



Benchmark Papers in Genetics

V. 7

# **STOCHASTIC MODELS IN POPULATION GENETICS**

**Edited by  
WEN-HSIUNG LI**

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# Stochastic Models In Population Genetics

**Albert Charles Trajstman**



## **Stochastic Models In Population Genetics:**

*Stochastic Models in Population Genetics* Wen-Hsiung Li, 1977 Pioneering works Classical single locus problems Molecular population genetics Multilocus problems Structured populations Mathematical problems **Some Stochastic Models in**

**Population Genetics** Susan Joan Michell, 1972 **Stochastic Models in Population Genetics** M. Hsiung Li, 1977

**Some Stochastic Models in Population Genetics** Ruth Anderson, 1979 **Stochastic Models in Biology** Narendra S. Goel, Nira Richter-Dyn, 2013-10-22 *Stochastic Models in Biology* describes the usefulness of the theory of stochastic process in studying biological phenomena The book describes analysis of biological systems and experiments through probabilistic models rather than deterministic methods The text reviews the mathematical analyses for modeling different biological systems such as the random processes continuous in time and discrete in state space The book also discusses population growth and extinction through Malthus law and the work of MacArthur and Wilson The text then explains the dynamics of a population of interacting species The book also addresses population genetics under systematic evolutionary pressures known as deterministic equations and genetic changes in a finite population known as stochastic equations The text then turns to stochastic modeling of biological systems at the molecular level particularly the kinetics of biochemical reactions The book also presents various useful equations such as the differential equation for generating functions for birth and death processes The text can prove valuable for biochemists cellular biologists and researchers in the medical and chemical field who are tasked to perform data analysis **Stochastic Models in Population Genetics** Hilde Maria Jozefa

Dominiek Herbots, 1994 *Estimation in Stochastic Models for Population Genetics* Mads Sundby Palte, 2016 *On Some Finite Stochastic Models in Population Genetics* Albert Charles Trajstman, 1973 **Stochastic Models in Population**

**Genetics: the Impact of Selection and Recombination** Rebekka Brink-Spalink, 2014 We consider gene genealogies from populations under selective pressure and take into account that genes can be reassembled during the reproduction process due to recombination The main result is the derivation of an approximate distribution of the ancestral relationships of neutral genes in a sample taken out of a population after a so called selective sweep Such a sweep occurs if an advantageous mutation appears in one individual and then spreads in the population such that after some number of generations every individual in the population has this advantageous gene expression at the loci **Asymptotic Analysis of Some Stochastic**

**Models from Population Dynamics and Population Genetics** Todd Parsons, 2012 **Some Mathematical Models from Population Genetics** Alison Etheridge, 2011-01-05 This work reflects sixteen hours of lectures delivered by the author at the 2009 St Flour summer school in probability It provides a rapid introduction to a range of mathematical models that have their origins in theoretical population genetics The models fall into two classes forwards in time models for the evolution of frequencies of different genetic types in a population and backwards in time coalescent models that trace out the genealogical relationships between individuals in a sample from the population Some like the classical Wright Fisher model

date right back to the origins of the subject Others like the multiple merger coalescents or the spatial Lambda Fleming Viot process are much more recent All share a rich mathematical structure Biological terms are explained the models are carefully motivated and tools for their study are presented systematically *MATHEMATICAL MODELS OF LIFE SUPPORT SYSTEMS - Volume II* Valeri I. Agoshko , Jean-Pierre Puel,2009-10-10 Mathematical Models of Life Support Systems is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into several topics which represent the main scientific areas of the theme The first topic Introduction to Mathematical Modeling discusses the foundations of mathematical modeling and computational experiments which are formed to support new methodologies of scientific research The succeeding topics are Mathematical Models in Water Sciences Climate Environmental Pollution and Degradation Energy Sciences Food and Agricultural Sciences Population Immunology Medical Sciences and Control of Catastrophic Processes These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs *Molecular Population Genetics and Evolution* Masatoshi Nei,1975 *Introduction to Population Genetics* Richard Halliburton,2004 Making the theory of population genetics relevant to readers this book explains the related mathematics with a logical organization It presents the quantitative aspects of population genetics and employs examples of human genetics medical evolution human evolution and endangered species For an introduction to and understanding of population genetics **Stochastic Models for Structured Populations** Sylvie Meleard,Vincent Bansaye,2015-09-03 In this contribution several probabilistic tools to study population dynamics are developed The focus is on scaling limits of qualitatively different stochastic individual based models and the long time behavior of some classes of limiting processes Structured population dynamics are modeled by measure valued processes describing the individual behaviors and taking into account the demographic and mutational parameters and possible interactions between individuals Many quantitative parameters appear in these models and several relevant normalizations are considered leading to infinite dimensional deterministic or stochastic large population approximations Biologically relevant questions are considered such as extinction criteria the effect of large birth events the impact of environmental catastrophes the mutation selection trade off recovery criteria in parasite infections genealogical properties of a sample of individuals These notes originated from a lecture series on Structured Population Dynamics at Ecole polytechnique France Vincent Bansaye and Sylvie Meleard are Professors at Ecole Polytechnique France They are a specialists of branching processes and random particle systems in biology Most of their research concerns the applications of probability to biodiversity ecology and evolution Theory and Experiment in Molecular Population Genetics Michael R. Dietrich,1991 *Stochastic Models for the Ecology and Population Genetics of Introduced Species* Meike Wittmann,2013 Theory of Population Genetics and Evolutionary Ecology Joan

Roughgarden,1979 This is a reprint of a classic which synthesizes population genetics and population genetics to form one of the first books on evolutionary ecology Written by one of the foremost authorities in the field it is designed as an introduction useful to readers at various levels from diverse backgrounds It features balanced readable coverage of both elementary and advanced topics that are essential to those interested in evolutionary biology ecology animal behavior sociobiology and paleobiology

**Population Genetic Models for Interpreting Prehistoric Intra-cemetery Biological Variation** Lyle William Konigsberg,1987

**Handbook of Statistical Genetics** D. J. Balding,Martin Bishop,Martin J. Bishop,Christopher Cannings,2001-03-28 A truly groundbreaking volume the Handbook of Statistical Genetics is a timely informative and highly accessible reference for both statisticians interested in genetical applications and geneticists seeking a deeper understanding of statistical methods in their field It is divided into six main sections encompassing the entire field of statistics in genetics Bioinformatics Population Genetics Evolutionary Genetics Genetic Epidemiology Plant and Animal Genetics Applications As the Human Genome Project HGP reaches its climax with the complete sequence of mankind science is fast approaching an exciting new stage in its ability to understand genetic forces in man In parallel to the HGP are major sequencing efforts in other organisms enabling us to understand broader questions in evolution and classification This explosion of data has led to an increased need for sophisticated statistical mathematical and computational tools to enable complex data collection analysis and interpretation of the results Comprehensive coverage of the most pressing statistical issues in genetics Offers a lucid introduction to newcomers as well as providing invaluable information for more experienced researchers Each chapter is written by a leading international authority from the field Complemented by numerous examples case studies and references to useful resources on the web This authoritative reference will be ideal for both students and researchers working in genetics including statisticians geneticists molecular biologists biochemists and computer scientists

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