

Style, Function, Transmission

EVOLUTIONARY
ARCHAEOLOGICAL
PERSPECTIVES

Edited by
Michael J. O'Brien
and
R. Lee Lyman

FOUNDATIONS OF ARCHAEOLOGICAL INQUIRY

Style Function Transmission Evolutionary Archaeological Perspectives

Susan M. Alt



Style Function Transmission Evolutionary Archaeological Perspectives:

Style, Function, Transmission Michael John O'Brien, R. Lee Lyman, 2003 Darwin's theory of evolutionary descent with modification rests in part on the notion that there is heritable continuity affected by transmission between ancestor and descendant. It is precisely this continuity that allows one to trace phylogenetic histories between fossil taxa of various ages and recent taxa. Darwin was clear that were an analyst to attempt such tracings then the anatomical characters of choice are those least influenced by natural selection or what are today referred to as adaptively neutral traits. The transmission of these traits is influenced solely by such mechanisms as drift and not by natural selection. The application of Darwin's theory to archaeological phenomena requires that the theory be retooled to accommodate artifacts. One aspect that has undergone this retooling concerns cultural transmission, the mechanism that affects heritable continuity between cultural phenomena. Archaeologists have long traced what is readily interpreted as heritable continuity between artifacts but the theory underpinning their tracings is seldom explicit. Thus what have been referred to as artifacts styles underpin such tracings because styles are adaptively neutral. Other traits are referred to as functional. In their introduction to *Style Function Transmission* Michael O'Brien and R. Lee Lyman outline in detail the interrelations of a theory of cultural descent with modification and the concepts of drift, style, and function. The chapters in the volume specifically address the issues of selection and drift and their relation to style and function. In non-polemical presentations contributors specify empirical implications of aspects of cultural transmission for evolutionary lineages of artifacts and then present archaeological data for those implications.

[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.

Style, Function, Transmission Michael John O'Brien, R. Lee Lyman, 2003 Darwin's theory of evolutionary descent with modification rests in part on the notion that there is heritable continuity affected by transmission between ancestor and descendant. It is precisely this continuity that allows one to trace phylogenetic histories between fossil taxa of various ages and recent taxa. Darwin was clear that were an analyst to attempt such tracings then the anatomical characters of choice are those least influenced by natural selection or what are today referred to as adaptively neutral traits. The transmission of these traits is influenced solely by such mechanisms as drift and not by natural selection. The application of Darwin's theory to archaeological phenomena requires that the theory be retooled to accommodate artifacts. One aspect that has undergone this retooling concerns cultural transmission, the mechanism that affects heritable continuity between cultural phenomena. Archaeologists have long traced what is readily interpreted as heritable continuity between artifacts but the theory underpinning their tracings is seldom explicit. Thus what have been referred to as artifacts styles underpin such

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Darwinian Sociocultural Evolution Marion Blute, 2010-01-14 Social scientists can learn a lot from evolutionary biology from systematics and principles of evolutionary ecology to theories of social interaction including competition conflict and cooperation as well as niche construction complexity eco evo devo and the role of the individual in evolutionary processes Darwinian sociocultural evolutionary theory applies the logic of Darwinism to social learning based cultural and social change With a multidisciplinary approach for graduate biologists philosophers sociologists anthropologists social psychologists archaeologists linguists economists political scientists and science and technology specialists the author presents this model of evolution drawing on a number of sophisticated aspects of biological evolutionary theory The approach brings together a broad and inclusive theoretical framework for understanding the social sciences which addresses many of the dilemmas at their forefront the relationship between history and necessity conflict and cooperation the ideal and the material and the problems of agency subjectivity and the nature of social structure

Bronze Age China Wang Ying, 2010-06-09 Style in Chinese art and archaeology encompass complex meanings that beyond studies of decorative motifs design and traditional sense on artistic style This anthology considers function behavior manufacture usage design material and context are expanded definition of style Examine style in a larger context assists in investigating the aspects of life style gender social structure labor division and craft specialization in a society explains the social strata rituals and technical traditions Scholars of this volume come from varied backgrounds intends to achieve an understanding of the concept of material and style of Bronze Age while current excavated data are updated everyday in this particular field

People and Things James M. Skibo, Michael Brian Schiffer, 2008-03-12 The study of the human made world whether it is called artifacts material culture or technology has burgeoned across the academy Archaeologists have for centuries led the way and today offer investigators myriad programs and conceptual frameworks for engaging the things ordinary and extraordinary of everyday life This book is an attempt by practitioners of one program Behavioral Archaeology to furnish between two covers some of our basic principles heuristic tools and illustrative case studies Our greater purpose however is to engage the ideas of two competing programs agency practice and evolution in hopes of initiating a dialog We are convinced that there is enough overlap in goals interests and conceptions among these programs to warrant guarded optimism that a more encompassing more coherent framework for studying the material world can result from a concerted effort to forge a higher level synthesis However in engaging agency practice and evolution in Chap 2 we are not reticent to point out conflicts

between Behavioral Archaeology and these programs This book will appeal to archaeologists and anthropologists as well as historians sociologists and philosophers of technology Those who study science technology society interactions may also encounter useful ideas Finally this book is suitable for upper division and graduate courses on anthropological theory archaeological theory and the study of technology Journal of Field Archaeology Association for Field Archaeology,2003

Archaeology as a Process Michael John O'Brien,R. Lee Lyman,Michael B. Schiffer,2005 The publication in 1962 of Lew Binford's paper Archaeology as Anthropology is generally considered to mark the birth of processualism a critical turning point in American archaeology In the hands of Binford and other young University of Chicago graduates of the 1960s this new archaeology became the mainstream approach in the U S The realignment that the processualists proposed was so thorough that its effects are still being felt today Predictably processualism also spun off a number of other isms several of which grew up to challenge its supremacy Archaeology as a Process traces the intellectual history of Americanist archaeology in terms of the research groups that were at the forefront of these various approaches concentrating as much on the archaeologists as it does on method and theory thus setting it apart from other treatments published in the last fifteen years Peppered with rare photographs of well known archaeologists in some interesting settings the book documents the swirl and excitement of archaeological controversy for the past forty years with over 1 600 references and an in depth treatment of all the major intellectual approaches The contributors examine how archaeology is conducted the ins and outs of how various groups work to promote themselves and how personal ambition and animosities can function to further rather than retard the development of the discipline *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 **Cladistics and Archaeology** Michael John O'Brien,R. Lee Lyman,2003 Review In Cladistics and Archaeology Michael O'Brien and Lee Lyman explore the application of cladistics to archaeology by considering artifacts as human phenotypic characters Their fundamental premise is that particular kinds of characters style artifact type tool can be used to create historically meaningful nested taxa Further they argue that this approach offers a means of building connections and life histories of archaeological artifacts BOOK JACKET

Essential Tensions in Archaeological Method and Theory Todd L. VanPool,Christine S. VanPool,2003 Archaeological theory some say seems to have fragmented into a thousand fundamentalisms By working on a broader set of empirical issues than ever before archaeologists are indeed applying and refining a variety of perspectives Yet the editors of this volume make a case that it is appropriate for archaeologists to use a logical variety of theoretical structures to answer different kinds of questions combining approaches as necessary In that spirit of plurality contributors to this volume identify an important theoretical or methodological problem and present an argument regarding its solution They also provide a critical evaluation

of the current state of archaeological method and theory illustrating that such recurrent issues as the role of agency and the importance of social considerations in the formation of archaeological research dominate current theoretical development By presenting both the range of important questions and a variety of answers this volume contributes to the essential tension that will further the growth of archaeological theory *Investigating Prehistoric Hunter-gatherer Identities* H. L. Cobb,2005 Edited by H L Cobb F Coward L Grimshaw and S Price This volume stems from sessions at the 2004 Theoretical Archaeology Conference at Glasgow University entitled Hunter Gatherers in Early Prehistory and Hunting for Meaning Interpretive Approaches to the Mesolithic The sessions came about as a response to a continuing lack of appreciation of new developments in theoretical approaches to the archaeology of prehistoric hunter gatherers both in the Pleistocene and Holocene *The SAA Archaeological Record* ,2003 The magazine of the Society for American Archaeology Quality Management in Archaeology W. J. H. Willems,Monique Henriëtte van den Dries,2007 Quality Management in Archaeology deals with the effects of the profound changes that have had an impact on the discipline of archaeology all over the world In North America in Europe and increasingly in other parts of the world new legislation and international treaties have changed its position in society What was once a university based research activity by a limited number of academics has become a socially relevant field with many practitioners that are mostly employed in some branch of archaeological resource management Archaeology has been successful in persuading governments and the general public that more should be done to preserve archaeological heritage and to investigate it where it will be irretrievably lost The scale and frequency of archaeological work has increased vastly at considerable cost to society Consequently there is pressure to do the work efficiently and economically At the same time academic standards have to be maintained to assure that the end result will be the relevant knowledge about the past that society pays for Different countries have found different approaches and solutions to deal with this dilemma Sometimes commercial archaeology is allowed sometimes it is not but in every national context quality has to be managed in some way This book presents a survey by specialists from the US Canada and several European countries on how this is done what the principles are and also the priorities It will be useful for anyone interested in archaeological resource management **Style and Function** Teresa D. Hurt,Gordon Rakita,2000-10-30 The topics of style and function within evolutionary archaeology have been the subject of great debate in the field of archaeology in general over the past two decades Evolutionary archaeologists have a unique perspective on these concepts one that has sometimes been misunderstood by archaeologists working within other theoretical perspectives The dichotomy between style and function was first formulated in the late 1970s by Robert Dunnell and remains axiomatic within the theoretical perspective of evolutionary archaeology The original definitions of style and function were grounded in biological evolutionary concepts regarding neutral variation versus variation that is subject to natural selection Several chapters expand upon these concepts and explore how Darwinian evolutionary theory may be used to understand the archaeological record Other chapters

demonstrate this application through empirical case studies Dunnell provides a foreword introducing and re examining his original thesis This volume is the only text devoted to the topic of style and function within the literature of evolutionary archaeology It provides not only theoretical discussions and augmentation but also significant historical background regarding the development of the style function distinction within archaeology Moreover it presents several case studies that provide examples of how evolutionary style and function may be applied to the prehistoric record

Archaeological Concepts for the Study of the Cultural Past Alan P. Sullivan,2008 An assembly of rhetoric on the tension between archaeology and cultural anthropology the former often considered merely a sub field of the latter and an examination of the degree to which the relationship between the two studies may have actually inhibited archaeological investigations

Complex Systems and Archaeology R. Alexander Bentley,Herbert D. G. Maschner,2003 Complexity science transects many fields ranging from physics to economics to biology Its focus is the study of systems of interacting factors which has lately been extended to include behavior in human societies In prehistoric societies whether these agents are defined at the scale of individuals groups households or villages all agents are connected in such a way that change in the actions of one affects many others *Complex Systems and Archaeology* presents a useful introduction to complexity theory followed by a series of case studies in which human societies and environments are viewed as open systems into and out of which matter or energy can flow Examples of such systems include the introduction of new crops the creation of new artifacts or the flux of products in a market This volume will have important implications for how archaeologists understand the dynamics of culture change and how they think about chronological stages unique events and the role of human agents

Pot/potter Entanglements and Networks of Agency in Late Woodland Period (c. AD 900-1300) Southwestern Ontario, Canada

Christopher M. Watts,2008 Complementary strands of thought are here woven together to further the notion that people and things are entangled in interdependent webs of action and a view of social life as engendered by the ways we apprehend and interact with the material world It is argued that material culture can be considered agential insofar as it serves to condition certain sensory responses from its users An analysis of Late Woodland period pottery production in southwestern Ontario provides a case study over 800 earthenware vessels are analyzed from Iroquoian and Algonquian Western Basin sites The results suggest that Iroquoian potting practices were organized around a design repertoire to which most potters subscribed These patterns contrast with the Western Basin assemblages which hint at a greater degree of design heterogeneity and a wider array of choice The discordant nature of Western Basin decorative practices points to a form of human non human interaction markedly different from the milieu experienced by Iroquoian artisans

Differential Persistence of Variation in Prehistoric Milling Tools from the Middle Rio Puerco Valley, New Mexico Jesse B. Murrell,2007 There is a long standing interest in use efficiency and evolution in prehistoric ground stone tool research A design and performance analysis conducted with replica tools examines a number of milling tool performance characteristics including use efficiency ease of

manufacture and ease of maintenance as well as their interplay in the design process This analysis shows that raw material and use surface area affect use efficiency A paradigmatic artefact classification documents the variation in prehistoric manos from archaeological sites in the Middle Rio Puerco Valley of New Mexico [Ancient Complexities](#) Susan M. Alt,2010 A current overview of what is meant by cultural complexity and how archaeologists study the development of complex societies in North America

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