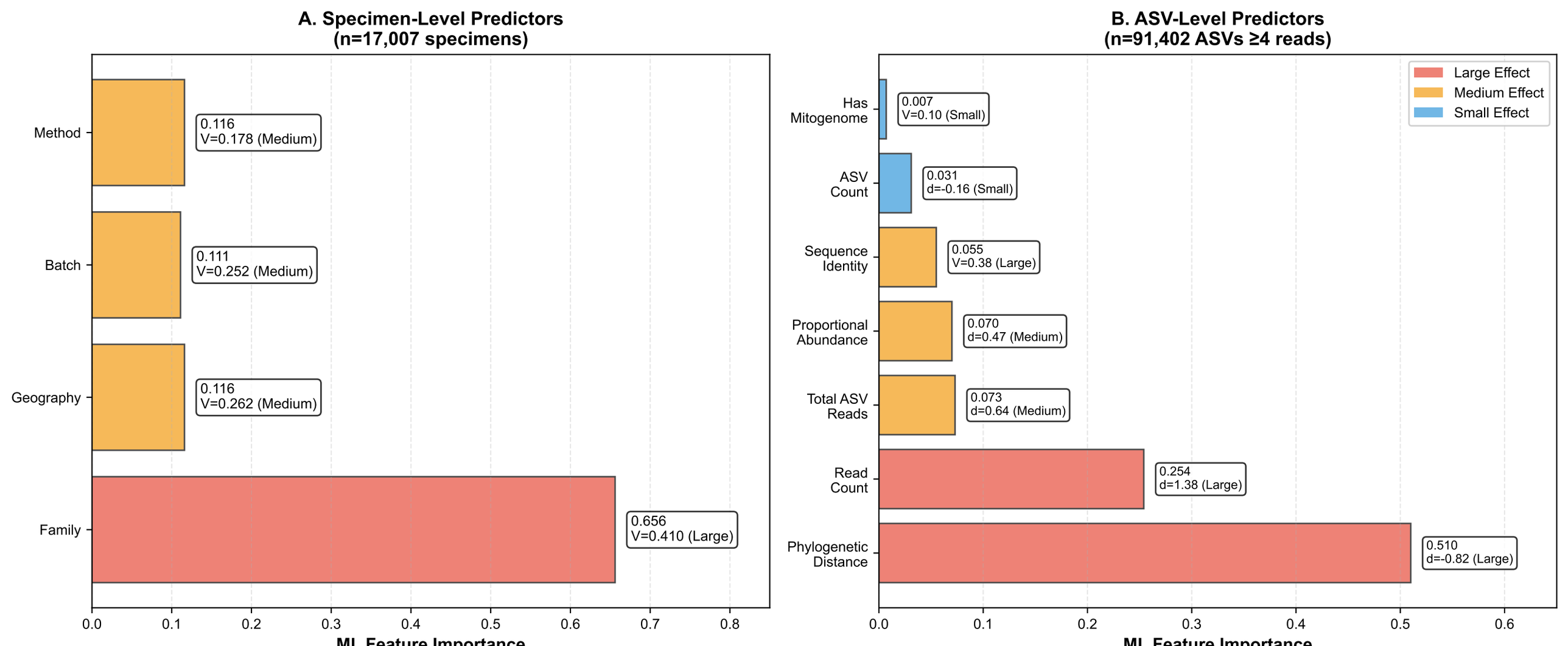
A. Specimen-Level Predictors
(n=17,007 specimens)
Method
0.116
V=0.178 (Medium)
Batch
0.111
V=0.252 (Medium)
Geography
0.116
V=0.262 (Medium)
Family
0.656
V=0.410 (Large)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
ML Feature Importance
B. ASV-Level Predictors
(n=91,402 ASVs ≥4 reads)
Large Effect
Medium Effect
Small Effect
Has Mitogenome
0.007
V=0.10 (Small)
ASV Count
0.031
d=-0.16 (Small)
Sequence Identity
0.055
V=0.38 (Large)
Proportional Abundance
0.070
d=0.47 (Medium)
Total ASV Reads
0.073
d=0.64 (Medium)
Read Count
0.254
d=1.38 (Large)
Phylogenetic Distance
0.510
d=-0.82 (Large)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
ML Feature Importance