Parameterization of an ODE model with Stan:

https://pubs.acs.org/doi/full/10.1021/acssynbio.3c00434

Jupyter notebooks:

https://github.com/biodesign-lab/Predictable_tuning_2020

Global sensitivity analysis method involving partial rank correlation coefficients (cited >2500 times):

https://www.sciencedirect.com/science/article/pii/S0022519308001896

Another global sensitivity analysis method, called the Morris method (?):

Campolongo F., J. Cariboni and A. Saltelli. An effective screening design for sensitivity analysis of large models. *Environmental Modelling & Software* 22: 1509-1518, 2007.

Renardy M., L. R. Joslyn, J. A. Millar and D. E. Kirschner. To Sobol or not to Sobol? The effects of sampling schemes in systems biology applications. *Mathematical Biosciences* 337: 2021.

Reviews/comparisons of sensitivity analysis methods:

Braakman S., P. Pathmanathan and H. Moore. Evaluation framework for systems models. *CPT Pharmacometrics Syst Pharmacol* 11: 264-289, 2022.

Qian G. and A. Mahdi. Sensitivity analysis methods in the biomedical sciences. *Math Biosci* 323: 108306, 2020.

The Runs test for goodness of fit (checks to see if errors look random):

Bujang M. A. and F. E. Sapri. An Application of the Runs Test to Test for Randomness of Observations Obtained from a Clinical Survey in an Ordered Population. *Malaysian Journal of Medical Sciences* 25: 146- 151, 2018