

The figure is a density plot comparing observed data (histogram) with a theoretical curve. The x-axis represents the 'number of A_type individuals' with a bin size of 10, ranging from 0 to 300. The y-axis represents 'density', ranging from 0.0 to 1.0. The histogram (blue bars) shows a distribution that is highly concentrated at the extremes (0 and 300) and very sparse in the middle. The theoretical curve (orange line) is a smooth, U-shaped curve that also peaks at the extremes and is relatively flat in the middle, matching the general shape of the histogram.