

Figure 1 is a 3D plot showing the relationship between the number of species (S) and the number of individuals (N) for different values of α (0.1, 0.2, 0.3, 0.4, 0.5). The plot shows that as α increases, the number of species increases for a given number of individuals. The x-axis is labeled "Number of individuals" and ranges from 0 to 100. The y-axis is labeled "Number of species" and ranges from 0 to 10. The z-axis is labeled " α " and ranges from 0.1 to 0.5. The plot shows five curves, each corresponding to a different value of α . The curves are labeled with their respective α values: 0.1, 0.2, 0.3, 0.4, and 0.5. The curves show that as α increases, the number of species increases for a given number of individuals.





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