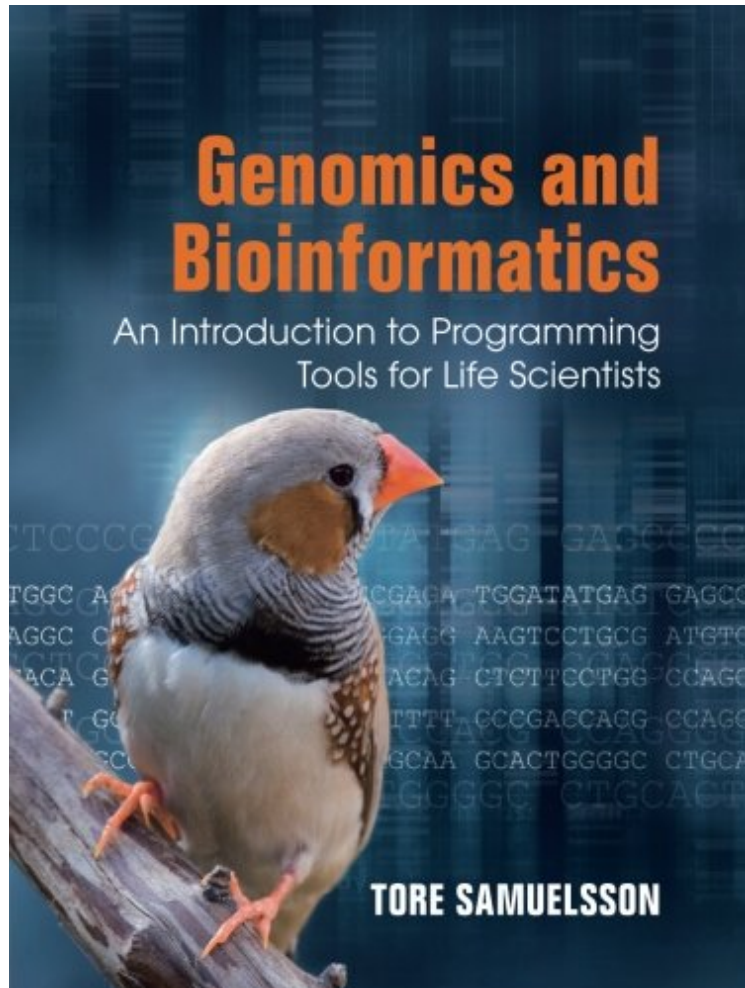


# Genomics and Bioinformatics: An Introduction to Programming Tools for Life Scientists

Tore Samuelsson

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**Tore Samuelsson : Genomics and Bioinformatics: An Introduction to Programming Tools for Life Scientists**  
before purchasing it in order to gage whether or not it would be worth my time, and all praised Genomics and Bioinformatics: An Introduction to Programming Tools for Life Scientists:

4 of 5 people found the following review helpful. Okay, but directionlessBy Alex HallI used this book in an introductory grad-level bioinformatics course. No programming knowledge was necessary to enroll and we learned python as part of this course. This book was required, but I only used it for the first week or two of class. Really not that helpful for my needs.My main issue with the book is the general lack of editorial feel. Most chapters are topical case studies which also describe how to do a task in perl (there is a companion website which provides equivalent python scripts). Especially since we were learning Python in this course and considering that the field is moving

towards object-oriented languages, I rarely needed to reference this book. There are several better introductions to genomics, so if you aren't interested in the 'how-to' of this field then I recommend passing on this book. Even if you are interested, consider other resources before this one. 2 of 3 people found the following review helpful. Nice update for any scientist who needs to review the new genomics tools. Relatively well written summary - starting point. Strongly recommended. 0 of 2 people found the following review helpful. Informative. By NHT This is a useful and informative text; although I won't be using it "extensively" until next semester, I have scanned the chapters and it appears to have the right content for studying the subject thoroughly. I look forward to supplementing class lectures with the info contained in this text.

With the arrival of genomics and genome sequencing projects, biology has been transformed into an incredibly data-rich science. The vast amount of information generated has made computational analysis critical and has increased demand for skilled bioinformaticians. Designed for biologists without previous programming experience, this textbook provides a hands-on introduction to Unix, Perl and other tools used in sequence bioinformatics. Relevant biological topics are used throughout the book and are combined with practical bioinformatics examples, leading students through the process from biological problem to computational solution. All of the Perl scripts, sequence and database files used in the book are available for download at the accompanying website, allowing the reader to easily follow each example using their own computer. Programming examples are kept at an introductory level, avoiding complex mathematics that students often find daunting. The book demonstrates that even simple programs can provide powerful solutions to many complex bioinformatics problems.

"... Samuelsson has devised a well-structured, step-by-step approach. Each chapter deals with a different use of bioinformatics, ranging from human disease to gene technology, giving the reader up-to-the-minute information in bite-sized chunks. The topics show the interdisciplinary nature of bioinformatics and are introduced in a readable manner, so the novice is not swamped with detail." Dr Leighton Dann, *The Biologist* "The book provides a lively and accessible introduction to current research in the life sciences, and it does so in a succinct way by grounding the explanations with simple algorithms expressed in Perl code. As such, the book can be very useful to a general science audience, particularly those with a computer science background, whether established researchers or undergraduate students. The writing is inspiring and engaging, and the inclusion of Perl code makes it easy for readers to apply the knowledge and observe the outcomes." br /Sara Kalvala, *Computing s* About the Author Tore Samuelsson is a Professor in Biochemistry and Bioinformatics at the Institute of Biomedicine, University of Gothenburg, Sweden. He has been active in bioinformatics research for more than fifteen years and has over ten years' experience of teaching in the field, including the development of web resources for molecular biology and bioinformatics education.