



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

**M. Hsiung Li**



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

**Stochastic Models in Population Genetics** Wen-Hsiung Li,1977      **Stochastic Models in Population Genetics** M. Hsiung Li,1977      Stochastic Models in Population Genetics Hilde Maria Jozefa Dominiek Herbots,1994      **Some Stochastic Models in Population Genetics** Susan Joan Michell,1972      Some Stochastic Models in Population Genetics Ruth Anderson,1979      **Estimation in Stochastic Models for Population Genetics** Mads Sundby Palle,2016

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      **On Some Finite Stochastic Models in Population Genetics** Albert Charles Trajstman,1973      **Asymptotic Analysis of Some Stochastic Models from Population Dynamics and Population Genetics** Todd Parsons,2012      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 lo      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

**Stochastic Models With Applications To Genetics, Cancers, Aids And Other Biomedical Systems** Wai-yuan Tan,2002-02-26 This book presents a systematic treatment of Markov chains diffusion processes and state space models as well as alternative approaches to Markov chains through stochastic difference equations and stochastic differential equations It illustrates how these processes and approaches are applied to many problems in genetics carcinogenesis AIDS epidemiology and other biomedical systems One feature of the book is that it describes the basic MCMC Markov chain and Monte Carlo procedures and illustrates how to use the Gibbs sampling method and the multilevel Gibbs sampling method to solve many problems in genetics carcinogenesis AIDS and other biomedical systems As another feature the book develops many state space models for many genetic problems carcinogenesis AIDS epidemiology and HIV pathogenesis It shows in detail how to use the multilevel Gibbs sampling method to estimate or predict simultaneously the state variables and the unknown parameters in cancer chemotherapy carcinogenesis AIDS epidemiology and HIV pathogenesis As a matter of fact this book is the first to develop many state space models for many genetic problems carcinogenesis and other biomedical problems

Stochastic Models for the Ecology and Population Genetics of Introduced Species Meike Wittmann,2013

*Molecular Population Genetics and Evolution* Masatoshi Nei,1975

*Some Mathematical Models from Population Genetics* Alison Etheridge,2011-03-30 Based on the author s lectures at the 2009 St Flour summer school in probability this volume provides an introduction to a range of mathematical models that have their origins in theoretical 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

**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 **Diffusion Models in Population Genetics** Motoo Kimura,1964 **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

Stochastic Problems in Population Genetics T. Maruyama,2013-03-13 These are notes based on courses in Theoretical Population Genetics given at the University of Texas at Houston during the winter quarter 1974 and at the University of Wisconsin during the fall semester 1976 These notes explore problems of population genetics and evolution involving stochastic processes Biological models and various mathematical techniques are discussed Special emphasis is given to the diffusion method and an attempt is made to emphasize the underlying unity of various problems based on the Kolmogorov backward equation A particular effort was made to make the subject accessible to biology students who are not familiar with stochastic processes The references are not exhaustive but were chosen to provide a starting point for the reader interested in pursuing the subject further Acknowledgement I would like to use this opportunity to express my thanks to Drs J F Crow M Nei and W J Schull for their hospitality during my stays at their universities I am indebted to Dr M Kimura for his continuous encouragement My thanks also go to the small but resolute groups of students visitors and colleagues whose enthusiasm was a great source of encouragement I am especially obliged to Dr Martin Curie Cohen and Dr Crow for reading a large part of the manuscript and making many valuable comments Special gratitude is expressed to Miss Sumiko Imamiya for her patience and endurance and for her efficient preparation of the manuscript

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