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Gerardo Chowell*, gchowell@gsu.edu. *Combating the COVID-19 pandemic with mathematical and statistical modeling tools.*

The devastating COVID-19 pandemic represents an unprecedented opportunity to test and apply mathematical and statistical modeling approaches to infer key epidemiological and transmission characteristics of the novel coronavirus as well as evaluate the performance of different theoretical models for forecasting the trajectory of the pandemic at various spatial scales. In this context, I will present results from multiple ongoing collaborations involving interdisciplinary quantitative scientists, doctoral students, and public health officials. (Received September 11, 2020)