

Object Generalization: Accuracy-Coverage Tradeoff for GPU-MLP (Medium-HighReg)

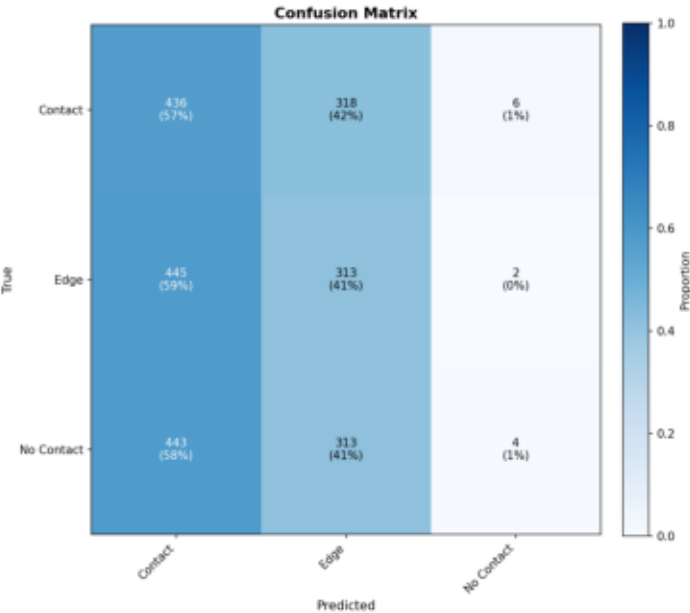
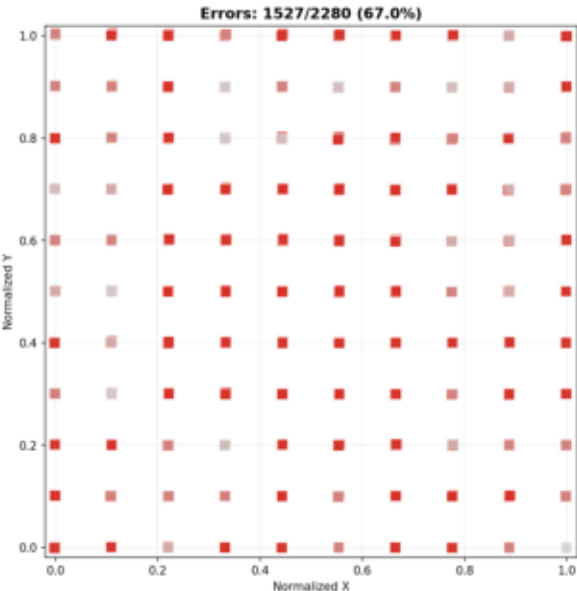
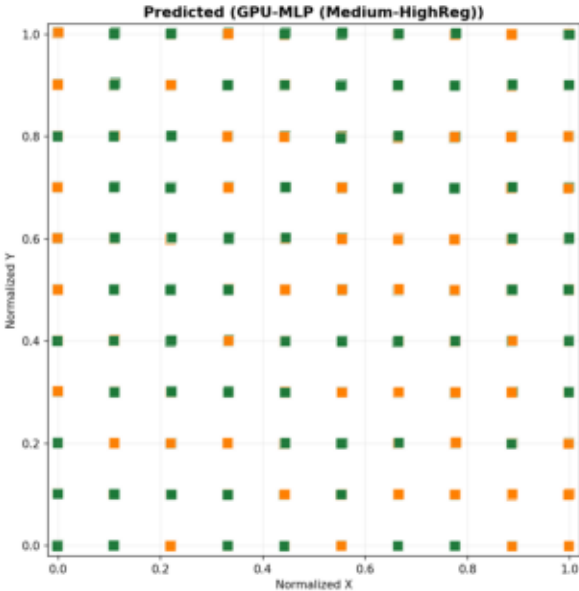
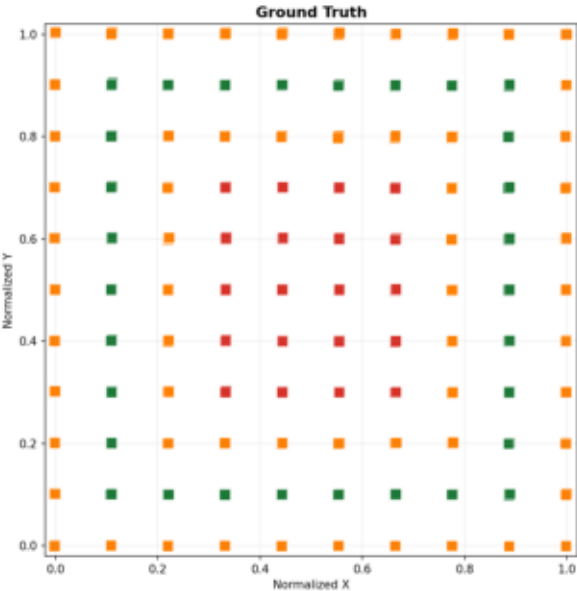
Trained on Objects A, B, C (WS1+WS2+WS3) — Validated on Object D (WS4)

No Confidence Filtering: 33.03% Accuracy (Random Chance)
All 2,280 spatial positions evaluated

Confidence Filtering (≥ 0.7): 75.00% Accuracy
Only 4/2,280 positions (0.2%) above threshold

Surface Reconstruction: fully_balanced_datasets/workspace_4_balanced
Model: GPU-MLP (Medium-HighReg) | Accuracy: 33.0%

Legend: Contact (Green), No Contact (Red), Edge (Orange)



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