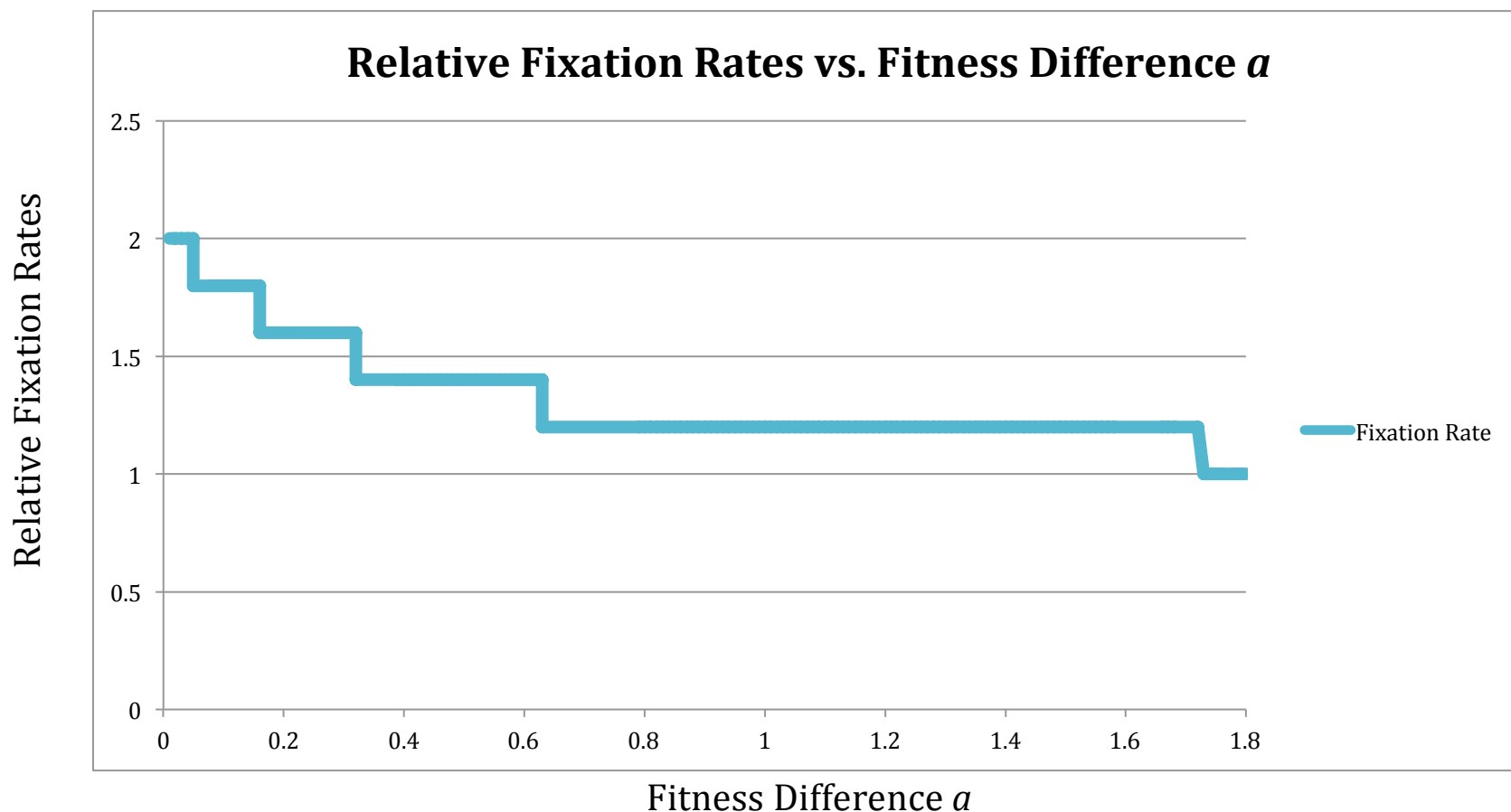


Summary of Results from the Report: *Evolutionary Dynamics and Fixation Rates for Beneficial Mutations*

The graph above displays fixation probabilities for mutations. It is assumed that a population is, at first, homogeneous and that there are two beneficial mutations; the wild type has a fitness 1, and the beneficial mutations have a fitness $1+a$ and $1+2a$, respectively. The graph, then, plots the ratio of fixation rates between these two beneficial mutations. A relative fixation rate of 2 signifies that the mutant with higher fitness is twice as likely to go to fixation in comparison to the mutant with a lower fitness. The ratios tested and graphed above, indicated by horizontal lines, are 2.0, 1.8, 1.6, 1.4, 1.2 and 1.0, in that order.

(Notice that CPM predictions correspond with a relative fixation rate of 2, and EPM with a relative fixation rate of 1). For more background and details, see the report: “*Evolutionary Dynamics and Fixation Rates for Beneficial Mutations*” by Kara Suvada, supervisor Dr. Kristina Crona.