

## Cultural Phylogenetics Concepts And Applications In Archaeology Interdisciplinary Evolution Research

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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 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 ...

### Cultural Phylogenetics - Concepts and Applications in ...

Cultural Phylogenetics: Concepts and Applications in Archaeology (Interdisciplinary Evolution Research Book 4) eBook: Larissa Mendoza Straffon: Amazon.co.uk: Kindle Store

### 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

### (PDF) Cultural Phylogenetics: Concepts and Applications in ...

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 ...

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### Cultural Phylogenetics | SpringerLink

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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### Cultural Phylogenetics: Concepts and Applications in ...

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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 ...

### Phylogenetics and Material Cultural Evolution | Current ...

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### Cultural Phylogenetics: Concepts and Applications in ...

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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### Cultural Phylogenetics: Concepts and Applications in ...

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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 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.

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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. ?

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

Virtually all aspects of human behavior show enormous variation both within and between cultural groups, including material culture, social organization and language. Thousands of distinct cultural groups exist: about 6,000 languages are spoken today, and it is thought that a far greater number of languages existed in the past but became extinct. Using a Darwinian approach, this book seeks to explain this rich cultural variation. There are a number of theoretical reasons to believe that cultural diversification might be tree-like, that is phylogenetic: material and non-material culture is clearly inherited by descendants, there is descent with modification, and languages appear to be hierarchically related. There are also a number of theoretical reasons to believe that cultural evolution is not tree-like: cultural inheritance is not Mendelian and can indeed be vertical, horizontal or oblique, evidence of borrowing abounds, cultures are not necessarily biological populations and can be transient and complex. Here, for the first time, this title tackles these questions of cultural evolution empirically and quantitatively, using a range of case studies from Africa, the Pacific, Europe, Asia and America. A range of powerful theoretical tools developed in evolutionary biology is used to test detailed hypotheses about historical patterns and adaptive functions in cultural evolution. Evidence is amassed from archaeological, linguist and cultural datasets, from both recent and historical or pre-historical time periods. A unifying theme is that the phylogenetic approach is a useful and powerful framework, both for describing the evolutionary history of these traits, and also for testing adaptive hypotheses about their evolution and co-evolution. Contributors include archaeologists, anthropologists, evolutionary biologists and linguists, and this book will be of great interest to all those involved in these areas.

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 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. 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.

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, 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](http://www.phylogenetic-networks.org).

Offering a rich diversity of models, Bayesian phylogenetics allows evolutionary biologists, systematists, ecologists, and epidemiologists to obtain answers to very detailed phylogenetic questions. Suitable for graduate-level researchers in statistics and biology, Bayesian Phylogenetics: Methods, Algorithms, and Applications presents a snapshot of current trends in Bayesian phylogenetic research. Encouraging interdisciplinary research,

this book introduces state-of-the-art phylogenetics to the Bayesian statistical community and, likewise, presents state-of-the-art Bayesian statistics to the phylogenetics community. The book emphasizes model selection, reflecting recent interest in accurately estimating marginal likelihoods. It also discusses new approaches to improve mixing in Bayesian phylogenetic analyses in which the tree topology varies. In addition, the book covers divergence time estimation, biologically realistic models, and the burgeoning interface between phylogenetics and population genetics.

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