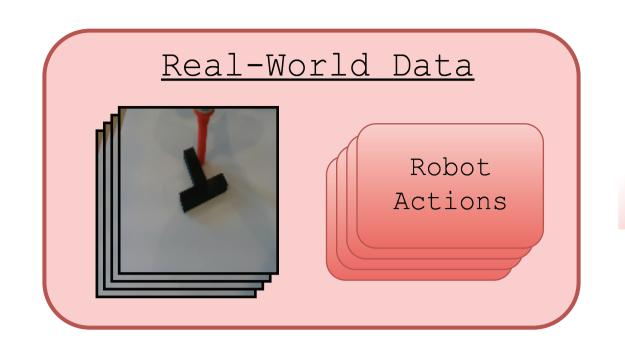
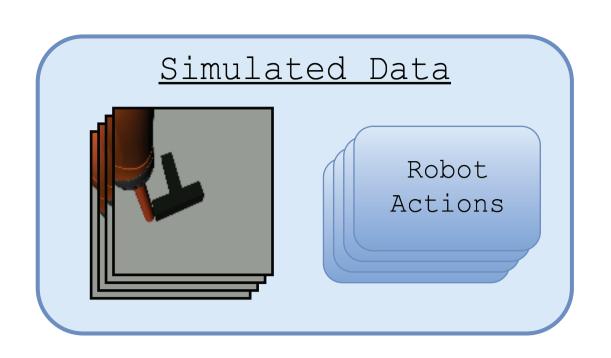
Empirical Analysis of Sim-And-Real Cotraining

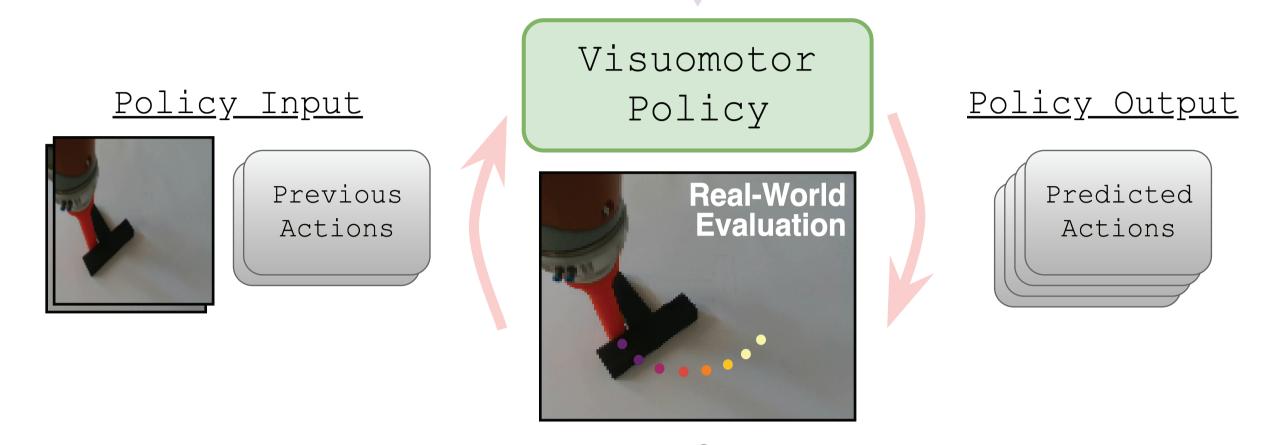
Adam Wei, Abhinav Agarwal, Boyuan Chen, Rohan Bosworth, Nicholas, Pfaff, Russ Tedrake



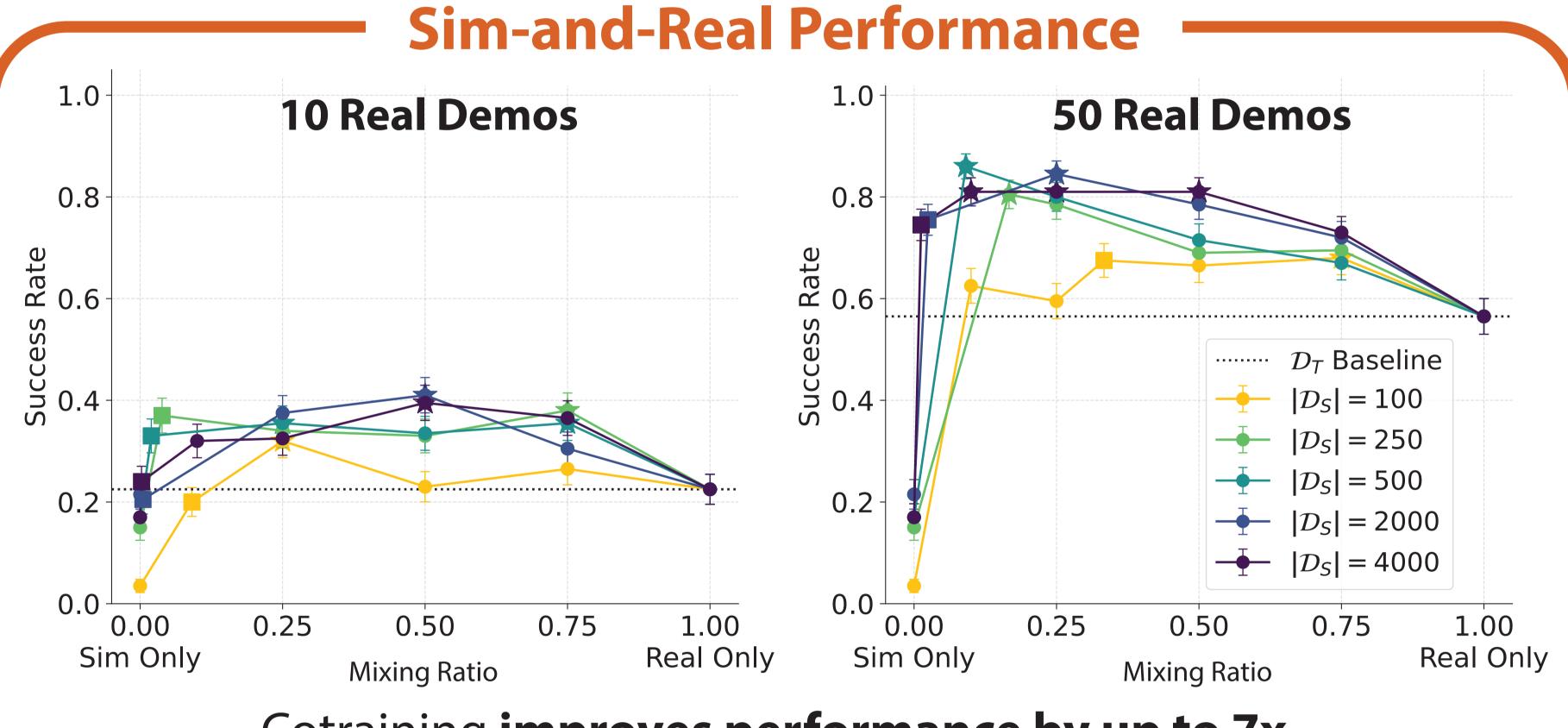
Sim-and-Real Cotraining







In sim-and-real cotraining, policies learn from both simulated and real-world data. We study the principles and mechanisms underlying this learning paradigm.

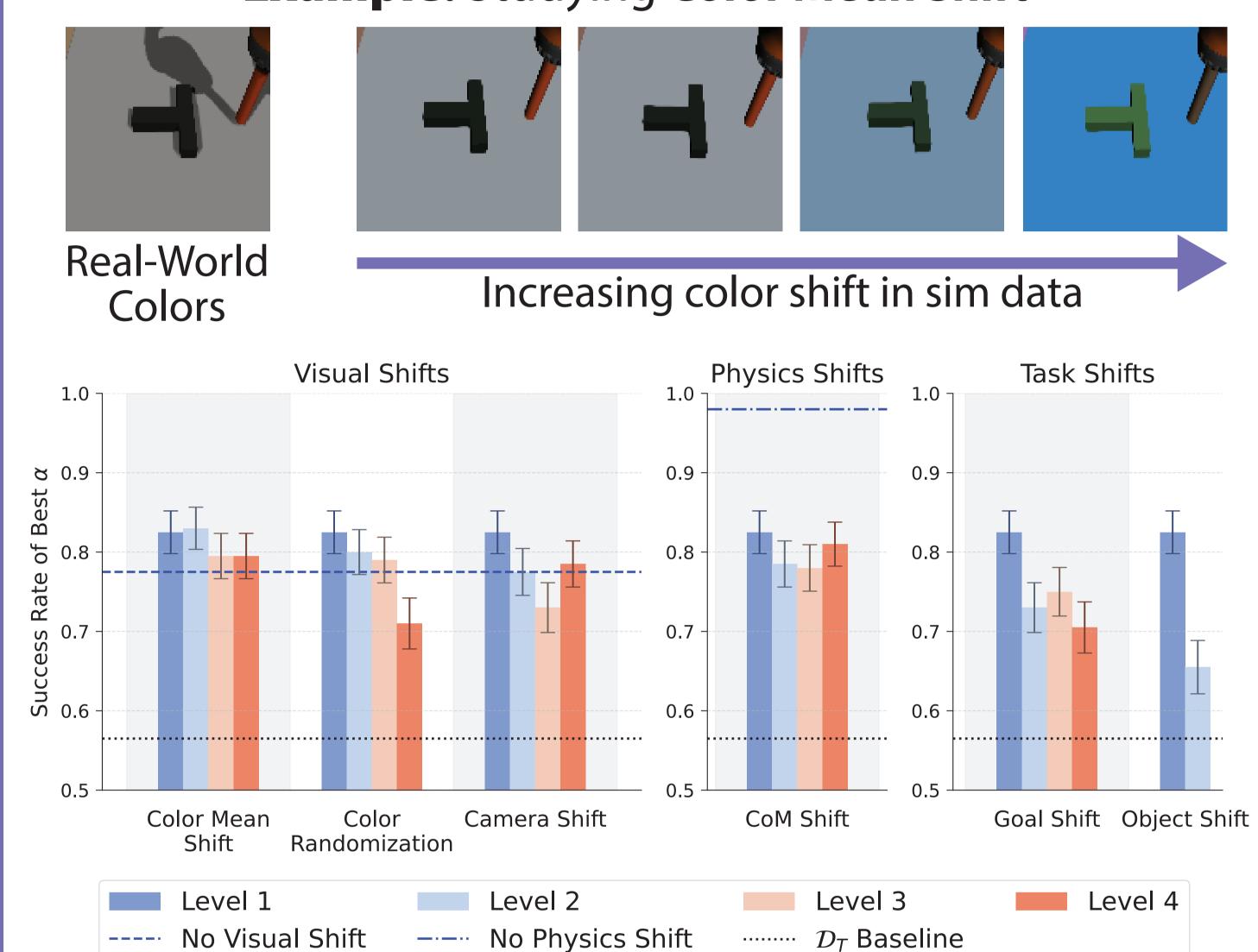


Cotraining improves performance by up to 7x.
Performance from scaling sim plateaus without more

Simulated Rollout

Sim2Real Distribution Shifts

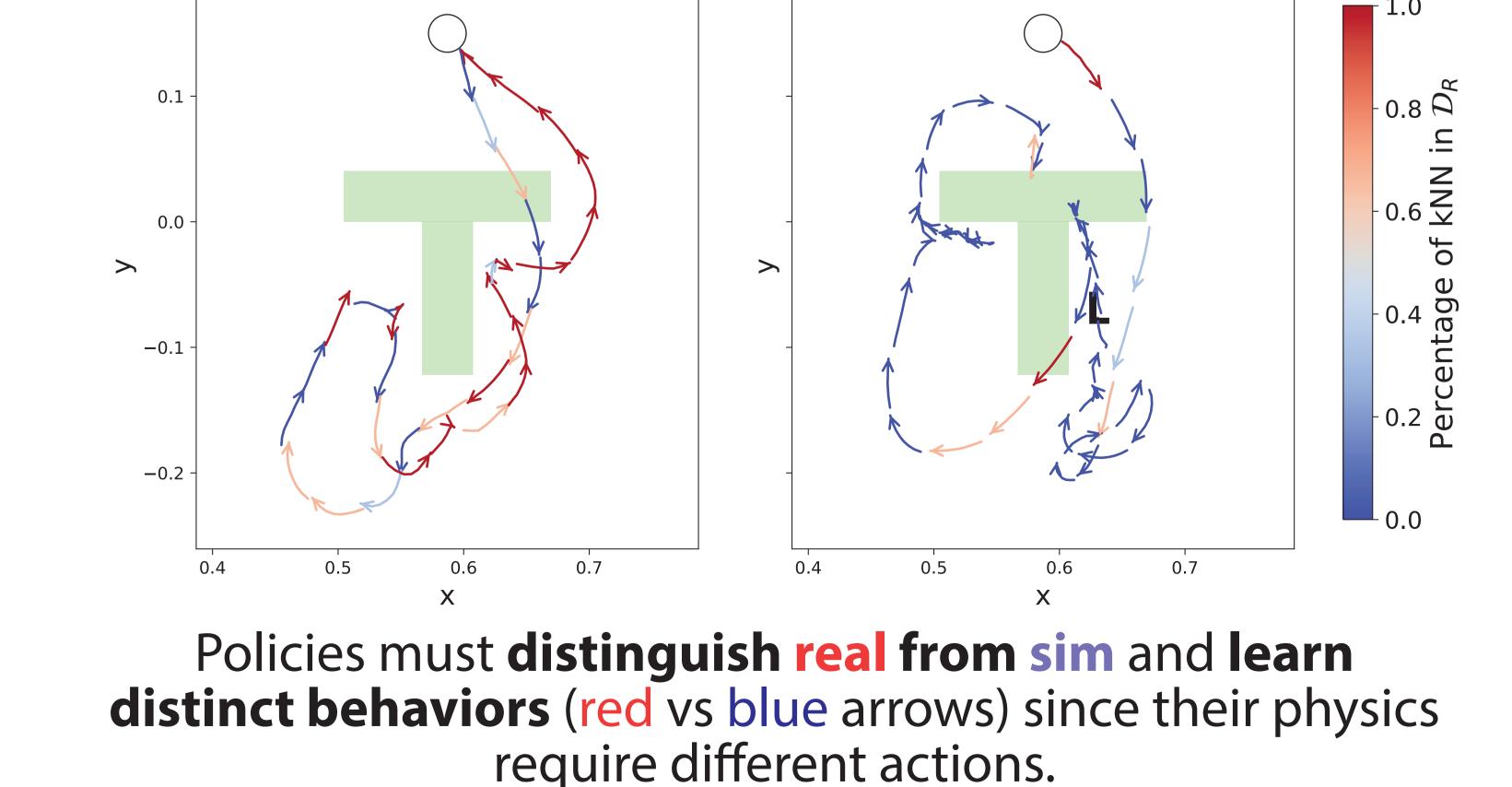




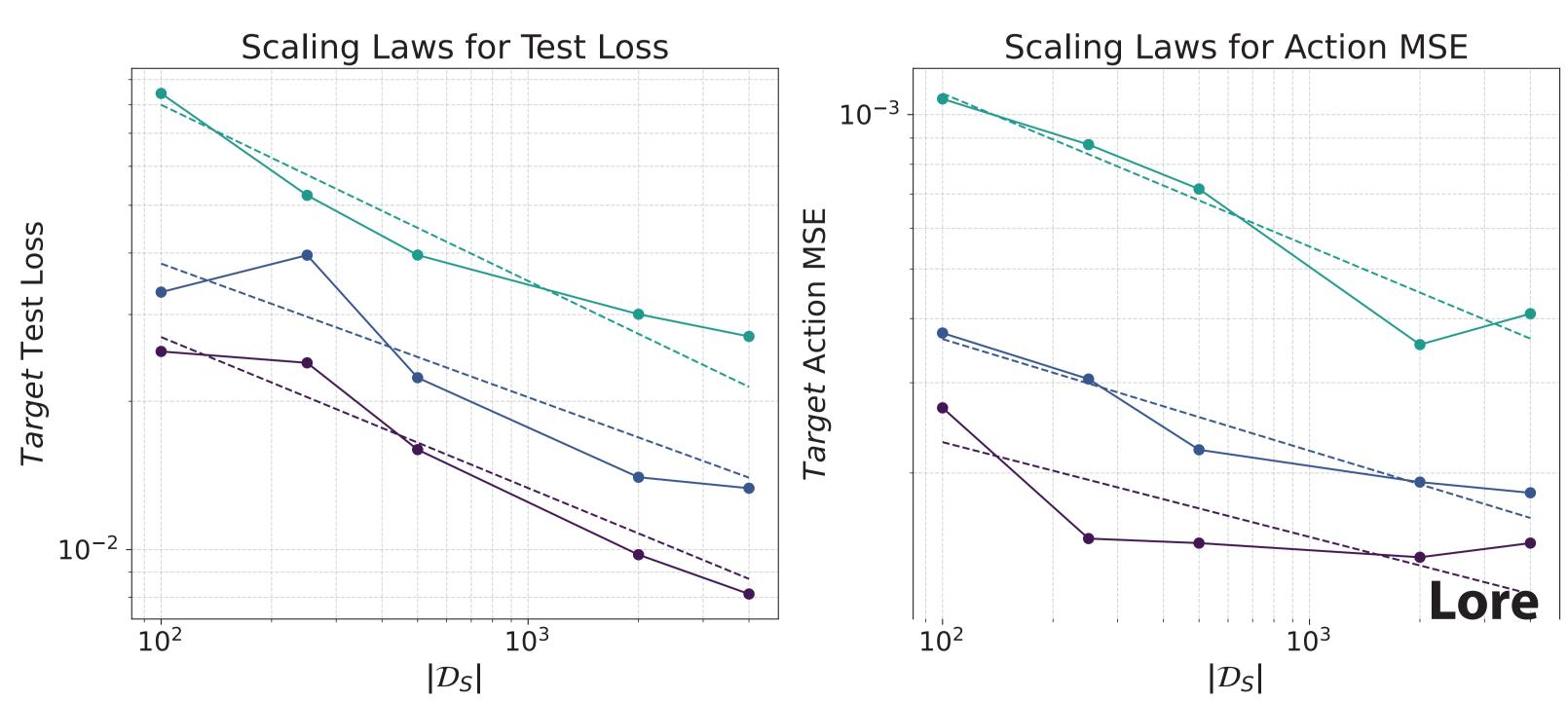
Physical sim2real gaps are most impactful

Visual alignment improves performance, but perfect rendering can hurt performance (see below & paper)

Analysis of Mechanisms



Real-World Rollout



Sim data provides **positive transfer** to real:
-Improves real-world metrics according to **power laws.**-Improves **data coverage** & reduces **compounding error**