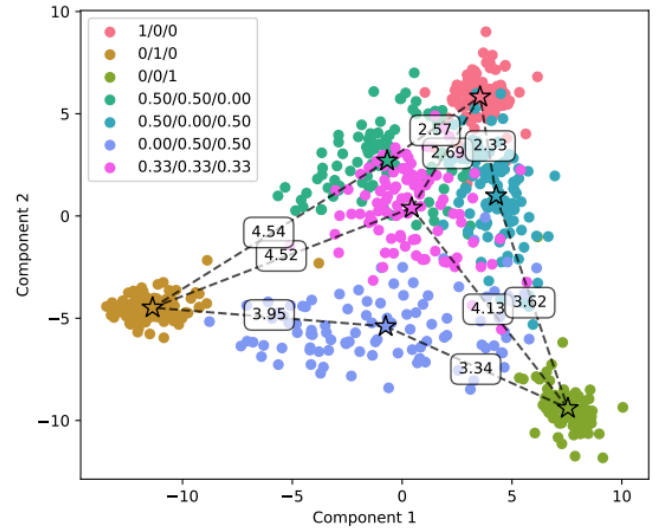
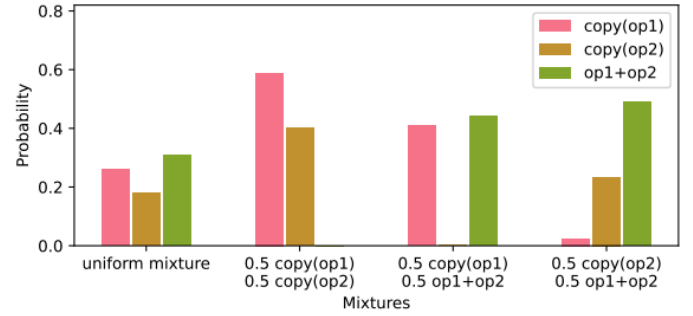
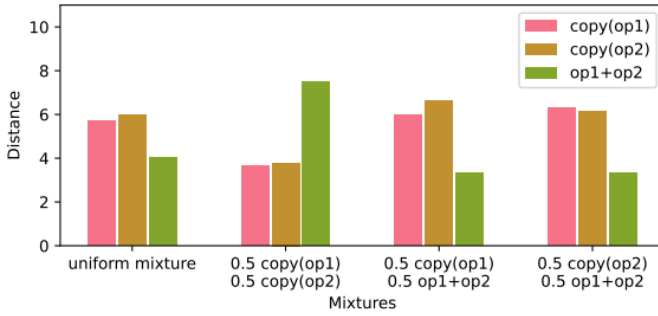


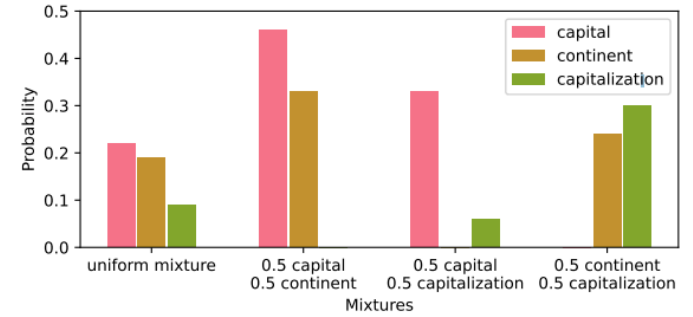
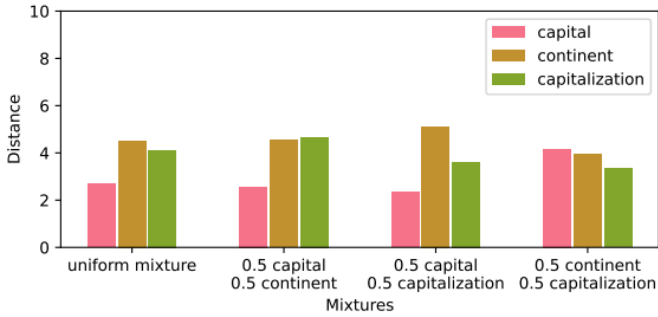
(a) copy (op1) / copy (op2) / op1+op2



(b) capital / continent / capitalization



(c) **(left)** Euclidean distances between centroids and **(right)** corresponding medians of the task answer probability in setting of (a).



(d) **(left)** Euclidean distances between centroids and **(right)** corresponding medians of the task answer probability in setting of (b).

Figure IV: Task vectors of Llama-3 8B projected onto two axes chosen by LDA for two sets of tasks: **(a)** copy (op1), copy (op2) and op1+op2 and **(b)** capital, continent and capitalization; centroids and Euclidean distance between centroids of mixtures and centroids of non-mixtures are labeled. In (c) and (d), left side shows Euclidean distances from centroids of each mixture clusters to centroids of non-mixture clusters, and right side shows medians of probability for each task answer when provided with prompts of task mixture.