Modernizing Statistics Education via Biology Applications

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Abstract

In most traditional statistics courses, instructors use data from different fields in an effort to give the courses an interdisciplinary flavor. They generally fail because these attempts lack the cross-disciplinary concepts connected in a meanigful way beyond just using a data set from another field. In this talk I will discuss modernizing statistics education by i) using evolutionary concepts adapted as computational methods and ii) using biological data to demonstrate abstract statistical methods.