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Accurate Long-Term Projections of COVID-19 Epidemics by Incorporating Human Behaviours

Many lessons can be learned during the COVID-19 pandemic to improve epidemic modeling in order to produce accurate long-term model projections of epidemics. In the talk, I will show that why the final-size formula can explain the over-projections made by many epidemic models at the beginning of the pandemic, and how our understanding of real epidemics can be improved by examining all important drivers that collectively determine when an epidemic peak and terminate, and how human behaviours can be incorporated into the standard epidemic models to produce accurate and reliable long-term model projections.