Here are the codes required to repeat analysis conducted in the paper titled “Trophic transmission as a potential mechanism underlying the distribution of parasite diversity in food webs.” by Liu and Chen. Followings are explanations on the content of individual folders.

CodeForModelForOneRun.zip

This contains Delphi/Pascal code and data needed to run one simulation of the model with trophic infection.

CodeForParameterSpaceTroTransModel.zip

This contains Delphi/Pascal code and data needed to construct parasite diversity distributions throughout the entire parameter space, for the model with trophic infection.

CodeForParameterSpaceNoTroTransModel.zip

This contains Delphi/Pascal code and data needed to construct parasite diversity distributions throughout the entire parameter space, for the model without trophic infection.

CodeForOptimalParameterTroTransModel.zip

This contains R code and data needed to search for the best parameter set for the model with trophic infection.

CodeForOptimalParameterNoTroTransModel.zip

This contains R code and data needed to search for the best parameter set for the model without trophic infection.

CodeForSimOptimalTroTransModel.zip

This contains Delphi/Pascal code for simulating the model with trophic infection using the best parameter set 100 times.

CodeForSimOptimalNoTroTransModel.zip

This contains Delphi/Pascal code for simulating the model without trophic infection using the best parameter set 100 times.

CodeForFigure1.zip

R code for reproducing Figure 1 in the paper.

CodeForFigure3.zip

R code for reproducing Figure 3 in the paper.

CodeForFigure4TestMedian.zip

R code for reproducing Figure 4 in the paper, also for conducting test for comparing the medians of D distributions derived from models with and without trophic infection.