

Telling Left from Right: Identifying <u>Geometry-Aware</u> <u>Semantic Correspondence</u>

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Source Image

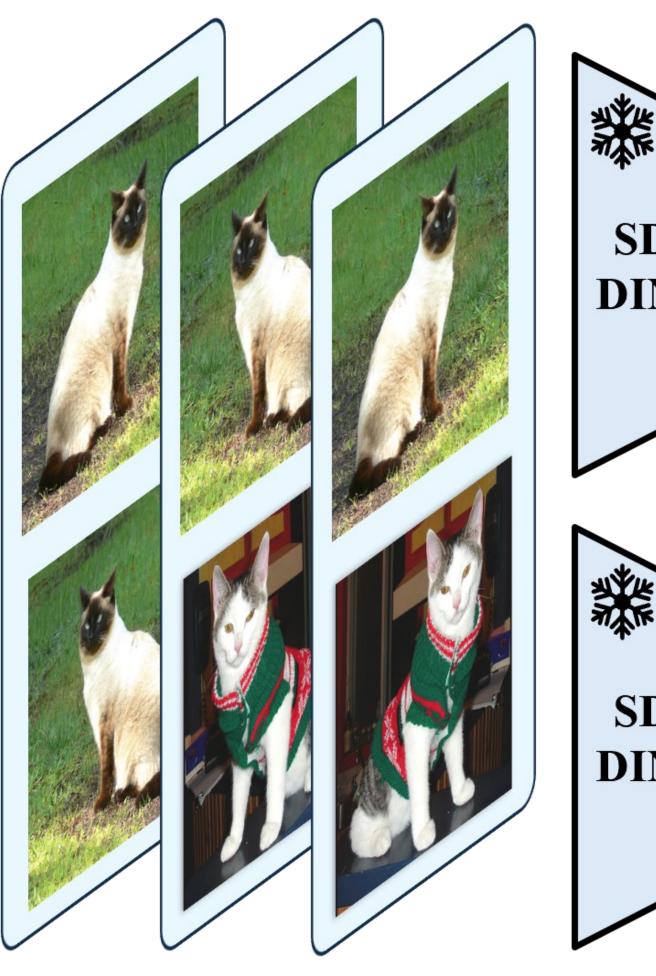


Target Image

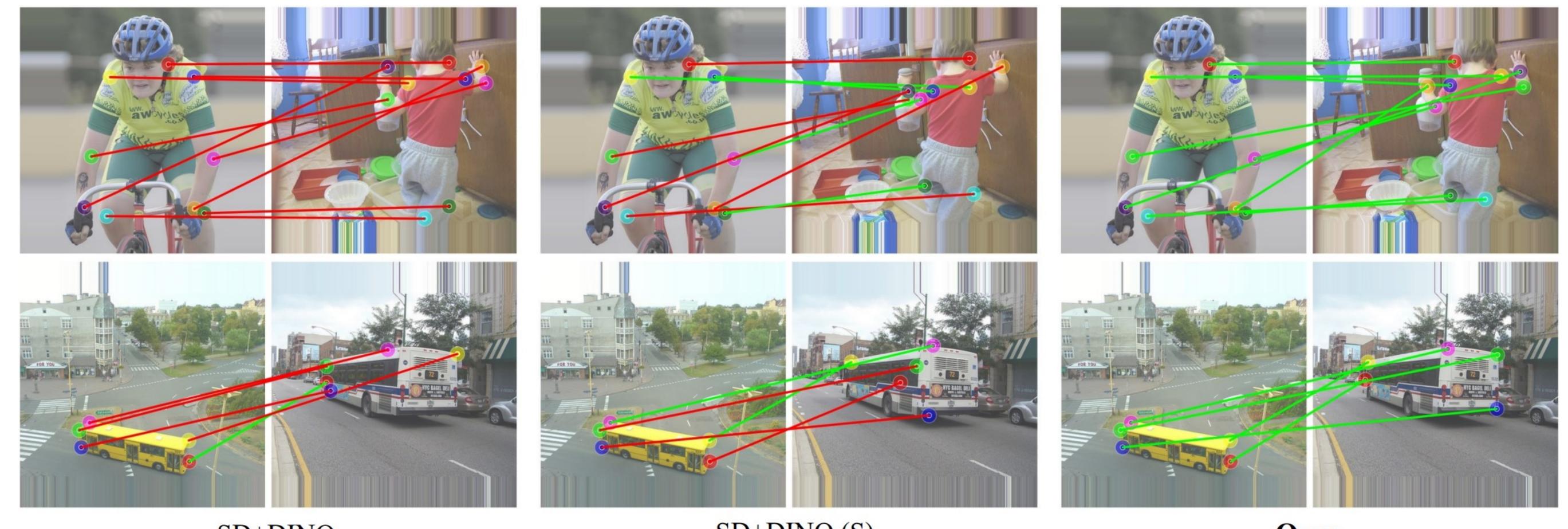
Augmented Pose

Original Image Pairs

With Aligned Pose

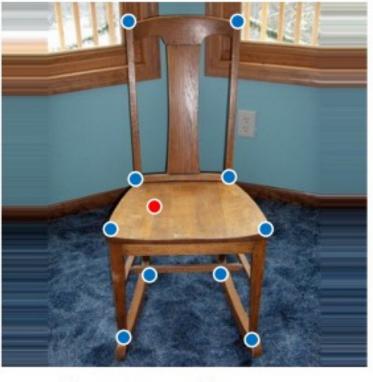


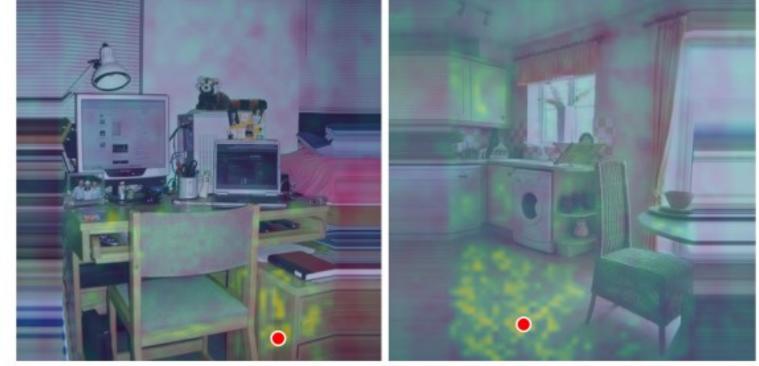
Pose-variant Pair Augmentation



SD+DINO

Similarity map. Ours can generalize to keypoints out of supervision





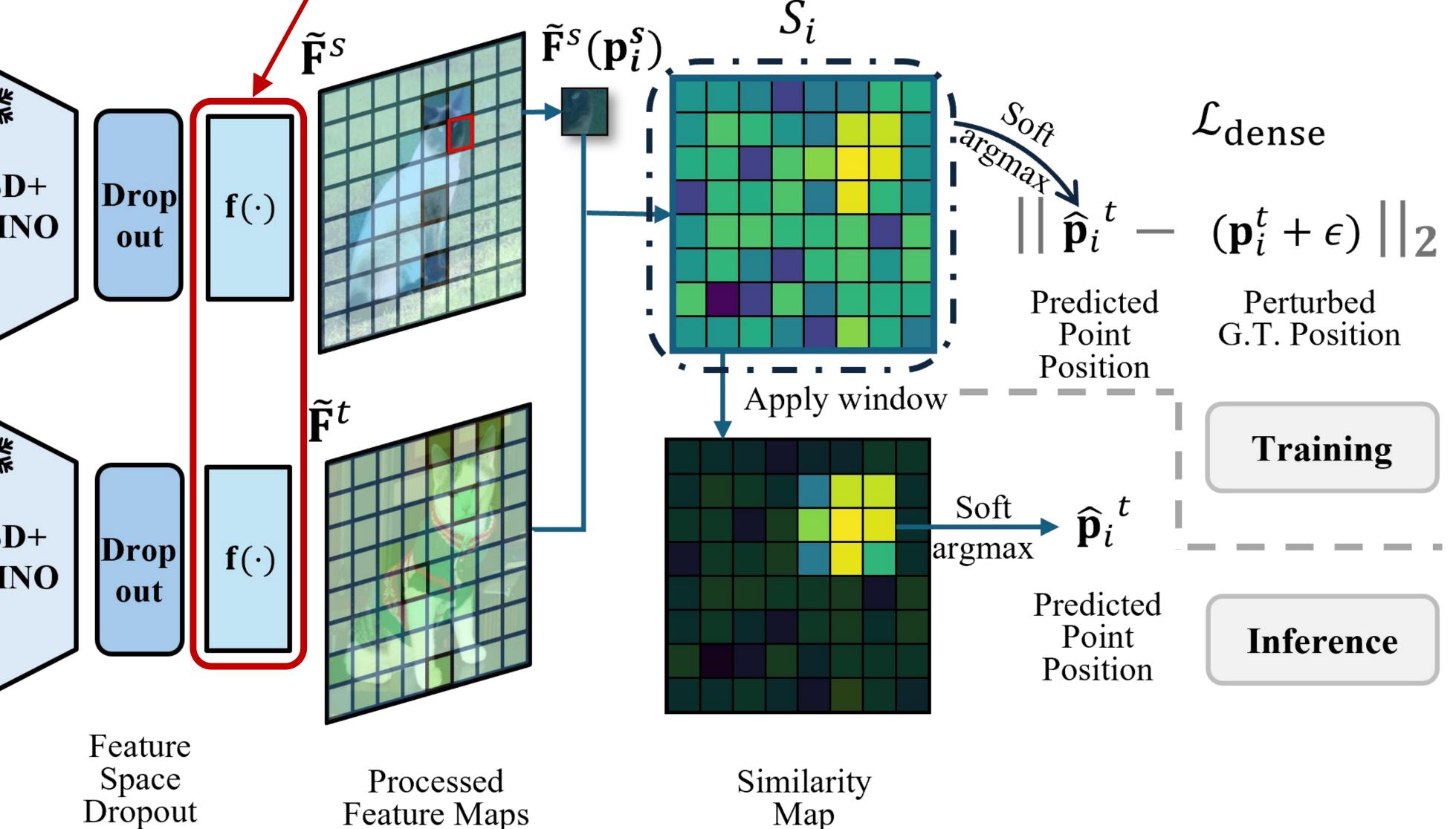
Source Image

5UC Merced



Approach

We train a **lightweight** feature refiner (only 5M paras & 0.2%) extra runtime) to improve geo-aware semantic correspondence



Qualitative Comparison

Sparse matching. Ours excels in cases of extreme viewpoint variations

SD+DINO(S)

Ours







SD+DINO

SD+DINO (S)

Ours