**General**

* “[Superspreading and the effect of individual variation on disease emergence](https://faculty.eeb.ucla.edu/lloydsmith/publications/publications_files/Nature_LloydSmith_2005_Superspreading%20and%20individual%20variation.pdf)”
* [Compartmental models](https://en.wikipedia.org/wiki/Compartmental_models_in_epidemiology) (SIR) in disease modeling Wiki
* [3Blue1Brown individual based model](https://www.youtube.com/watch?v=gxAaO2rsdIs) (video)
* [Discrete-time SIR models](https://www.math.uh.edu/~jmorgan/Math5341/Assignments/FinalExamPaper.pdf)
* [Parasites, the evolution of virulence, and sex](https://ocw.aprende.org/courses/physics/8-591j-systems-biology-fall-2014/lecture-videos/parasites-the-evolution-of-virulence-and-sex/) (video)
* [Boyang’s Github repo](https://github.com/FBoyang/BIG-Hackathon-Tutorial)

**Partial list of Covid-19 model publications**

* [Collation of research papers](http://www.healthdata.org/covid/publications) by IHME
* [Imperial College Model](https://mrc-ide.github.io/covid19usa/#/)
* [CDC list of modeling groups](https://www.cdc.gov/coronavirus/2019-ncov/covid-data/forecasting-us.html)
* [UCLA machine learning based model](https://covid19.uclaml.org/)
* [Modelling interventions](http://dylanhmorris.com/post/mistimed-intervention/)

**Methods for estimating Rt (optional)**

* <https://rt.live/>
* <https://epiforecasts.io/covid/posts/national/united-states/>