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This idea is reflected in the recently published volume *Cultural Phylogenetics: Concepts and Applications in Archaeology*, which assembles seven articles dealing both theoretically and practically

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with the prospects and challenges of phylogenetic methods in archaeology.

Cultural Phylogenetics: Concepts and Applications in ...

Buy Cultural Phylogenetics: Concepts and Applications in Archaeology (Interdisciplinary Evolution Research) 1st ed. 2016 by Larissa Mendoza Straffon (ISBN: 9783319259260) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Cultural Phylogenetics: Concepts and Applications in ...

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 ...

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Cultural Phylogenetics: Concepts and Applications in Archaeology (Interdisciplinary Evolution Research Book 4) eBook: Larissa Mendoza

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Cultural Phylogenetics: Concepts and Applications in ...

The use of methods developed in evolutionary biology to model the processes of cultural change and innovation that amount to cultural evolution is becoming an increasingly widespread practice in the sociocultural sciences. The purpose of this book is

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Phylogenetic approaches applied to scientific fields other than biology have received much interest of late, and a wide range of papers has been published in which phylogenetic methods are applied to a diverse range of fields, including linguistics,

Book Review: Cultural Phylogenetics: Concepts and ...

Cultural Phylogenetics: Concepts and Applications in Archaeology (Interdisciplinary Evolution Research #4) ... 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 ...

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Phylogenetics is the study of evolutionary relationships among biological entities - often species, individuals or genes (which may be referred to as taxa). The major elements of phylogenetics are summarised in Figure 1 below. Figure 1 Elements of phylogenetics. Typically phylogeneticists study one of the following types of question: • What are the evolutionary relationships or histories ...

What is phylogenetics? | EMBL-EBI Train online

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Ecological Concepts, Principles and Applications to ...

Cultural artefacts, like genes and languages, reflect their history. The methodology of inference of that history, however, has been a contentious question. Recent applications of biological phylogenetic methodology to infer historical patterns of material culture are often explicitly justified on the grounds that essentially similar processes underlie evolution in both biological and material ...

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Phylogenetics and Material Cultural Evolution | Current ...

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This paper is a review of evolutionary thought in archaeology. It explains why and how the application of Darwinian evolutionary theory to archaeology is possible and, moreover, useful. It expounds what this scientific field gains from considering

(PDF) García Rivero, D. (2016): Darwinian archaeology and ...

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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...

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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.

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. 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. Cultural Phylogenetics, assembles seven articles dealing both theoretically and practically with the prospects and challenges of phylogenetic methods in archaeology. I consider the book to be an interesting contribution,

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worth being read by everyone who is interested in quantitative methods applied to historical sciences.

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.

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

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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. ?

The evolutionary history of species is traditionally represented using a rooted phylogenetic tree. However, when reticulate events such as hybridization, horizontal gene transfer or recombination are believed to be involved, phylogenetic networks that can accommodate non-treelike evolution have an important role to play. This book provides the first interdisciplinary overview of phylogenetic networks. Beginning with a concise introduction to both phylogenetic trees and phylogenetic networks, the fundamental concepts and results are then presented for both rooted and unrooted phylogenetic networks. Current approaches and algorithms available for computing phylogenetic networks from different types of datasets are then discussed,

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accompanied by examples of their application to real biological datasets. The book also summarises the algorithms used for drawing phylogenetic networks, along with the existing software for their computation and evaluation. All datasets, examples and other additional information and links are available from the book's companion website at www.phylogenetic-networks.org.

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

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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.

This workshop questioned the reliability of pottery as crisis indicator within the archaeological data set. More particularly,

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following the perspective of archaeological and anthropological research that assesses pottery technology as a social product, there is an interest in addressing the social and cultural aspects of technological change...

Widens traditional concepts of forensic science to include humanitarian, social, and cultural aspects Using the preservation of the dignity of the deceased as its foundation, Forensic Science and Humanitarian Action: Interacting with the Dead and the Living is a unique examination of the applications of humanitarian forensic science. Spanning two comprehensive volumes, the text is sufficiently detailed for forensic practitioners, yet accessible enough for non-specialists, and discusses both the latest technologies and real-world interactions. Arranged into five sections, this book addresses the 'management of the dead' across five major areas in humanitarian forensic science. Volume One presents the first three of these areas: History, Theory, Practice, and Legal Foundation; Basic Forensic Information to Trace Missing Persons; and Stable Isotopes Forensics. Topics covered include: Protection of The Missing and the Dead Under International Law Social, Cultural and Religious Factors in Humanitarian Forensic Science Posthumous Dignity and the Importance in Returning Remains of the Deceased The New Disappeared - Migration and

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Forensic Science Stable Isotope Analysis in Forensic Anthropology Volume Two covers two further areas of interest: DNA Analysis and the Forensic Identification Process. It concludes with a comprehensive set of case studies focused on identifying the deceased, and finding missing persons from around the globe, including: Forensic Human Identification from an Australian Perspective Skeletal Remains and Identification Processing at the FBI Migrant Deaths along the Texas/Mexico Border Humanitarian Work in Cyprus by The Committee on Missing Persons (CMP) Volcán De Fuego Eruption - Natural Disaster Response from Guatemala Drawing upon a wide range of contributions from respected academics working in the field, Forensic Science and Humanitarian Action is a unique reference for forensic practitioners, communities of humanitarian workers, human rights defenders, and government and non-governmental officials.

Travellers in Time re-evaluates the extent to which the earliest Mediterranean civilizations were affected by population movement. It critiques both traditional culture-history-grounded notions of movement in the region as straightforwardly transformative, and the processual, systemic models that have more recently replaced this view, arguing that newer scholarship too often pays limited attention to the specific encounters, experiences and agents involved in travel.

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By assessing a broad range of recent archaeological and ancient textual data from the Aegean and central and east Mediterranean via five comprehensive studies, this book makes a compelling case for rethinking issues such as identity, agency, materiality and experience through an understanding of movement as transformative. This innovative and timely study will be of interest to advanced undergraduates, postgraduate students and scholars in the fields of Aegean/Mediterranean prehistory and Classical archaeology, as well as anyone interested in ancient Aegean and Mediterranean culture.

Recent neuroscience research makes it clear that human biology is cultural biology - we develop and live our lives in socially constructed worlds that vary widely in their structure values, and institutions. This integrative volume brings together interdisciplinary perspectives from the human, social, and biological sciences to explore culture, mind, and brain interactions and their impact on personal and societal issues. Contributors provide a fresh look at emerging concepts, models, and applications of the co-constitution of culture, mind, and brain. Chapters survey the latest theoretical and methodological insights alongside the challenges in this area, and describe how these new ideas are being applied in the sciences, humanities, arts, mental health, and everyday life. Readers

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will gain new appreciation of the ways in which our unique biology and cultural diversity shape behavior and experience, and our ongoing adaptation to a constantly changing world.

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