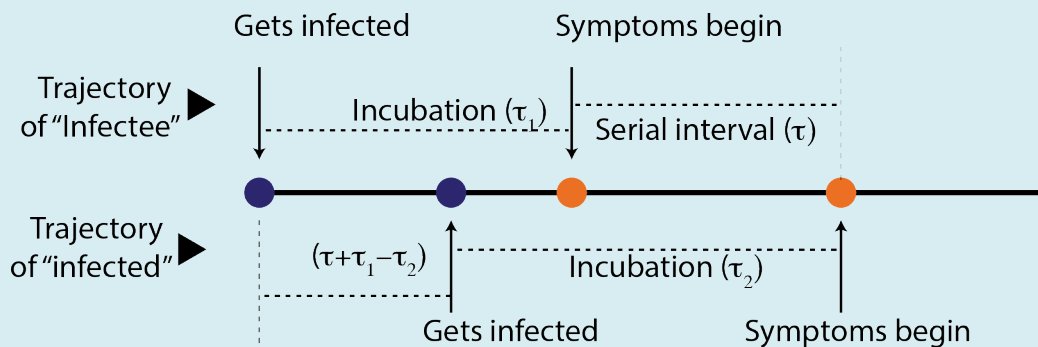
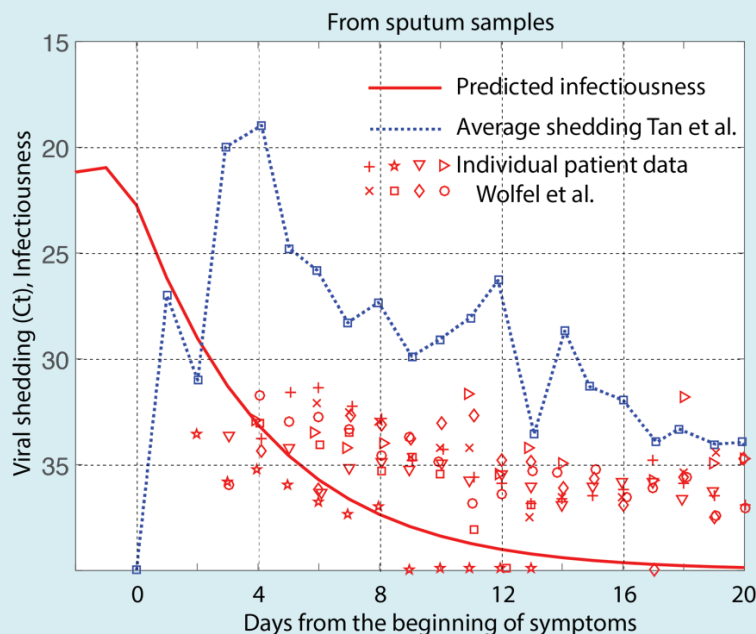


Supplementary Figures



**Supplementary Figure 1: Serial interval.** The time between the two appearances of symptoms in the infected and the infected is illustrated. The infectiousness at  $\tau$ , and the incubation time's  $t_1, t_2$  of the infected and the infected are all combined to find the chance of a serial interval of  $(\tau + t_2 - t_1)$  days.



**Supplementary Figure 2: COVID-19 kinetics from sputum samples.** The predicted drop in infectiousness as shown in Figure 3 is compared with the viral shedding data (Ct) measured from the sputum samples. The longitudinal individual patient data from Wolfel, et al. [8] and the average profile from Tan, et al. [9] are compared.