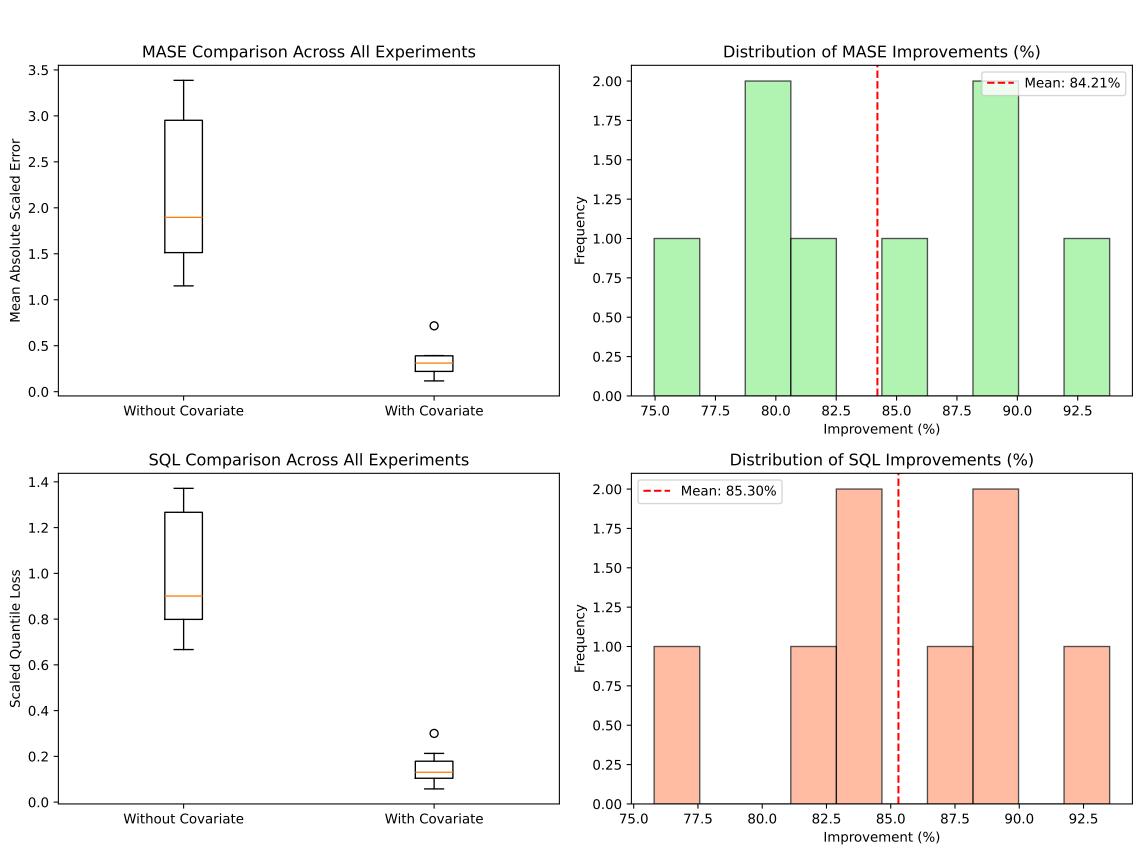
## **Covariate Study Summary: Ar1, Steps, Ramps**



## **Detailed Statistics**

```
Covariate Study Detailed Results
Covariate Types: arl, steps, ramps
Number of Experiments: 8
MASE Results:
- Without Covariate: 2.1626 \pm 0.8179
- With Covariate: 0.3319 \pm 0.1712
- Average Improvement: 84.21%
- Median Improvement: 83.78%
SOL Results:
- Without Covariate: 0.9925 \pm 0.2691
- With Covariate: 0.1488 \pm 0.0735
- Average Improvement: 85.30%
- Median Improvement: 85.51%
Study Parameters:
- Weight: 1.0
- Relation: multiplicative
- Train Ratio: 0.6
- Covariate Weights: Randomized per experiment (Dirichlet distribution)
Best Performing Experiment (MASE):
- Experiment 1: 93.82% improvement
Worst Performing Experiment (MASE):
- Experiment 3: 74.96% improvement
```