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Jeffrey Shaman* (jls106@cumc.columbia.edu), 722 W. 168th St., New York, NY 10032.

Transmission Dynamics of SARS-CoV-2: Inference and Projection.

Dynamic models of infectious disease systems are often used to study the epidemiological characteristics of disease outbreaks, the ecological mechanisms and environmental conditions affecting transmission, and the suitability of various mitigation and intervention strategies. In recent years these same models have been employed to generate probabilistic forecasts of infectious disease incidence at the population scale. Here I present research from my own group describing development of model systems and combined model-inference frameworks capable of simulation, inference and projection of SARS-CoV-2. (Received September 04, 2020)