



Biology Seminar

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Context x Everything Interactions: Proteins, Predictions, Pandemics and Prisons

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Complex biological systems can be described by any one of a number of features, including the tools used to deconstruct interactions between the parcels, actors, and forces that compose these systems. In

$\Delta Z = h^2 S$

$\theta = \frac{1}{\left(\frac{K_A}{|L|}\right)^n + 1}$

$p^2 + 2pq + q^2 = 1$

$3 \cdot \cos(\Omega) = 1 - 4 \cdot \cos\left(\frac{\phi + \psi}{2}\right)^2$

$L = mvr$

$C_w = \sum_{i=1}^m \frac{1}{r_{i+1} - r_i}$

addition, they are defined by a growing understanding of how context shapes these interactions, and by extension, the behavior of biological systems. In this seminar, I will highlight these aspects of complex biological systems using several different model problems: protein evolution, genomic prediction, and the interaction between pandemics and the criminal legal system.

