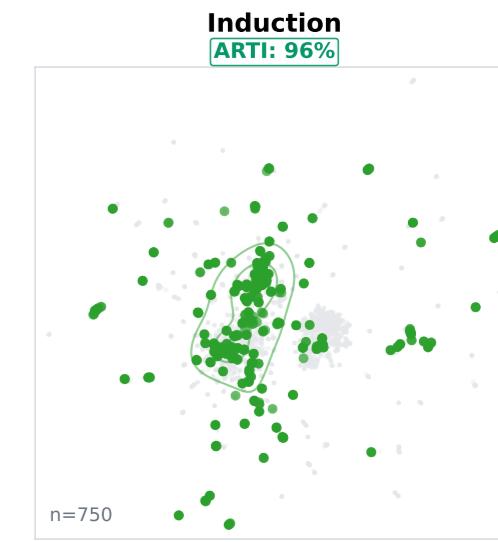
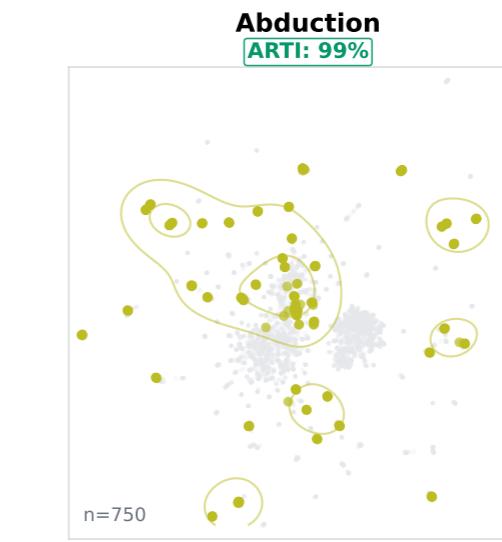
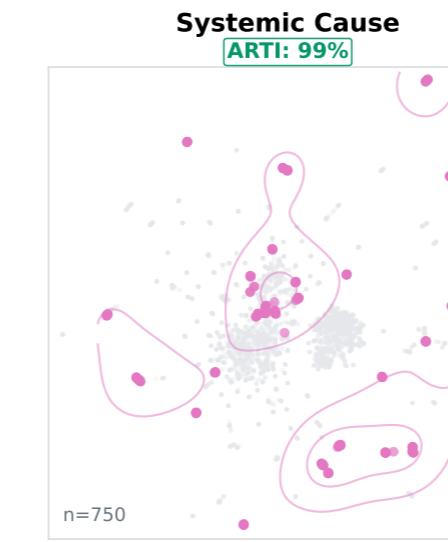
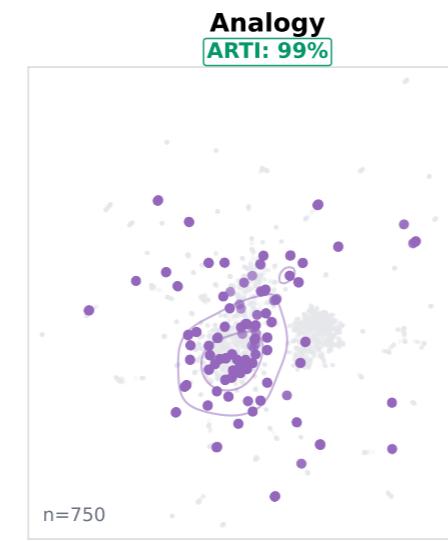
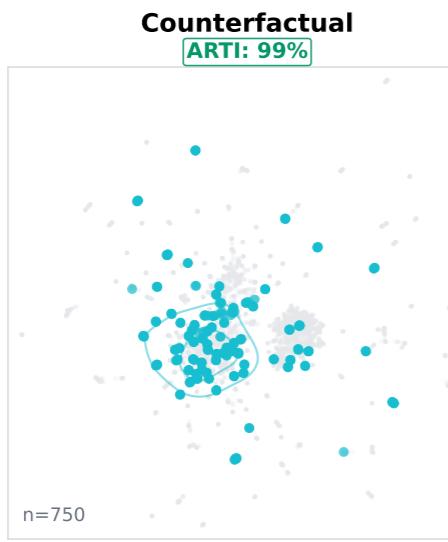
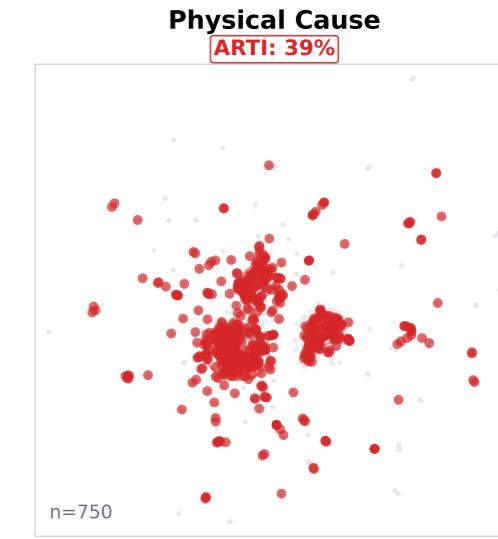
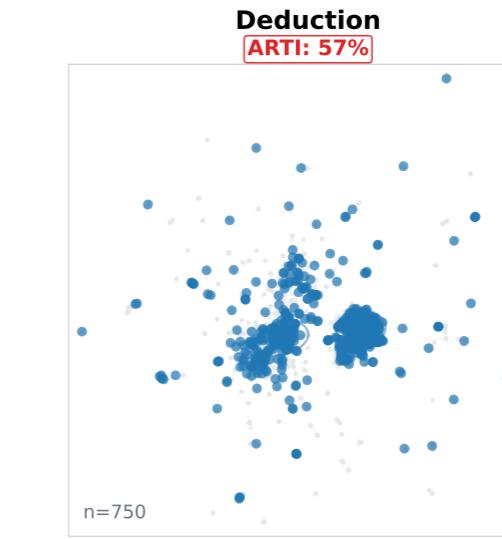
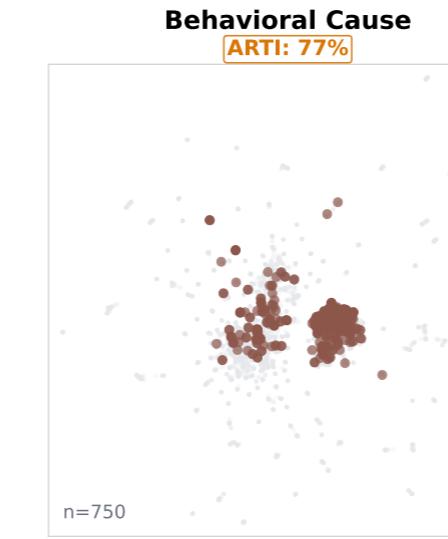
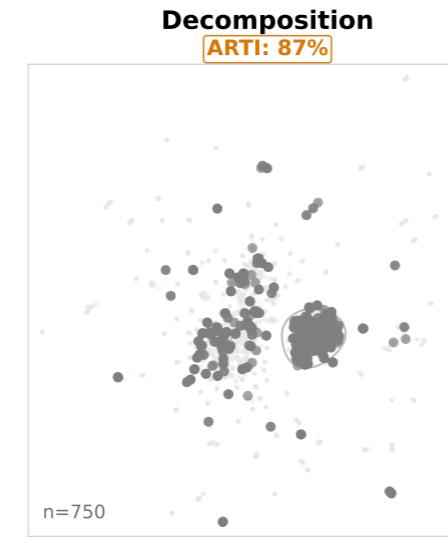
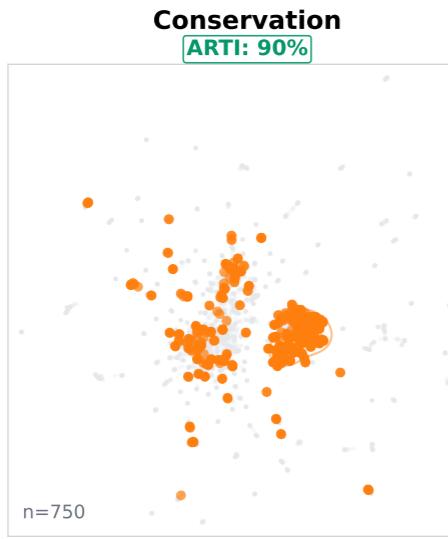


# Geometric Signatures of 10 Reasoning Types (384D → UMAP 2D)

Strong geometric signal (>90%)



Weaker / overlapping signal (<90%)



Each panel highlights one reasoning type (color) against all others (gray). Density contours show cluster shape.  
Top row: types with strong, well-separated geometric clusters (ARTI >90%). Bottom row: types with diffuse or overlapping geometry.