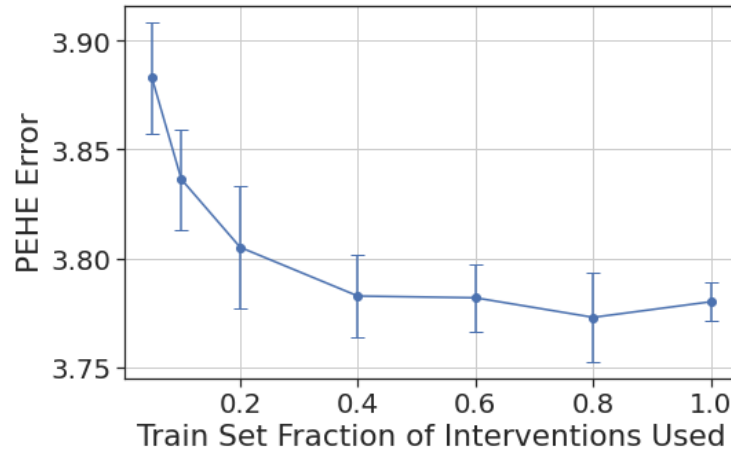
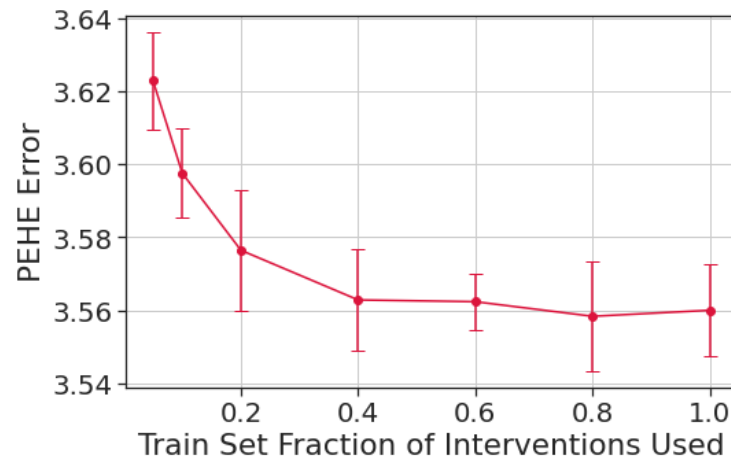


Effect of Decreasing Training Intervention Set Size (PEHE 20 DEGs)



Effect of Decreasing Training Intervention Set Size (PEHE 50 DEGs)



Appendix Figure 1: Measuring the robustness of CaML to limitations in the training intervention data. We downsample the number of training interventions in the LINCS dataset and measure CaML's performance at predicting the gene expression of the Top 20 and Top 50 most differentially expressed genes (DEGs). CaML's zero-shot capabilities improve as the set of unique training interventions increases in size. Nevertheless, CaML still achieves strong performance on smaller datasets (e.g. runs with 60% and 80% of the interventions achieve similar performance).