques They explore the diversity of cognitive behavioral sociocultural and ecological mechanisms that promote and constrain technical flexibility and rigidity proposing a deeper picture of the enablers of and obstacles to technical transmission and change In line with the extended evolutionary synthesis the book proposes a more inclusive and materially grounded conception of technical evolution in terms of promiscuous dynamic and multidirectional causal processes Offering new evidence and novel theoretical perspectives the contributors deploy a diversity of methods including ethnographies field and laboratory experiments cladistics and phylogenetic tree building historiography and philosophical analysis Examples of the wide range of topics covered include field experiments with potters from five cultures stability and change in Paleolithic toolmaking why children lack flexibility when making tools and cultural techniques in nonhuman animals The volume s three thematic sections are Timescales of technical rigidity and flexibility Rigid copying to flexible reconstruction Exogenous factors of technical rigidity and flexibility The volume closes with a discussion by philosopher Kim Sterelny Contributors Rita Astuti Adam Howell Boyette Blandine Bril Josep Call Mathieu Charbonneau Arianna Curioni Nicola Cutting Bert De Munck Gyrgy Gergely Anne Lise Goujon Ildik Kirly Catherine Lara Sbastien Manem Luke McEllin Helena Miton Giulio Ongaro Sarah Pope Caldwell Valentine Roux Manon Schweinfurth Dan Sperber Kim Sterelny Dietrich Stout James W A Strachan Sadie Tenpas

The Oxford Handbook of the Archaeology and Anthropology of Hunter-Gatherers Vicki Cummings, Peter Jordan, Marek Zvelebil, 2014-04-24 For more than a century the study of hunting and gathering societies has been central to the development of both archaeology and anthropology as academic disciplines and has also generated widespread public interest and debate The Oxford Handbook of the Archaeology and Anthropology of Hunter Gatherers provides a comprehensive review of hunter gatherer studies to date including critical engagements with older debates new theoretical perspectives and renewed obligations for greater engagement between researchers and indigenous communities Chapters provide in depth archaeological historical and anthropological case studies and examine far reaching questions about human social relations attitudes to technology ecology and management of resources and the environment as well as issues of diet health and gender relations all central topics in hunter gatherer research but also themes that have great relevance for modern global society and its future challenges The Handbook also provides a strategic vision for how the integration of new methods approaches and study regions can ensure that future research into the archaeology and anthropology of hunter gatherers will continue to deliver penetrating insights into the factors that underlie all human diversity *Darwin's Legacy:*

The Status of Evolutionary Archaeology in Argentina Marcelo Cardillo, Hernán Muscio, 2016-01-22 This book collects the contributions to the symposium The current state of evolutionary archeology in Argentina that was held in Buenos Aires for celebrating the 200th anniversary of Charles Darwin's birth and the 150th anniversary of the publication of *On the Origin of Species*

Handbook of Evolutionary Research in Archaeology Anna Marie Prentiss, 2019-06-03 Evolutionary Research in Archaeology seeks to provide a comprehensive overview of contemporary evolutionary research in archaeology The book will provide a single source for introduction and overview of basic and advanced evolutionary concepts and research programs in archaeology Content will be organized around four areas of critical research including microevolutionary and macroevolutionary process human ecology studies evolutionary ecology demography and niche construction and evolutionary cognitive archaeology Authors of individual chapters will address theoretical foundations history of research contemporary contributions and debates and implications for the future for their respective topics As appropriate authors present or discuss short empirical case studies to illustrate key arguments

Tracing the Indo-Europeans Birgit Anette Olsen, Thomas Olander, Kristian Kristiansen, 2019-08-23 Recent developments in aDNA has reshaped our understanding of later European prehistory and at the same time also opened up for more fruitful collaborations between archaeologists and historical linguists Two revolutionary genetic studies published independently in *Nature* 2015 showed that prehistoric Europe underwent two successive waves of migration one from Anatolia consistent with the introduction of agriculture and a later influx from the Pontic Caspian steppes which without any reasonable doubt pinpoints the archaeological Yamnaya complex as the cradle of Core Indo European languages Now for the first time when the preliminaries are clear it is possible for the fields of genetics archaeology and historical linguistics to cooperate in a constructive fashion to refine our knowledge of the Indo European homeland migrations society and language For the historical comparative linguists this opens up a wealth of exciting perspectives and new working fields in the intersections between linguistics and neighbouring disciplines for the archaeologists and geneticists on the other hand the linguistic contributions help to endow the material findings with a voice from the past The present selection of papers illustrate the importance of an open interdisciplinary discussion which will gradually help us in our quest of Tracing the Indo Europeans

New Perspectives on Old Stones Stephen Lycett, Parth Chauhan, 2010-09-05 As the study of Palaeolithic technologies moves towards a more analytical approach it is necessary to determine a consistent procedural framework The contributions to this timely and comprehensive volume do just that This volume incorporates a broad chronological and geographical range of Palaeolithic material from the Lower to Upper Palaeolithic The focus of this volume is to provide an analysis of Palaeolithic technologies from a quantitative empirical perspective As new techniques particularly quantitative methods for analyzing Palaeolithic technologies gain popularity this work provides case studies showcasing these new techniques Employing diverse case studies and utilizing multivariate approaches morphometrics model based approaches phylogenetics cultural transmission studies and experimentation this

volume provides insights from international contributors at the forefront of recent methodological advances

Understanding Cultural Transmission in Anthropology Roy Ellen, Stephen J. Lycett, Sarah E. Johns, 2013-08-01 The concept of cultural transmission is central to much contemporary anthropological theory since successful human reproduction through social systems is essential for effective survival and for enhancing the adaptiveness of individual humans and local populations Yet what is understood by the phrase and how it might best be studied is highly contested This book brings together contributions that reflect the current diversity of approaches from the fields of biology primatology palaeoanthropology psychology social anthropology ethnobiology and archaeology to examine social and cultural transmission from a range of perspectives and at different scales of generalization The comprehensive introduction explores some of the problems and connections Overall the book provides a timely synthesis of current accounts of cultural transmission in relation to cognitive process practical action and local socio ecological context while linking these with explanations of longer term evolutionary trajectories

The Oxford Handbook of Prehistoric Oceania Ethan E. Cochrane, Terry L. Hunt, 2018 Oceania was the last region on earth to be permanently inhabited with the final settlers reaching Aotearoa New Zealand approximately AD 1300 This is about the same time that related Polynesian populations began erecting Easter Island's gigantic statues farming the valley slopes of Tahiti and similar islands and moving finely made basalt tools over several thousand kilometers of open ocean between Hawai'i the Marquesas the Cook Islands and archipelagos in between The remarkable prehistory of Polynesia is one chapter of Oceania's human story Almost 50 000 years prior people entered Oceania for the first time arriving in New Guinea and its northern offshore islands shortly thereafter a biogeographic region labelled Near Oceania and including parts of Melanesia Near Oceania saw the independent development of agriculture and has a complex history resulting in the greatest linguistic diversity in the world Beginning 1000 BC after millennia of gradually accelerating cultural change in Near Oceania some groups sailed east from this space of inter visible islands and entered Remote Oceania rapidly colonizing the widely separated separated archipelagos from Vanuatu to Samoa with purposeful return voyages and carrying an intricately decorated pottery called Lapita From this common cultural foundation these populations developed separate but occasionally connected cultural traditions over the next 3000 years Western Micronesia the archipelagos of Palau Guam and the Marianas was also colonized around 1500 BC by canoes arriving from the west beginning equally long sequences of increasingly complex social formations exchange relationships and monumental constructions All of these topics and others are presented in The Oxford Handbook of Prehistoric Oceania written by Oceania's leading archaeologists and allied researchers Chapters describe the cultural sequences of the region's major island groups provide the most recent explanations for diversity and change in Oceanic prehistory and lay the foundation for the next generation of research

The Evolution of Culture Stefan Linquist, 2017-03-02 Recent years have seen a transformation in thinking about the nature of culture Rather than viewing

culture in opposition to biology a growing number of researchers now regard culture as subject to evolutionary processes Recent developments in this field have shifted some of the traditional academic fault lines Alliances are forming between researchers trained in anthropology evolutionary biology psychology and philosophy Meanwhile several distinct schools of thought have appeared which differ in their vision of what an evolutionary approach to culture should look like This volume contains some of the most influential publications on these subjects from the past few decades A theoretical background chapter and critical introduction identify the core issues at stake in the new study of cultural evolution These chapters are followed by sections on each of the four dominant approaches the phylogenetic approach memetics dual inheritance theory and niche construction Following these are two chapters on closely related topics the psychological mechanisms of culture and the existence of culture in non human animals Overall this volume provides an up to date overview of some of the most exciting trends in contemporary evolutionary thought

Lithic Technological Systems and Evolutionary Theory Society for American Archaeology. Annual Meeting, 2015-01-22 This collection of essays brings together several different evolutionary perspectives to demonstrate how lithic technological systems are a byproduct of human behavior The essays cover a range of topics including human behavioral ecology cultural transmission phylogenetic analysis macroevolution and various applications of evolutionary ecology

Distant Reading Franco Moretti, 2013-06-04 How does a literary historian end up thinking in terms of z scores principal component analysis and clustering coefficients The essays in Distant Reading led to a new and often contested paradigm of literary analysis In presenting them here Franco Moretti reconstructs his intellectual trajectory the theoretical influences over his work and explores the polemics that have often developed around his positions From the evolutionary model of Modern European Literature through the geo cultural insights of Conjectures of World Literature and Planet Hollywood to the quantitative findings of Style inc and the abstract patterns of Network Theory Plot Analysis the book follows two decades of conceptual development organizing them around the metaphor of distant reading that has come to define well beyond the wildest expectations of its author a growing field of unorthodox literary studies

Multidisciplinary Approaches to the Study of Stone Age Weaponry Radu Iovita, Katsuhiko Sano, 2016-05-28 The objective of this volume is to showcase the contemporary state of research on recognizing and evaluating the performance of stone age weapons from a variety of viewpoints including investigating their cognitive and evolutionary significance New archaeological finds and experimental studies have helped to bring this subject back to the forefront of human origins research In the last few years investigations have expanded beyond examining the tools themselves to include studies of damage caused by projectile weapons on animal and hominin bones and skeletal asymmetries in ancient hominin populations Only recently has there been a growing interest in controlled and replicative experiments Through this book readers will be updated in the state of knowledge through a multidisciplinary scientific reconstruction of prehistoric weapon use and its implications Contributions from expert authors are organized into three themed parts recognizing weapon use

experimental and archaeological studies of impact traces performance of weapon systems factors influencing penetration depth etc and behavioral and evolutionary ramifications cognitive and ecological effects of using different weapons

International Handbook of Historical Archaeology Teresita Majewski, David Gaimster, 2009-06-07 In studying the past archaeologists have focused on the material remains of our ancestors Prehistorians generally have only artifacts to study and rely on the diverse material record for their understanding of past societies and their behavior Those involved in studying historically documented cultures not only have extensive material remains but also contemporary texts images and a range of investigative technologies to enable them to build a broader and more reflexive picture of how past societies communities and individuals operated and behaved Increasingly historical archaeology refers not to a particular period place or a method but rather an approach that interrogates the tensions between artifacts and texts irrespective of context In short historical archaeology provides direct evidence for how humans have shaped the world we live in today Historical archaeology is a branch of global archaeology that has grown in the last 40 years from its North American base into an increasingly global community of archaeologists each studying their area of the world in a historical context Where historical archaeology started as part of the study of the post Columbian societies of the United States and Canada it has now expanded to interface with the post medieval archaeologies of Europe and the diverse post imperial experiences of Africa Latin America and Australasia The 36 essays in the *International Handbook of Historical Archaeology* have been specially commissioned from the leading researchers in their fields creating a wide ranging digest of the increasingly global field of historical archaeology The volume is divided into two sections the first reviewing the key themes issues and approaches of historical archaeology today and the second containing a series of case studies charting the development and current state of historical archaeological practice around the world This key reference work captures the energy and diversity of this global discipline today

Cultural Phylogenetics Larissa Mendoza Straffon, 2016-02-10 This book explores the potential and challenges of implementing evolutionary phylogenetic methods in archaeological research by discussing key concepts and presenting concrete applications of these approaches The volume is divided into two parts The first covers the theoretical and conceptual implications of using evolution based models in the sociocultural domain illustrates the sorts of questions that these methods can help answer and invites the reader to reflect on the opportunities and limitations of these perspectives The second part comprises case studies that address relevant empirical issues such as inferring patterns and rates of cultural transmission detecting selective pressures in cultural evolution and explaining the nature of cultural variation This book will appeal to archaeologists interested in applying evolutionary thinking and inferential methods to their field and to anyone interested in cultural evolution studies

Essential Building Blocks of Human Nature Ulrich J. Frey, Charlotte Störmer, Kai P. Willführ, 2010-11-08 To understand why we humans are as we are it is necessary to look at the essential building blocks that comprise our nature The foundations of this structure are our evolutionary origins as primates and our social roots Upon

these rest features such as our emotions language and aesthetic preferences with our self perceptions self deceptions and thirst for knowledge right at the top The unifying force holding these blocks together is evolutionary theory Evolution provides a deeper understanding of human nature and in particular of the common roots of these different perspectives To build a reliable and coherent model of man leading authors from fields as diverse as primatology anthropology neurobiology and philosophy have joined forces to present essays each describing their own expert perspective Together they provide a convincing and complete picture of our own human nature

Decoding **Mapping Our Ancestors Phylogenetic Methods In Anthropology And**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mapping Our Ancestors Phylogenetic Methods In Anthropology And**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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