

Phylodynamic Inference for Tree-like Data with POMP *(Part two)*

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Abstract:

A phylogeny that represents the ancestral relationships among viral genome samples collected from infected individuals is an example for tree-like data. In this talk, I will discuss how we can formulate the evolutionary dynamics of a phylogeny and fit dynamic models to the tree-like data within the Partially Observed Markov Process (POMP) framework. On top of that, graph-like data derived from dynamical systems will also be explored.