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make in Bayesian

phylogenetics today

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Topics will include population and community ecology, epidemiology and evolutionary theory ... Finally, students will map immune mechanisms onto host phylogenies to understand the order in which ...

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Ecology and Evolutionary Biology

Modern snakes evolved from ancestors that lived side by side with the dinosaurs and that likely fed mainly on insects and lizards. Then a miles-wide asteroid wiped out nearly all the dinosaurs and ...

Snakes Diversified Explosively After Mass

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Extinction Where Dinosaurs Were Wiped Out

Modern snakes evolved from ancestors that lived side by side with the dinosaurs and that likely fed mainly on insects and lizards.

**Mammals on the
menu: Snake dietary
diversity exploded
after mass extinction**

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66 million years ago

One influential perspective seeks to explain species richness at the community level in terms of ... and sympatric models in which selection and ecology are necessarily involved in the formation ...

**The Geography and
Ecology of**

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Diversification in Neotropical Freshwaters

His interests include population and community ecology, evolutionary ecology ... succession, landscape ecology, and using phylogenies to reconstruct probable ancestral states and deduce the course of ...

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Eric R Pianka

The "moving wall" represents the time period between the last issue available in JSTOR and the most recently published issue of a journal. Moving walls are generally represented in years. In rare ...

**Annual Review of
Ecology, Evolution,**

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We are seeking a highly motivated postdoctoral fellow interested in community ecology, biogeography ... and species' ecological attributes and evolutionary relationships (phylogenies) to understand ...

Fellowship Description

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Forest Ecology and
Management 493 ...

Exploring evolutionarily
meaningful vegetation
definitions in the
tropics: a community
phylogenetic approach.
In pp. 239-260 (Chapter
9), Forests and Global ...

Publications with links to data

Students look at the
evolutionary ecology of

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mechanisms used by
immune systems to
recognize and kill
parasites, finding
similarities across
animal taxa. Finally,
students will map
immune mechanisms ...

Global Health and Health Policy

biogeography and
ecology. A lack of
molecular data for the

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core Corvoidea has limited previous ecological, evolutionary and biogeographical research. Molecular phylogenies now exist for roughly 85% of ...

Passerine bird evolution and biogeography

We are focusing on the ecology, biogeography and taxonomy of poorly

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known but ...

Taxonomic revisions of
critical species groups
using molecular
phylogenies, morpho-
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and chemical ...

Freshwater and coastal lichens

Disease Ecology is a
rapidly growing
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that examines basic and

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Applied questions about
how ecology of hosts
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Dozens of
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overall arthropod
community structure.
Genetic aspects ...

Dimensions US-China: Collaborative Research: Allosomes and dioecy in plants as drivers of multi-level biodiversity

de Paula, Angélica A.
Ott, Paulo H. Tavares,
Maurício Santos,
Roberta A. and Silva-

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Souza, Ângela T. 2020.

Host–parasite
relationship in

Magellanic Penguins
(*Spheniscus*
magellanicus) during
their long ...

Parasite Diversity and Diversification

The study, “Ecological
Selectivity and the
Evolution of
Mammalian Substrate

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Preference Across the K-
Pg Boundary,”
published October 11 in
the journal Ecology and
Evolution. The earliest
...

Over the past decade,
ecologists have
increasingly embraced
phylogenetics, the study
of evolutionary

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relationships among species. As a result, they have come to discover the field's power to illuminate present ecological patterns and processes. Ecologists are now investigating whether phylogenetic diversity is a better measure of ecosystem health than more traditional metrics like species diversity,

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whether it can predict the future structure and function of communities and ecosystems, and whether conservationists might prioritize it when formulating conservation plans. In *Phylogenetic Ecology*, Nathan G. Swenson synthesizes this nascent field's major conceptual, methodological, and empirical developments

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to provide students and practicing ecologists with a foundational overview. Along the way, he highlights those realms of phylogenetic ecology that will likely increase in relevance--such as the burgeoning subfield of phylogenomics--and shows how ecologists might lean on these new perspectives to inform

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Phylogenies in Ecology is the first book to critically review the application of phylogenetic methods in ecology, and it serves as a primer to working ecologists and students of ecology wishing to understand these methods. This book demonstrates how

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phylogenetic

information is

transforming ecology by

offering fresh ways to

estimate the similarities

and differences among

species, and by

providing deeper,

evolutionary-based

insights on species

distributions,

coexistence, and niche

partitioning. Marc

Cadotte and Jonathan

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Davies examine this emerging area's explosive growth, allowing for this new body of hypotheses testing. Cadotte and Davies systematically look at all the main areas of current ecophylogenetic methodology, testing, and inference. Each chapter of their book covers a unique topic,

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emphasizes key assumptions, and introduces the appropriate statistical methods and null models required for testing phylogenetically informed hypotheses.

The applications presented throughout are supported and connected by examples relying on real-world data that have been

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analyzed using the open-source programming language, R. Showing how phylogenetic methods are shedding light on fundamental ecological questions related to species coexistence, conservation, and global change, *Phylogenies in Ecology* will interest anyone who thinks that evolution might be

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"Our goal with this special issue is to explore the practical interchange of concepts between evolutionary biology and community ecology, highlighting studies that both use phylogenetic information and consider the community context of individual

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organisms, and that
represent a range of
disciplines, from
microbiology and
parasitology to
ornithology"--P. S1.

Functional and
Phylogenetic Ecology in
R is designed to teach
readers to use R for
phylogenetic and
functional trait analyses.
Over the past decade, a

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A dizzying array of tools and methods were generated to incorporate phylogenetic and functional information into traditional ecological analyses.

Increasingly these tools are implemented in R, thus greatly expanding their impact.

Researchers getting started in R can use this volume as a step-by-step

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entryway into community

phylogenetic and
functional analyses for
ecology in R. More

advanced users will be
able to use this volume
as a quick reference to
understand particular
analyses. The volume
begins with an

introduction to the R
environment and
handling relevant data in
R. Chapters then cover

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phylogenetic and
functional metrics of
biodiversity; null
modeling and
randomizations for
phylogenetic and
functional trait analyses;
integrating phylogenetic
and functional trait
information; and
interfacing the R
environment with a
popular C-based
program. This book

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presents a unique approach through its focus on ecological analyses and not macroevolutionary analyses. The author provides his own code, so that the reader is guided through the computational steps to calculate the desired metrics. This guided approach simplifies the work of determining

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which package to use
for any given analysis.
Example datasets are
shared to help readers
practice, and readers can
then quickly turn to
their own datasets.

Isolation, extinction,
conservation,
biodiversity, hotspots.

Evolutionary
Community Ecology

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develops a unified framework for understanding the structure of ecological communities and the dynamics of natural selection that shape the evolution of the species inhabiting them. All species engage in interactions with many other species, and these interactions regulate their abundance, define

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And their trajectories of natural selection, and shape their movement decisions. Mark McPeck synthesizes the ecological and evolutionary dynamics generated by species interactions that structure local biological communities and regional metacommunities.

McPeck explores the

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ecological performance
characteristics needed
for invasibility and
coexistence of species in
complex networks of
species interactions.
This species interaction
framework is then
extended to examine the
ecological dynamics of
natural selection that
drive coevolution of
interacting species in
these complex

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interaction networks.

The models of natural selection resulting from species interactions are

used to evaluate the

ecological conditions

that foster

diversification at

multiple trophic levels.

Analyses show that

diversification depends

on the ecological

context in which species

interactions occur and

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the types of traits that define the mechanisms of those species interactions. Lastly, looking at the mechanisms of speciation that affect species richness and diversity at various spatial scales and the consequences of past climate change over the Quaternary period, McPeck considers how

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metacommunity
structure is shaped at
regional and

biogeographic scales.

Integrating evolutionary
theory into the study of
community ecology,

Evolutionary

Community Ecology

provides a new

framework for

predicting how

communities are

organized and how they

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may change over time.

A comprehensive account of joint species distribution modelling, covering statistical analyses in light of modern community ecology theory.

This is an up-to-date study of patterns and

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And Community Ecology
processes involving two or more species. The book strikes a balance between plant and animal species and among studies of marine, freshwater and terrestrial communities.

Community ecology has undergone a transformation in recent years, from a discipline largely focused on

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processes occurring
within a local area to a
discipline encompassing
a much richer domain of
study, including the
linkages between
communities separated
in space
(metacommunity
dynamics), niche and
neutral theory, the
interplay between
ecology and evolution
(eco-evolutionary

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dynamics), and the influence of historical and regional processes in shaping patterns of biodiversity. To fully understand these new developments, however, students continue to need a strong foundation in the study of species interactions and how these interactions are assembled into food webs and other

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And community
ecological networks.

This new edition fulfils
the book's original aims,
both as a much-needed
up-to-date and
accessible introduction
to modern community
ecology, and in
identifying the
important questions that
are yet to be answered.

This research-driven
textbook introduces
state-of-the-art

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community ecology to a new generation of students, adopting reasoned and balanced perspectives on as-yet-unresolved issues.

Community Ecology is suitable for advanced undergraduates, graduate students, and researchers seeking a broad, up-to-date coverage of ecological concepts at the

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