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Information Geometry and Population Genetics

The Mathematical Structure of the
Wright-Fisher Model

The Geometry Of Population Genetics

K. Wöhrmann, S.K. Jain



The Geometry Of Population Genetics:

The Geometry of Population Genetics Ethan Akin, 1979-11-01 *Information Geometry and Population Genetics* Julian Hofrichter, Jürgen Jost, Tat Dat Tran, 2017-02-23 The present monograph develops a versatile and profound mathematical perspective of the Wright Fisher model of population genetics This well known and intensively studied model carries a rich and beautiful mathematical structure which is uncovered here in a systematic manner In addition to approaches by means of analysis combinatorics and PDE a geometric perspective is brought in through Amari's and Chentsov's information geometry This concept allows us to calculate many quantities of interest systematically likewise the employed global perspective elucidates the stratification of the model in an unprecedented manner Furthermore the links to statistical mechanics and large deviation theory are explored and developed into powerful tools Altogether the manuscript provides a solid and broad working basis for graduate students and researchers interested in this field *Population Genetics, Molecular Evolution, and the Neutral Theory* Motoo Kimura, 1994 One of this century's leading evolutionary biologists Motoo Kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics This volume collects 57 of Kimura's most important papers and covers forty years of his diverse and original contributions to our understanding of how genetic variation affects evolutionary change Kimura's neutral theory first presented in 1968 challenged the notion that natural selection was the sole directive force in evolution Arguing that mutations and random drift account for variations at the level of DNA and amino acids Kimura advanced a theory of evolutionary change that was strongly challenged at first and that eventually earned the respect and interest of evolutionary biologists throughout the world This volume includes the seminal papers on the neutral theory as well as many others that cover such topics as population structure variable selection intensity the genetics of quantitative characters inbreeding systems and reversibility of changes by random drift Background essays by Naoyuki Takahata examine Kimura's work in relation to its effects and recent developments in each area Theories of Population Variation in Genes and Genomes Freddy Bugge Christiansen, 2014-12-17 This textbook provides an authoritative introduction to both classical and coalescent approaches to population genetics Written for graduate students and advanced undergraduates by one of the world's leading authorities in the field the book focuses on the theoretical background of population genetics while emphasizing the close interplay between theory and empiricism Traditional topics such as genetic and phenotypic variation mutation migration and linkage are covered and advanced by contemporary coalescent theory which describes the genealogy of genes in a population ultimately connecting them to a single common ancestor Effects of selection particularly genomic effects are discussed with reference to molecular genetic variation The book is designed for students of population genetics bioinformatics evolutionary biology molecular evolution and theoretical biology as well as biologists molecular biologists breeders biomathematicians and biostatisticians Contains up to date treatment of key areas in classical and modern

theoretical population genetics Provides in depth coverage of coalescent theory Discusses genomic effects of selection Gives examples from empirical population genetics Incorporates figures diagrams and boxed features throughout Includes end of chapter exercises Speaks to a wide range of students in biology bioinformatics and biostatistics **Population Genetics in Forestry** Hans-Rolf Gregorius, 2013-03-13 When we consider the main object of forestry the tree it immediately becomes clear why experimental population geneticists have been so hesitant in making this object a primary concern of their research Trees are very long living organisms with generation intervals frequently exceeding those of their investigators by multiples They virtually exclude therefore application of the classical methods of population genetics since these are based on observing genetic structures over generations This situation where the limits set to observation are so severe particularly requires close cooperation between theory and experiment It also requires careful consideration of results obtained for organisms other than trees in order to gain additional insights by comparing the results for trees with those for other organisms Yet the greatest challenge to population and ecological genetics probably originates from the fact that forests are very likely to be the most complex ecosystems of all even in some cases where they are subject to intense management This complexity which equally comprises biotic and abiotic factors varying both in time and space makes extremely high demands on the adaptational capacity and thus flexibility of the carriers of such an ecosystem Longevity combined with immobility during the vegetative phase however appears to contradict the obvious necessity of adaptational flexibility in forest tree populations when compared with short lived and or mobile organisms **Population Biology** K. Wöhrmann, S.K. Jain, 2012-12-06 Fascinated by the diversity of living organisms humans have always been curious about its origin Darwin was the first to provide the scholarly and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don't understand it in detail Many questions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation and evolution **Fundamentals of Mathematical Evolutionary Genetics** Yuri M. Svirzhev, V.P. Passekov, 2012-12-06 One service mathematics has rendered the Et moi si j'avais su comment en revenir human race It has put common sense back je ne saurais point à Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able to do something with it Eric T Bell O Heavenside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics o One service logic has rendered computer science o One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'être of this series **The Mathematics of Darwin's Legacy** Fabio A. C. Chalub, José Francisco Rodrigues, 2011-06-24 The book

presents a general overview of mathematical models in the context of evolution. It covers a wide range of topics such as population genetics, population dynamics, speciation, adaptive dynamics, game theory, kin selection, and stochastic processes. Written by leading scientists working at the interface between evolutionary biology and mathematics, the book is the outcome of a conference commemorating Charles Darwin's 200th birthday and the 150th anniversary of the first publication of his book *On the origin of species*. Its chapters vary in format between general introductory and state-of-the-art research texts in biomathematics, in this way addressing both students and researchers in mathematics, biology, and related fields. Mathematicians looking for new problems as well as biologists looking for rigorous description of population dynamics will find this book fundamental.

The Stability Concept of Evolutionary Game Theory Ross Cressman, 2013-03-09

These Notes grew from my research in evolutionary biology, specifically on the theory of evolutionarily stable strategies (ESS) theory over the past ten years. Personally, evolutionary game theory has given me the opportunity to transfer my enthusiasm for abstract mathematics to more practical pursuits. I was fortunate to have entered this field in its infancy when many biologists recognized its potential but were not prepared to grant it general acceptance. This is no longer the case. ESS theory is now a rapidly expanding in both applied and theoretical directions, force that no evolutionary biologist can afford to ignore. Perhaps to continue the life cycle metaphor, ESS theory is now in its late adolescence and displays much of the optimism and exuberance of this exciting age. There are dangers in writing a text about a theory at this stage of development. A comprehensive treatment would involve too many loose ends for the reader to appreciate the central message. On the other hand, the current central message may soon become obsolete as the theory matures. Although the restricted topics I have chosen for this text reflect my own research bias, I am confident they will remain the theoretical basis of ESS theory. Indeed, I feel the adult maturity of ESS theory is close at hand and I hope the text will play an important role in this achievement.

Hopf Bifurcation in the Two Locus Genetic Model Ethan Akin, 1983

Hopf bifurcations occur in the class of simple genetic models for the combined effect of selection and recombination. The demonstration of cycling in such models is biologically unexpected. To study this phenomenon, we describe the locus of positions at which Hopf bifurcation occurs in the two locus, two allele model. The description is given by an explicit computable parametrization which can be used to generate all possible examples. Asymptotic estimates show that limit cycles can occur.

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