Bioinformatics Algorithms An Active Learning Approach

Phillip Compeau

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This is the first edition of the textbook. The second edition (featuring two volumes) is now published and can be purchased from Amazon. Bioinformatics Algorithms: An Active Learning Approach is one of the first textbooks to emerge from the recent Massive Online Open Course (MOOC) revolution. A light-hearted and analogy-filled companion to the authors' acclaimed online course (http://coursera.org/course/bioinformatics), this book presents students with a dynamic approach to learning bioinformatics. It strikes a unique balance between practical challenges in modern biology and fundamental algorithmic ideas, thus capturing the interest of biology and computer science students alike. Each chapter begins with a central biological question, such as "Are There Fragile Regions in the Human Genome?" or "Which DNA Patterns Play the Role of Molecular Clocks?" and then steadily develops the algorithmic sophistication required to answer this question. Hundreds of exercises are incorporated directly into the text as soon as they are needed; readers can test their knowledge through automated coding challenges on Rosalind (http://rosalind.info), an online platform for learning bioinformatics. The textbook website (http://bioinformaticsalgorithms.com) directs readers toward additional educational materials, including video lectures and PowerPoint slides.

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