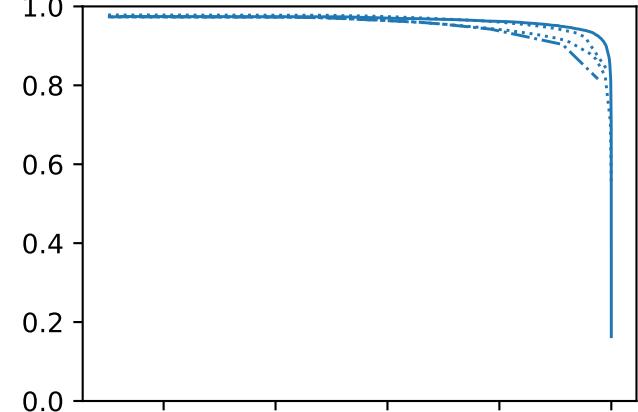


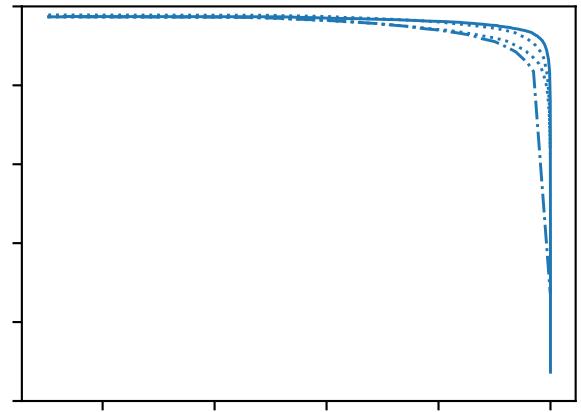
How to Read: Line Style -> Loss; Color -> Algorithm

- | | | | |
|-------------|-----------------|-------------|--------------|
| — Softmax | — Objectosphere | ··· ArcOS-V | ···· CosOS-V |
| — Threshold | | | |
| | | — MaxLogits | |

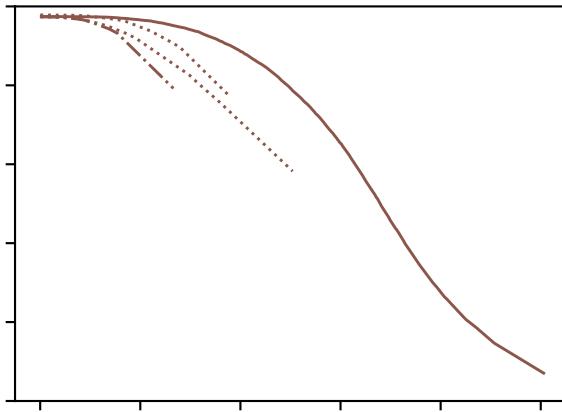
CCR Negative



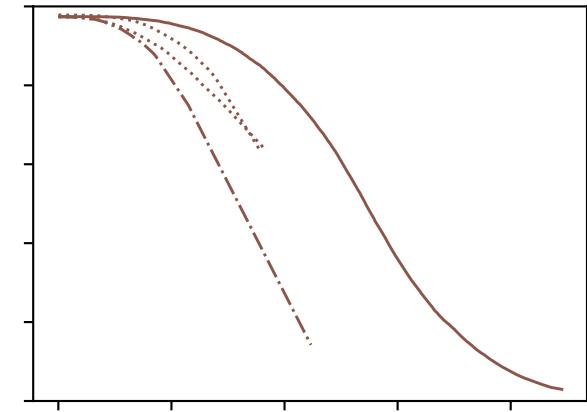
CCR Unknown



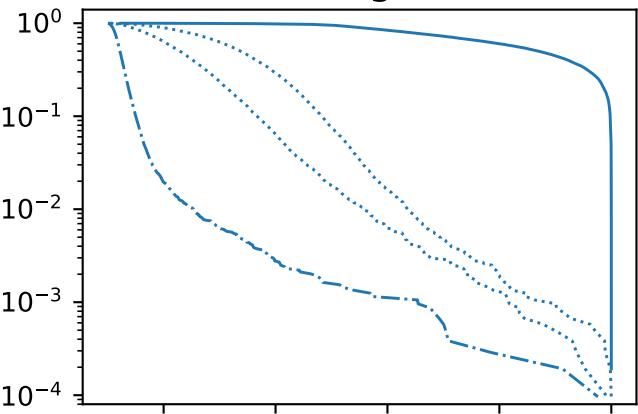
CCR Negative



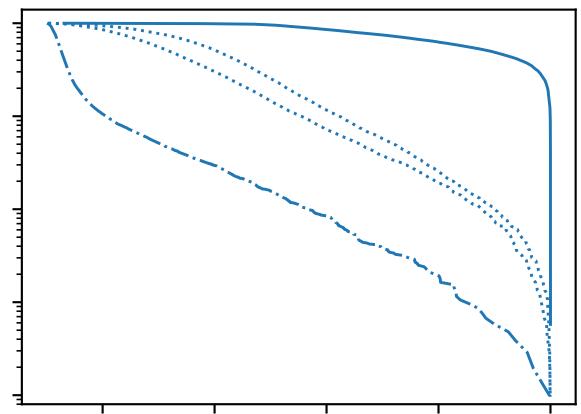
CCR Unknown



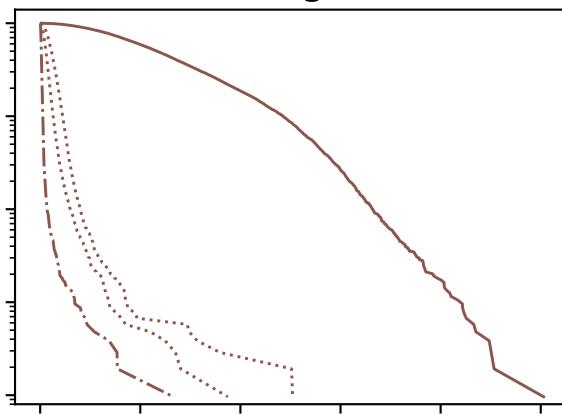
FPR Negative



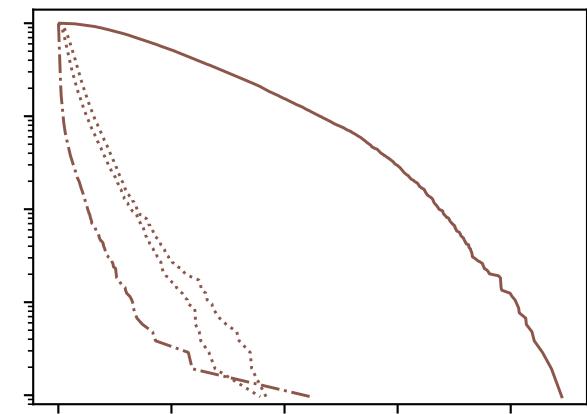
FPR Unknown



FPR Negative



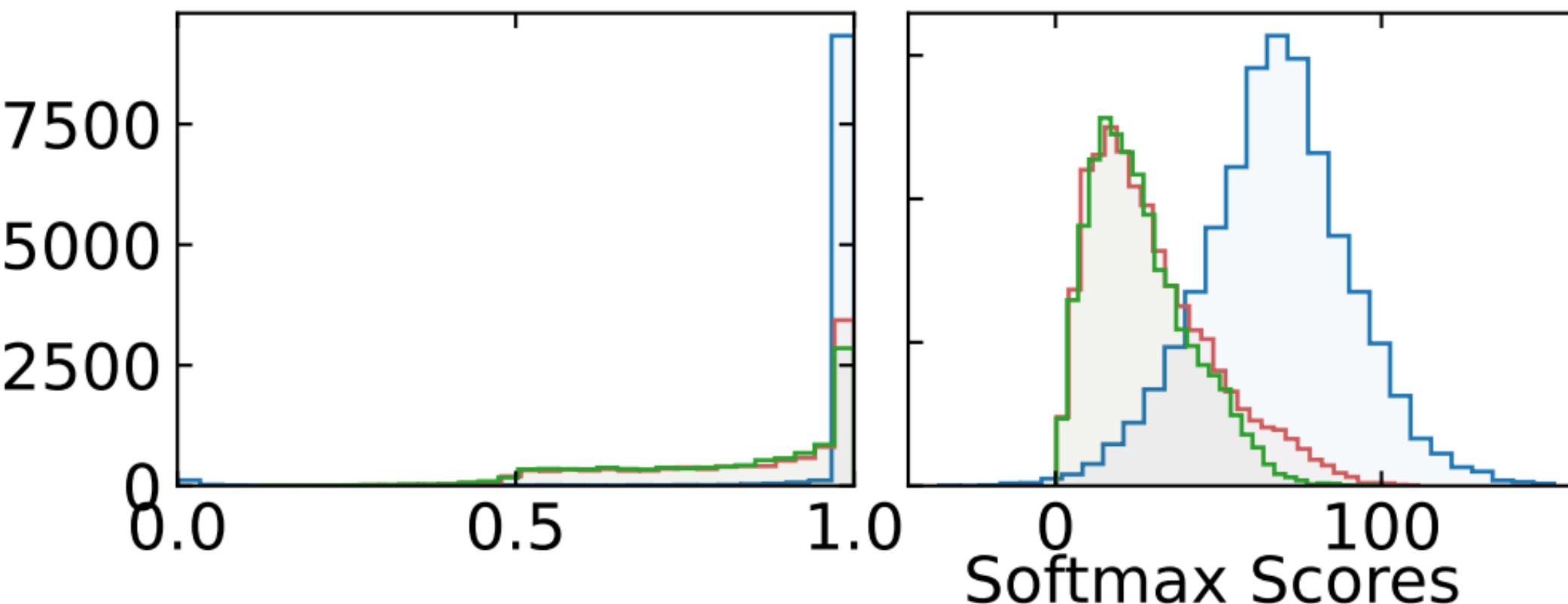
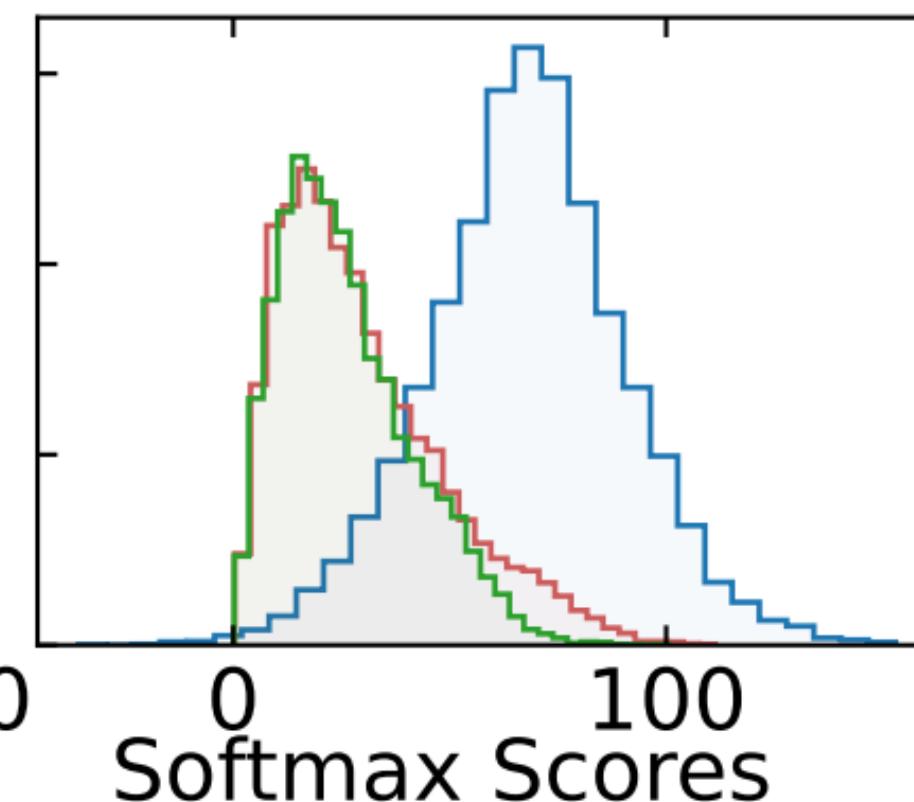
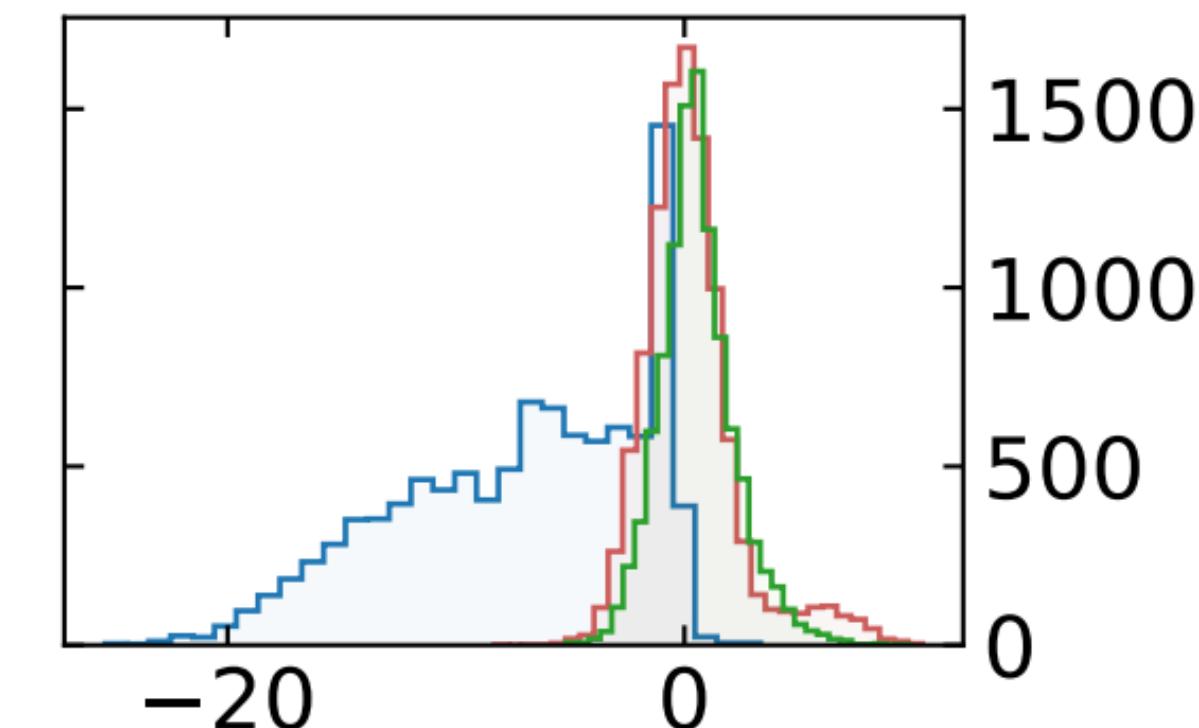
FPR Unknown



Threshold

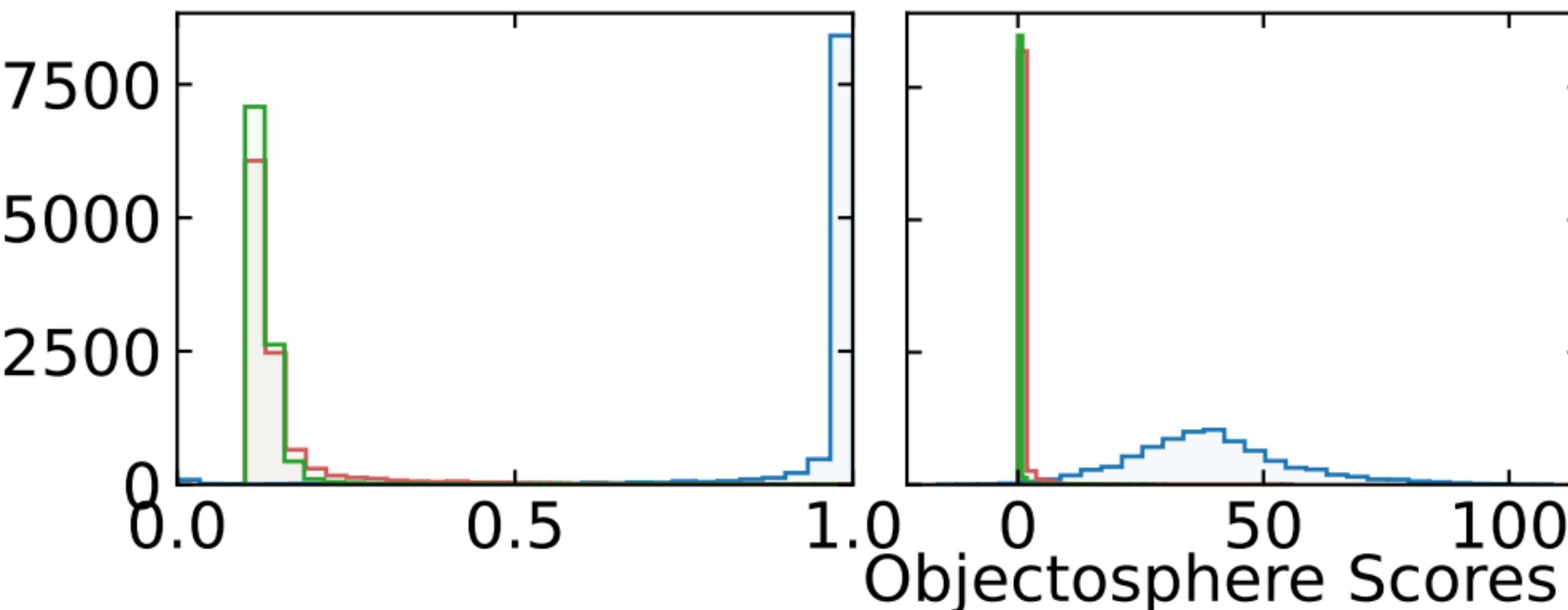
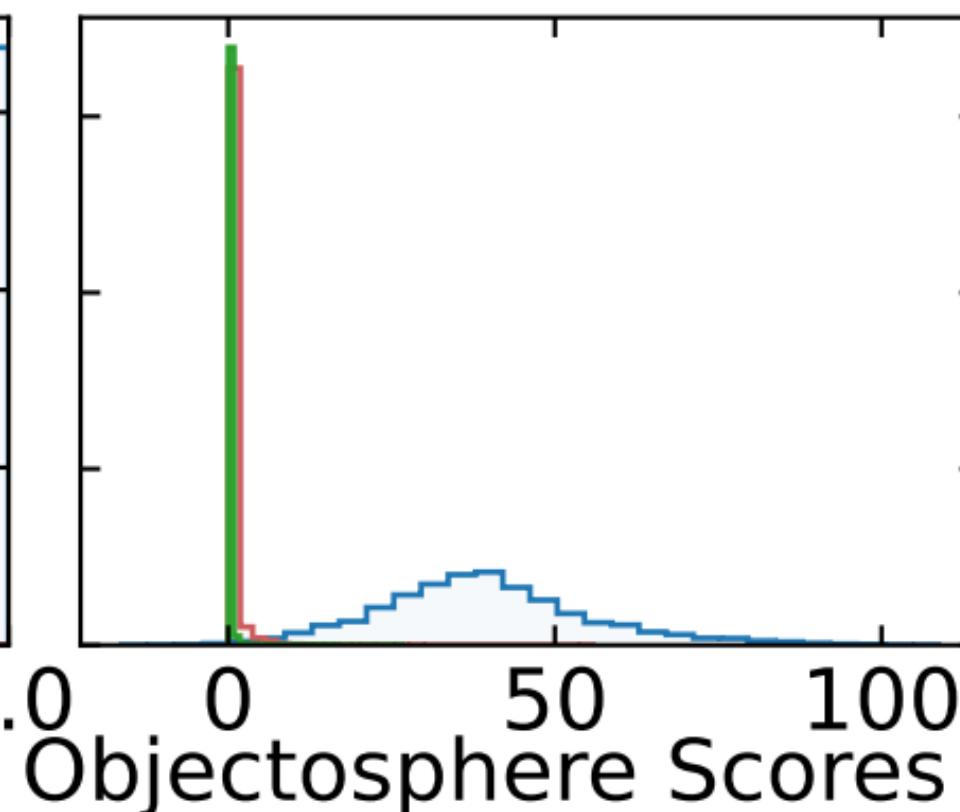
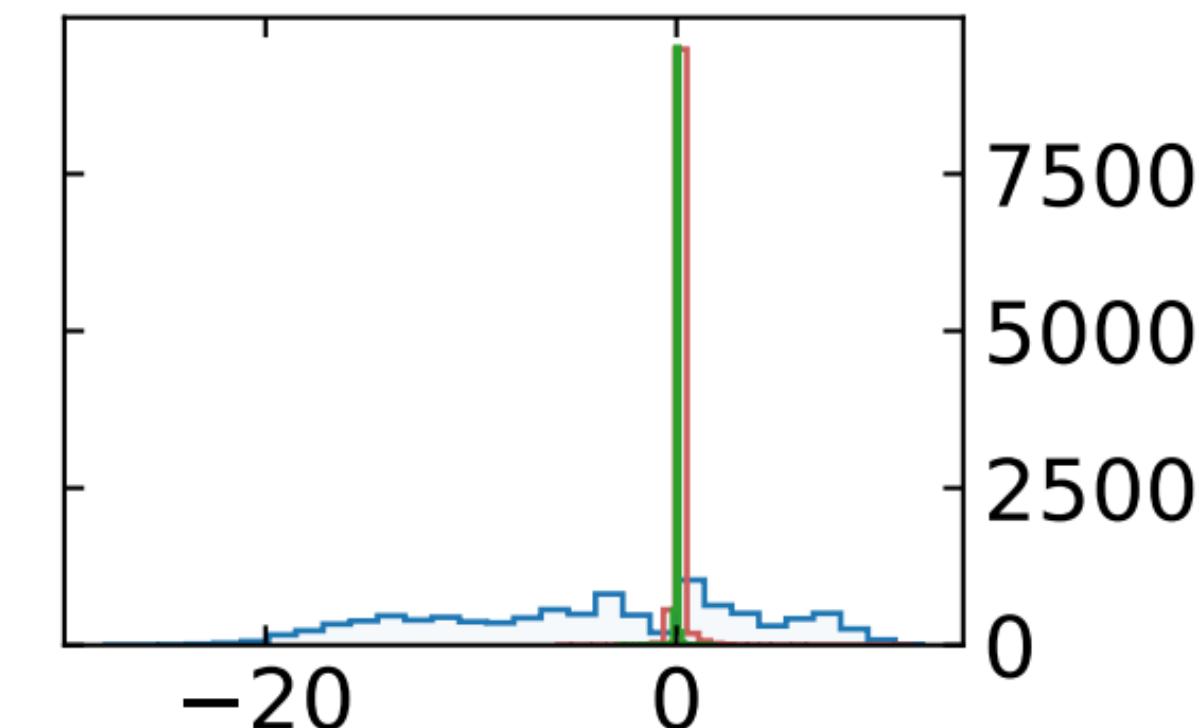
How to Read: Line Style -> Loss; Color -> Algorithm

— Softmax	- - Objectosphere ArcOS-V CosOS-V
— Threshold	- - MaxLogits		

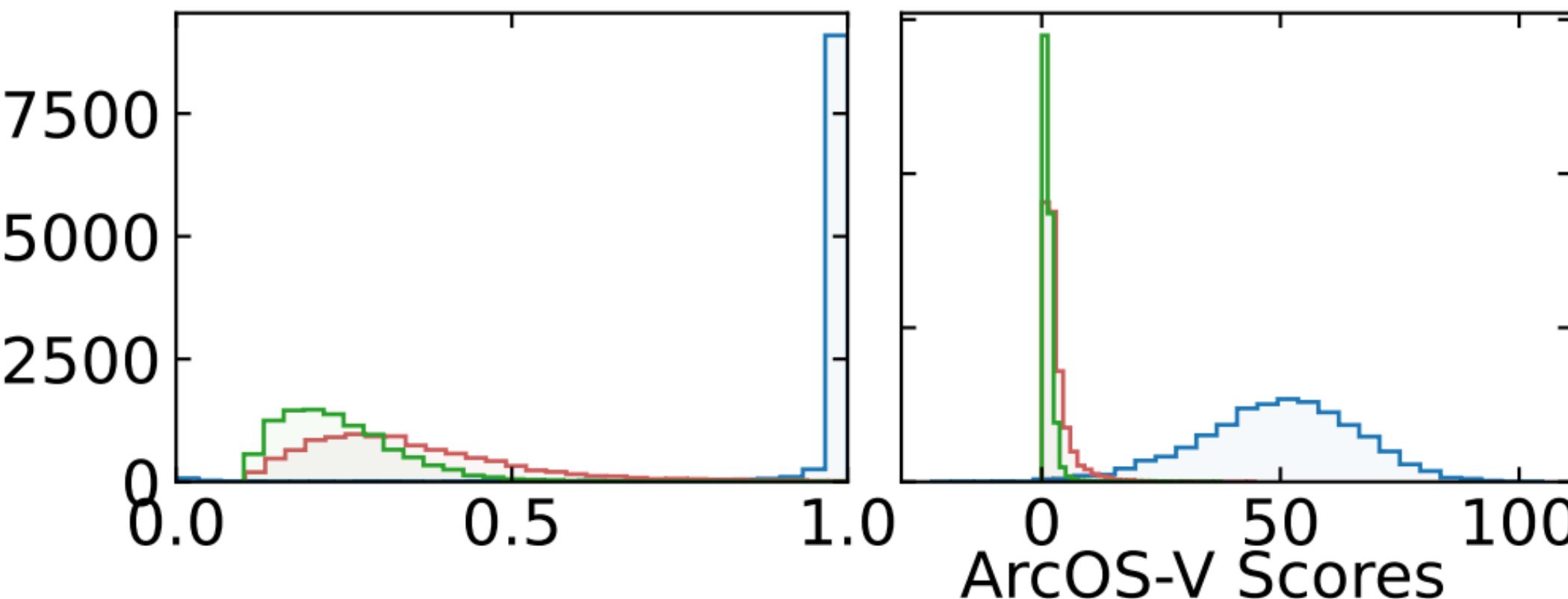
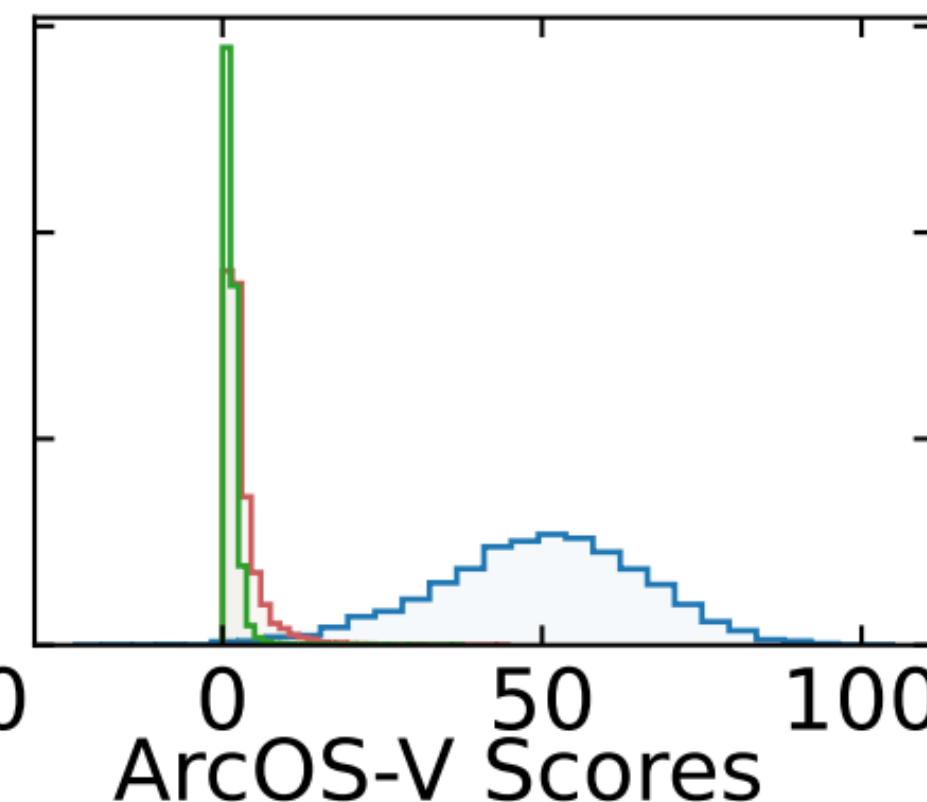
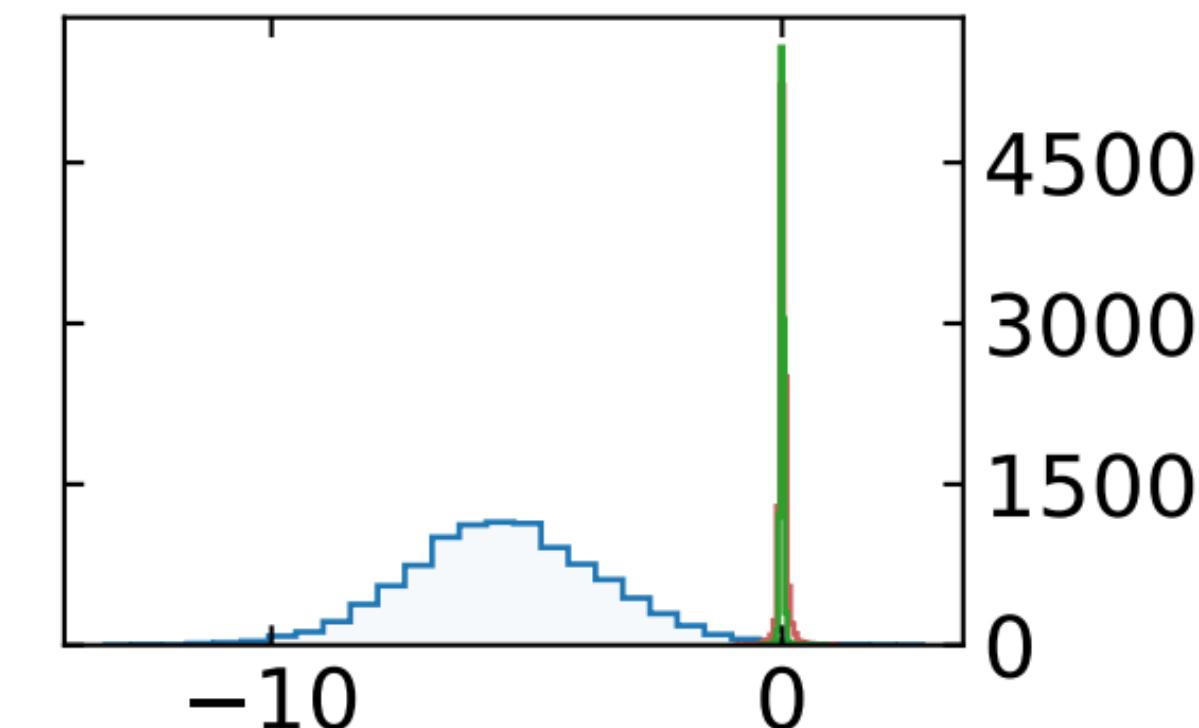
P_0 Threshold P_0 MaxLogits P_0 AvgLogits (wrong class)

Softmax Scores

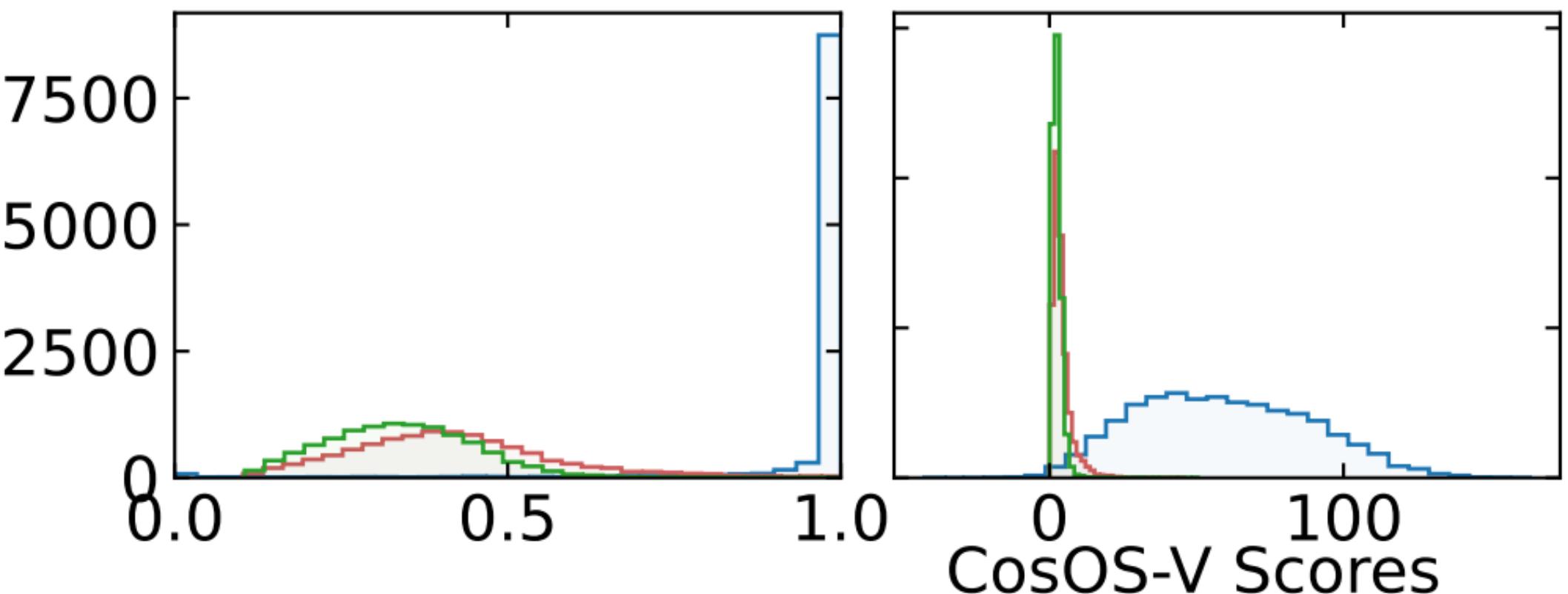
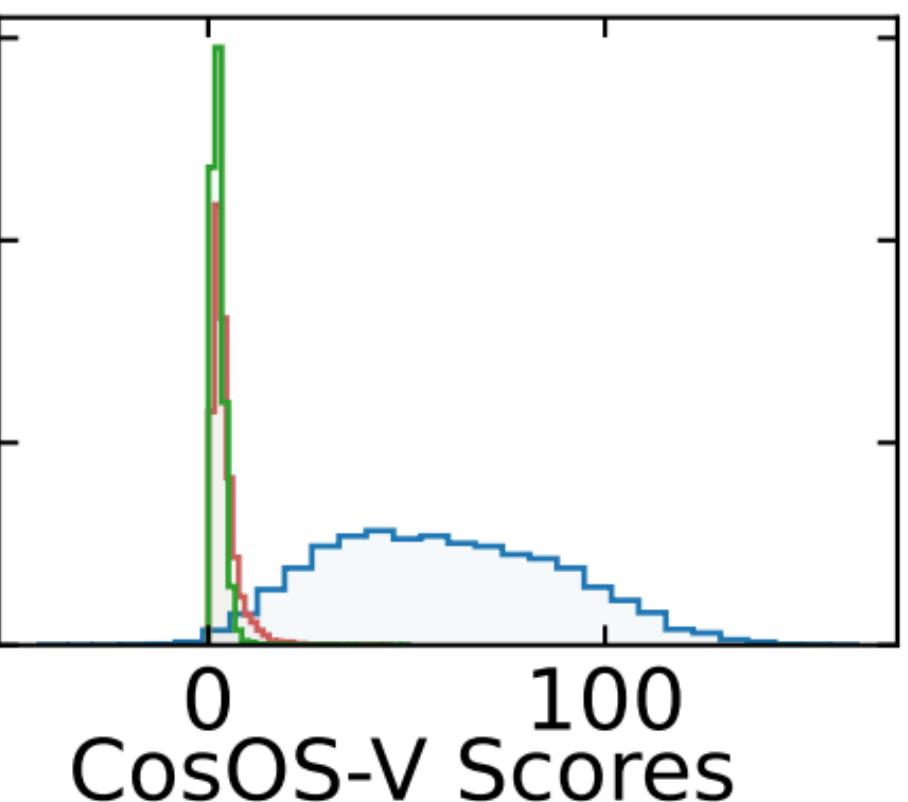
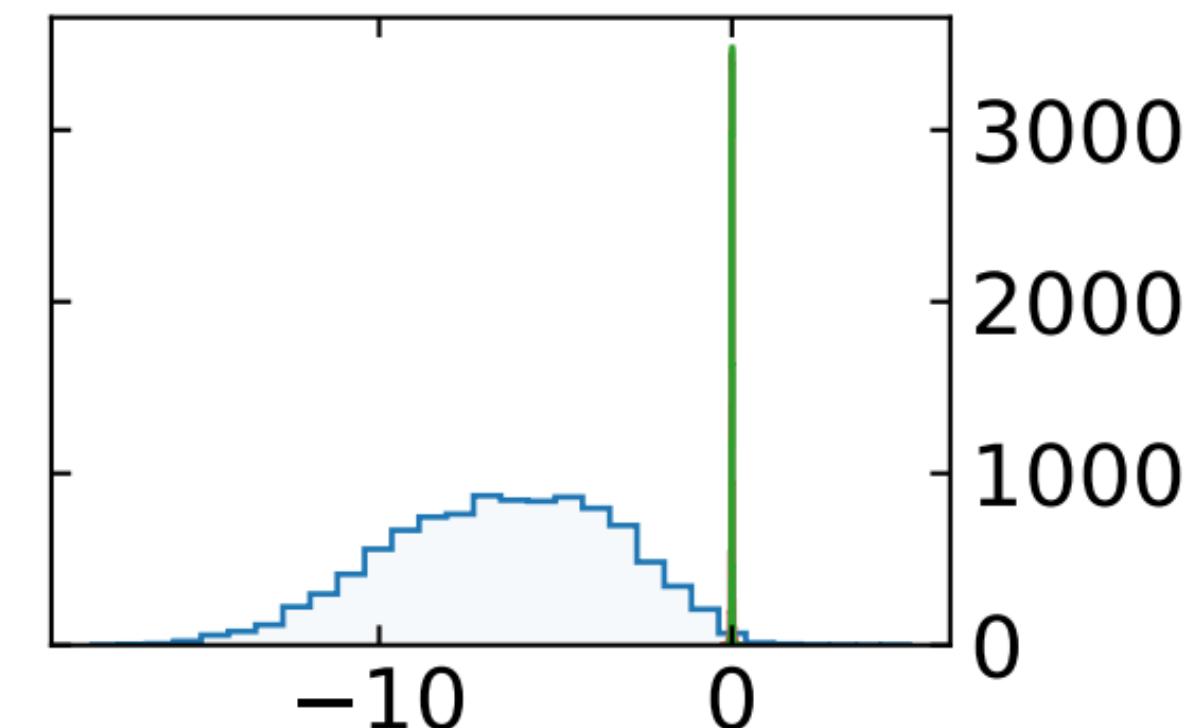
— Known — Negative — Unknown

P_0 Threshold P_0 MaxLogits P_0 AvgLogits (wrong class)

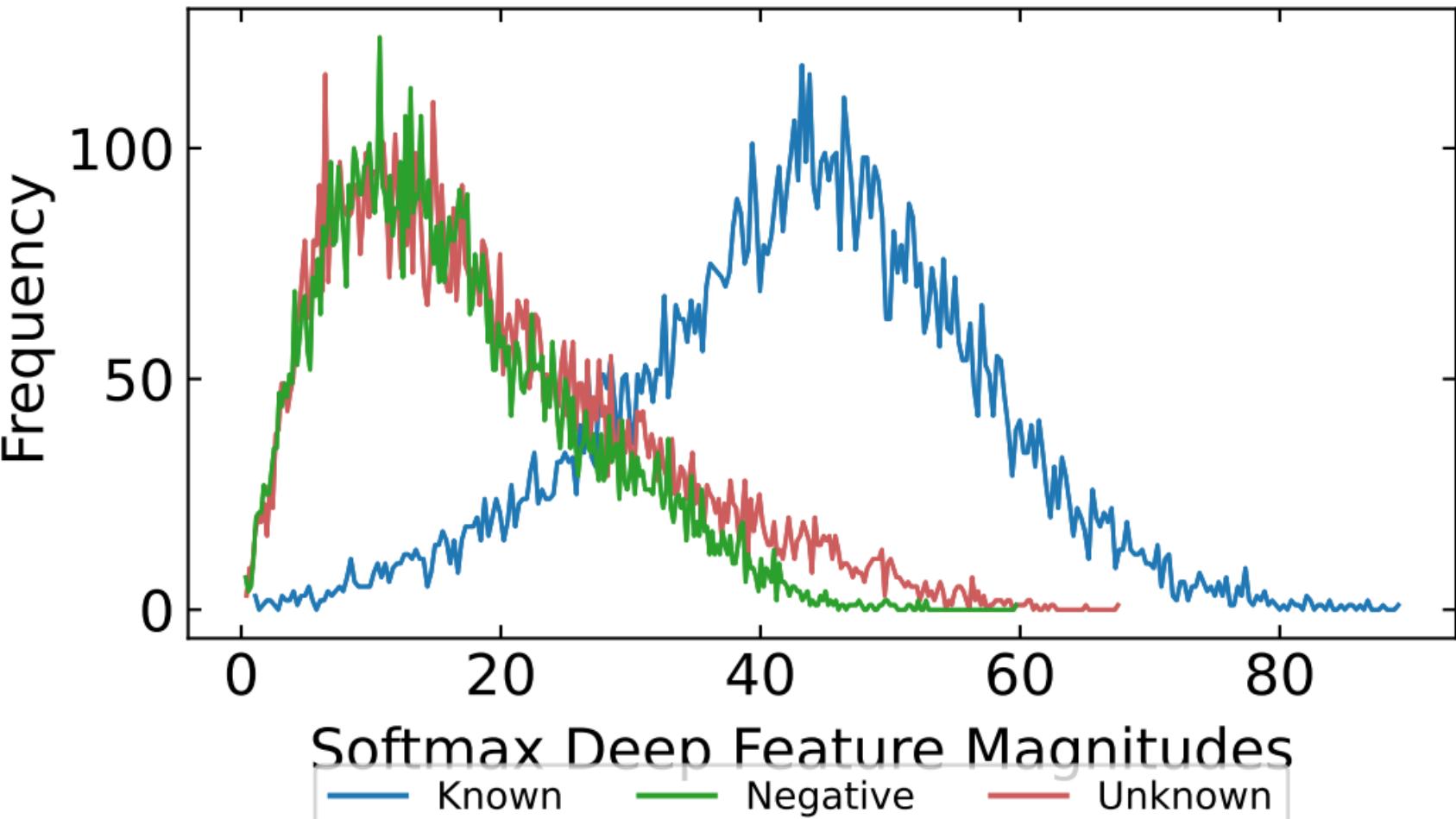
— Known — Negative — Unknown

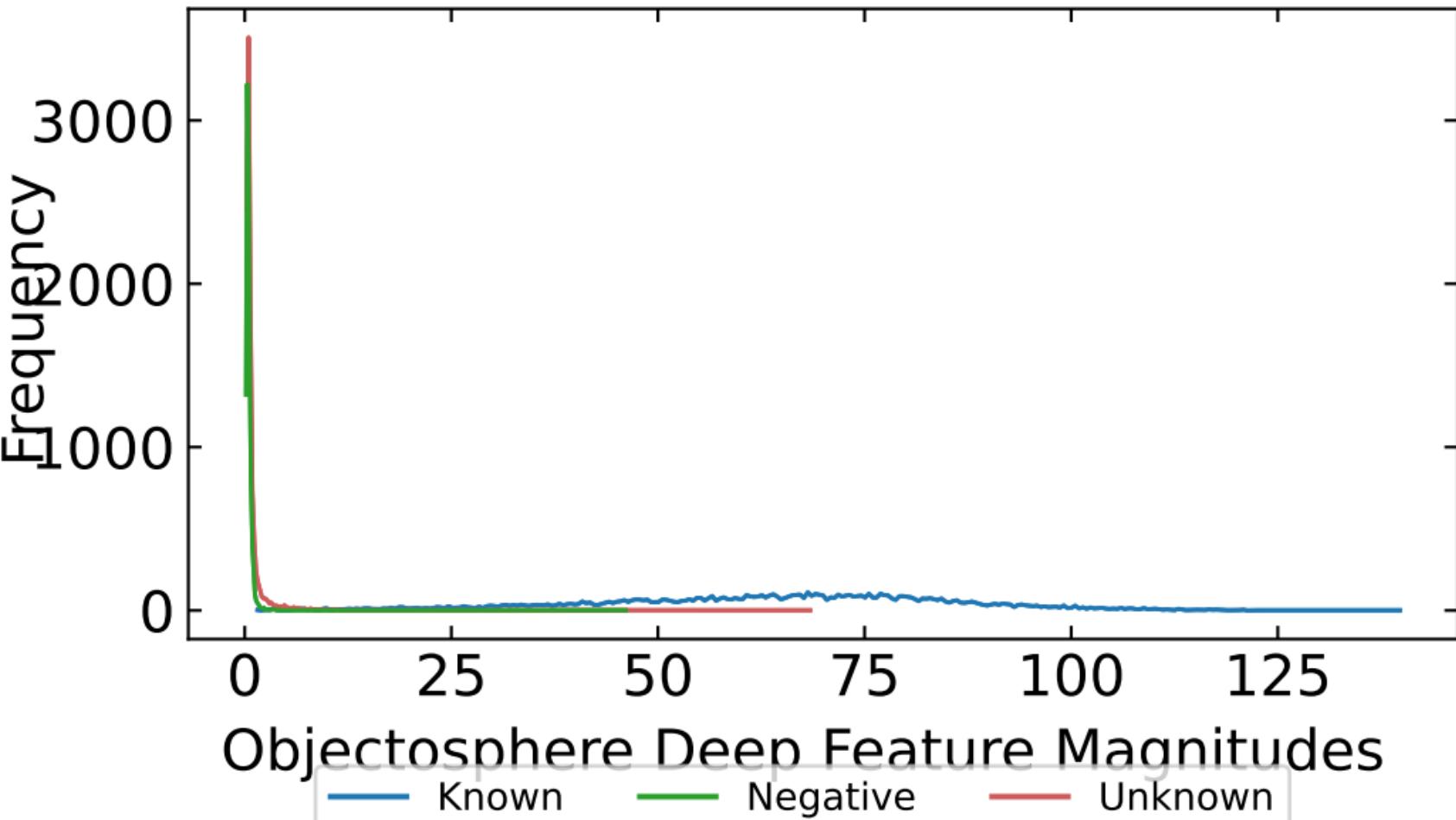
P_0 Threshold P_0 MaxLogits P_0 AvgLogits (wrong class)

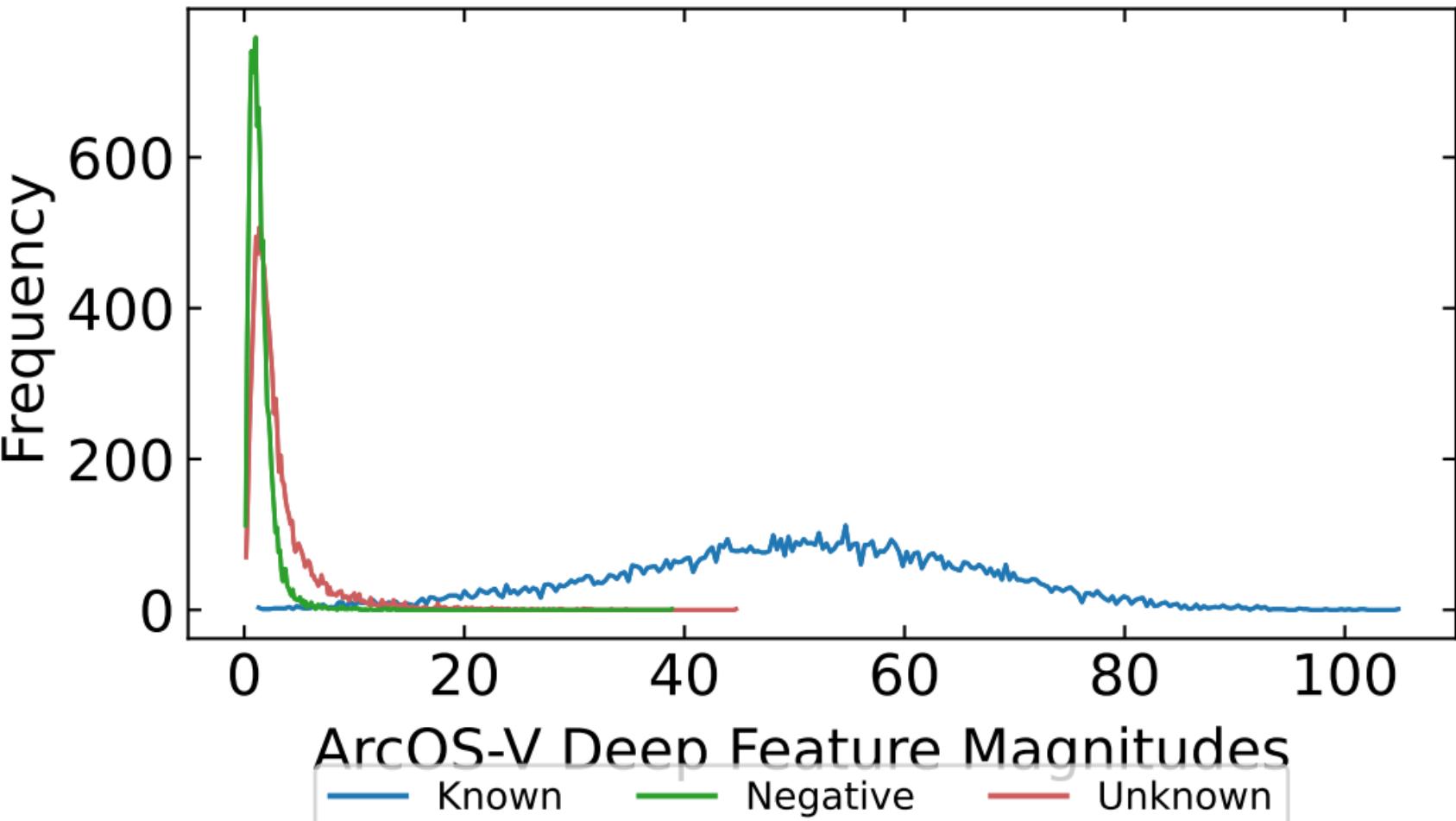
— Known — Negative — Unknown

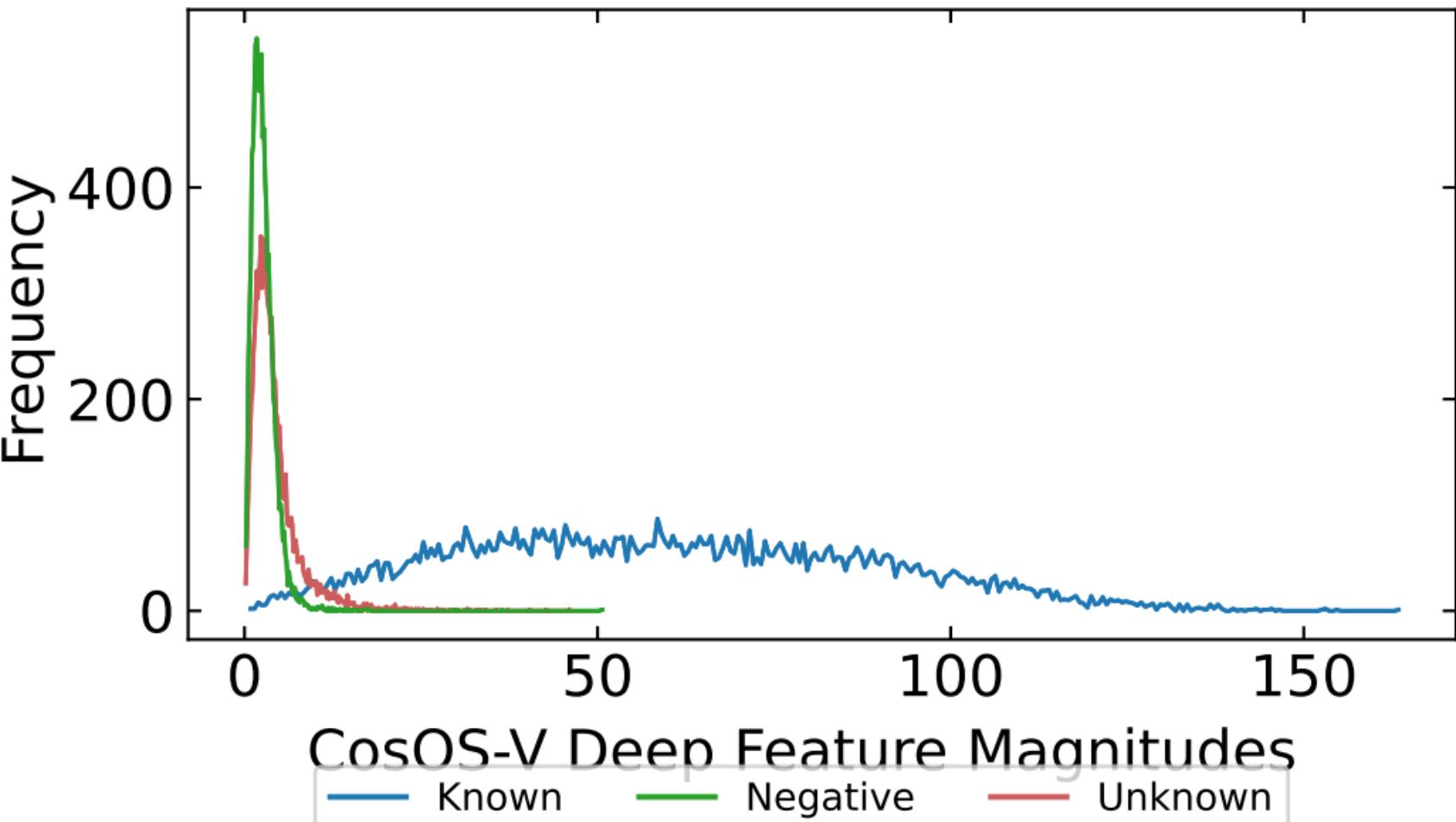
P_0 Threshold P_0 MaxLogits P_0 AvgLogits (wrong class)

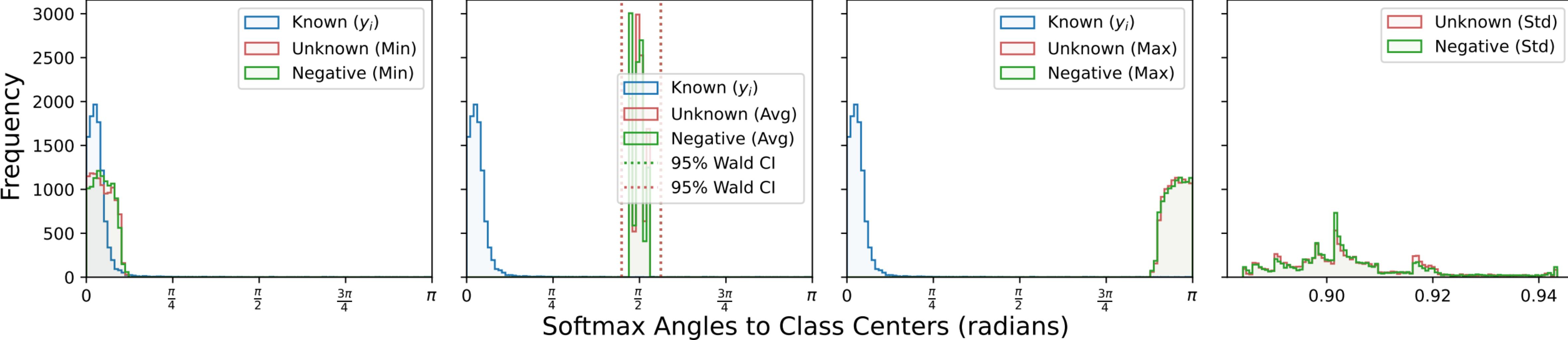
— Known — Negative — Unknown

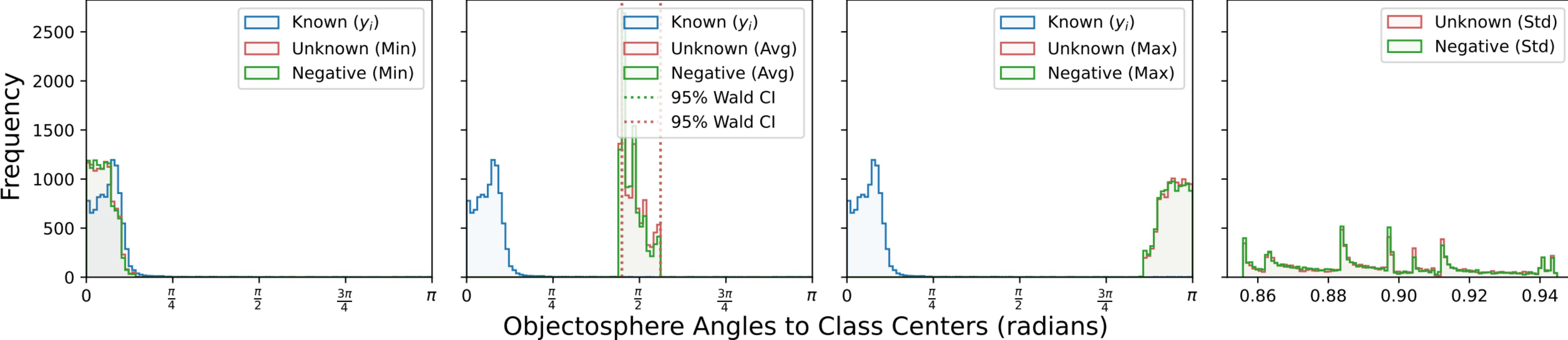
P_0 Threshold/MaxLogits

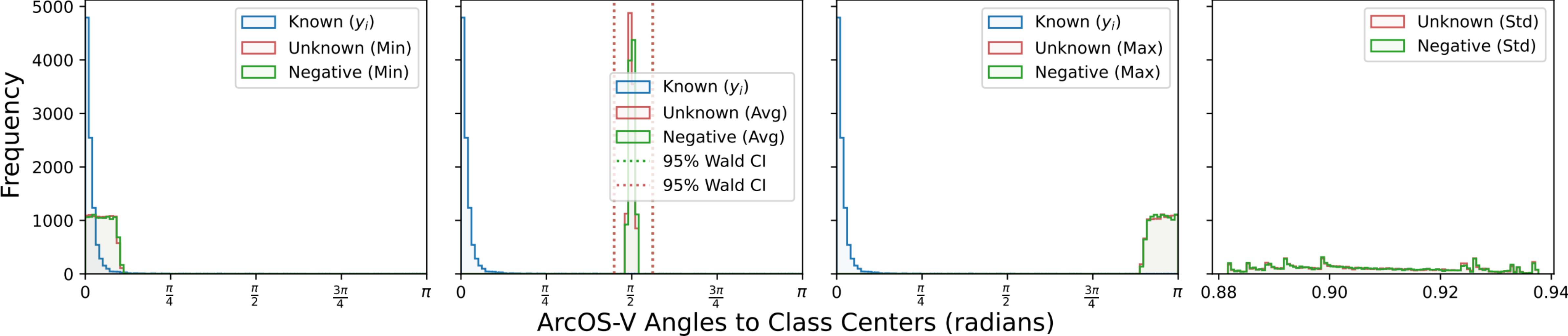
P_0 Threshold/MaxLogits

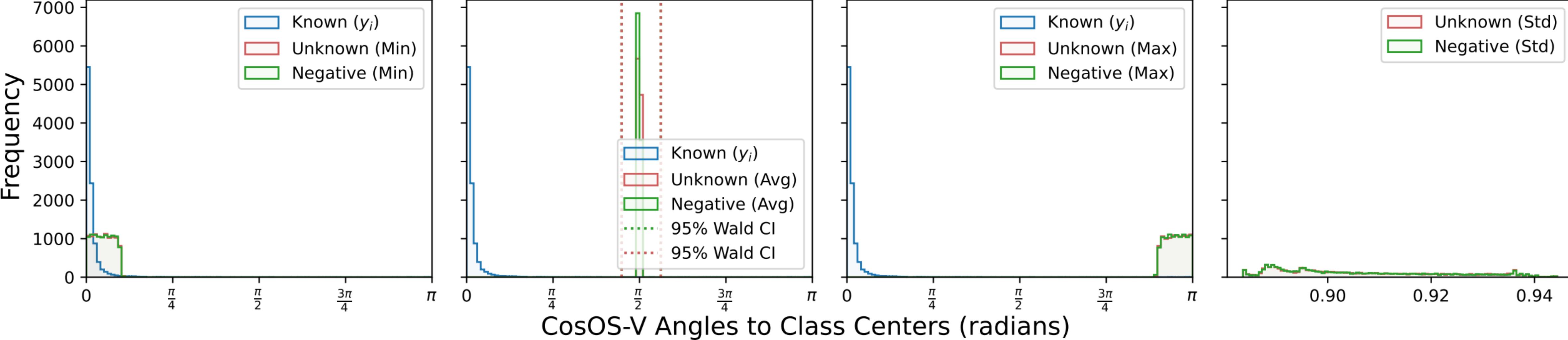
P_0 Threshold/MaxLogits

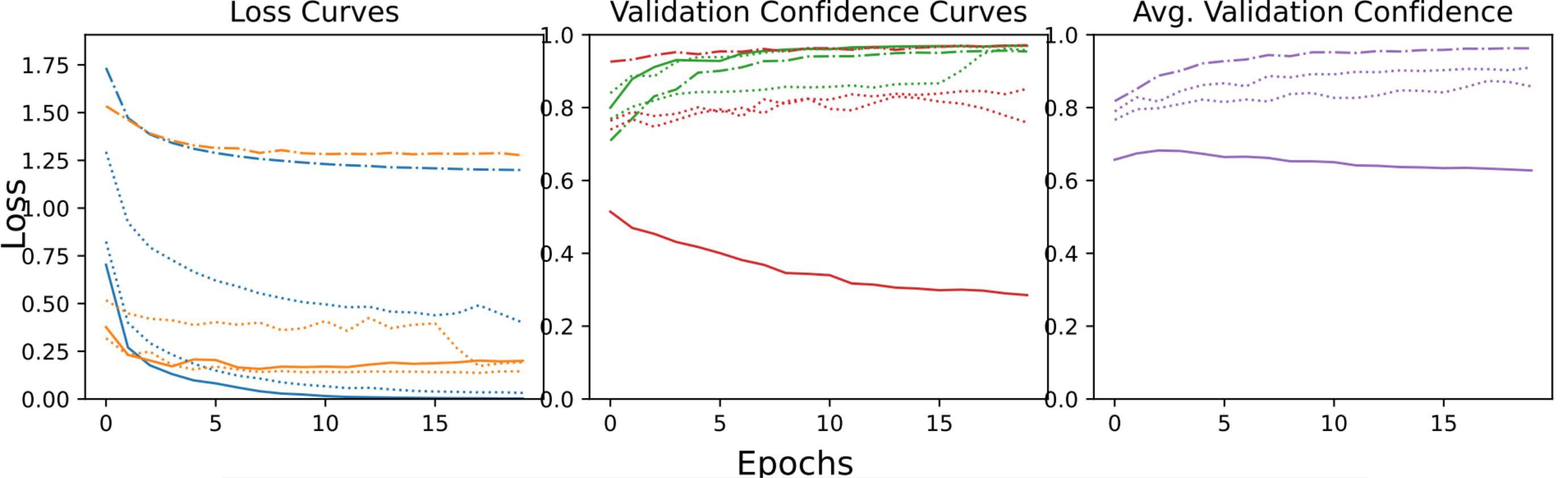
P_0 Threshold/MaxLogits





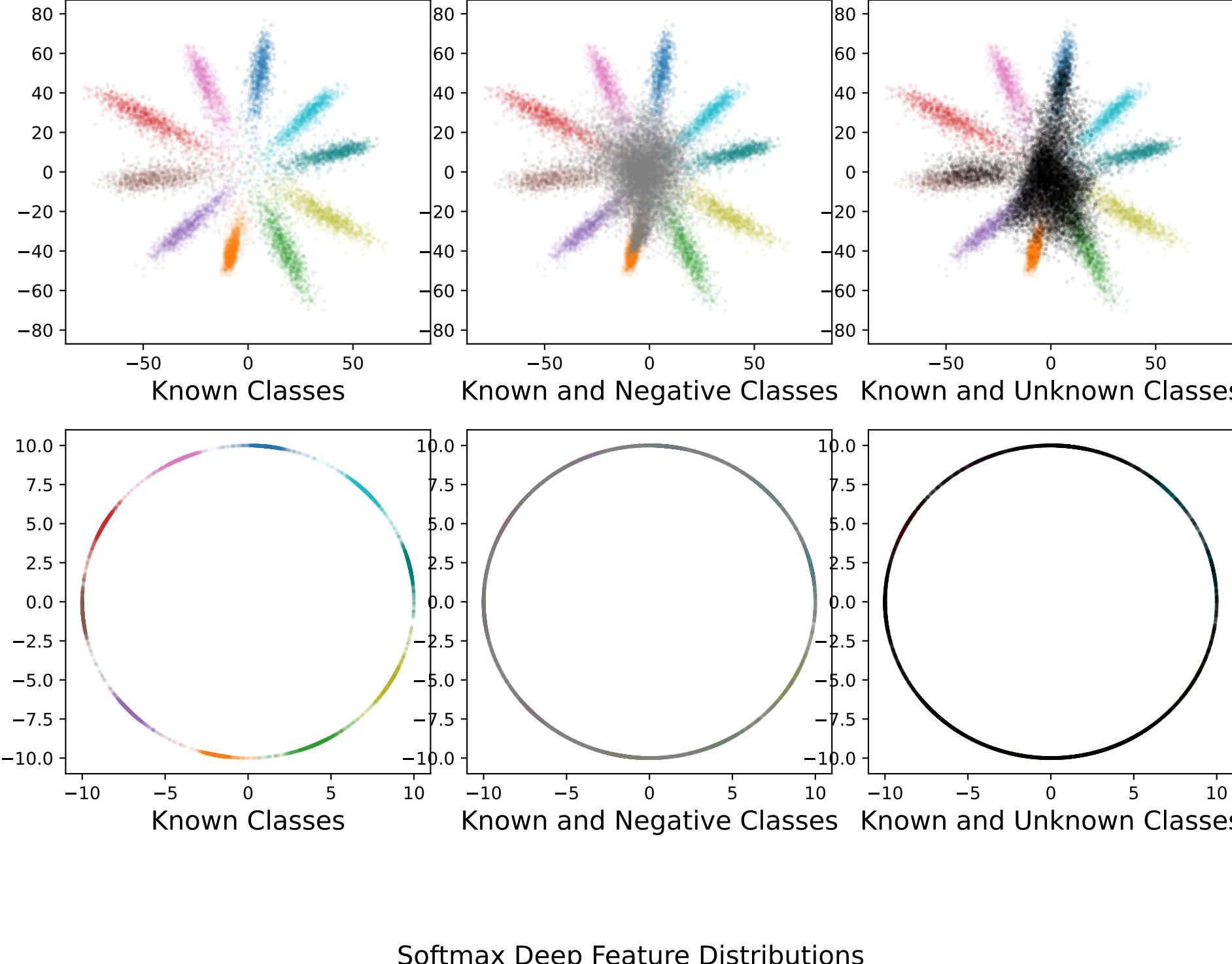




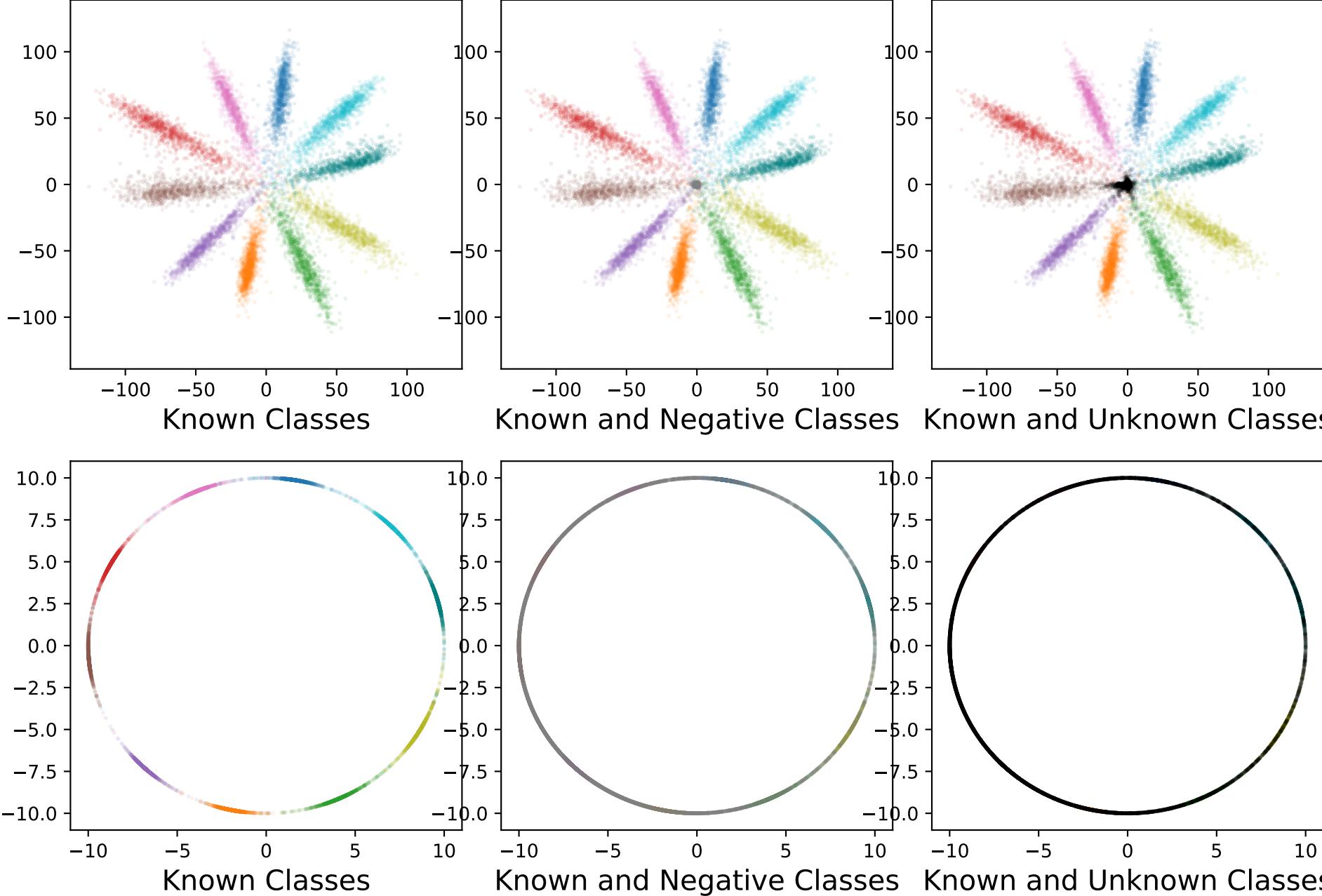


How to Read: Line Style -> Loss Function; Color -> What

Line Style	Loss Function	Color	What
Solid	Softmax	Black	Training Loss
Dashed	Objectosphere	Blue	Validation Loss
Dotted	ArcOS-V	Green	Conf. Known
Dash-dot	CosOS-V	Red	Conf. Unknown
Long-dash-dot		Purple	Avg. Conf.

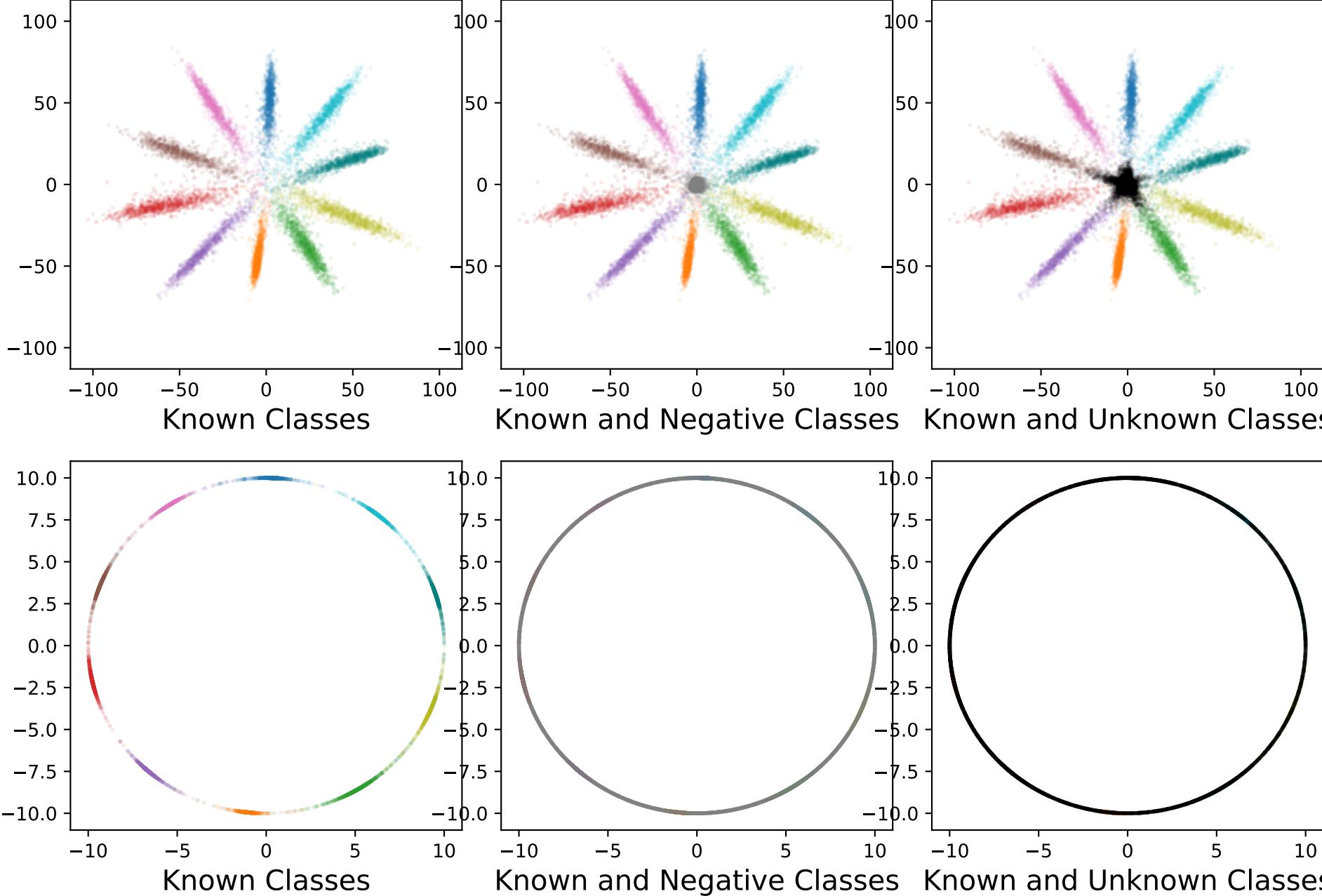


— Unknown — Negative — 0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9



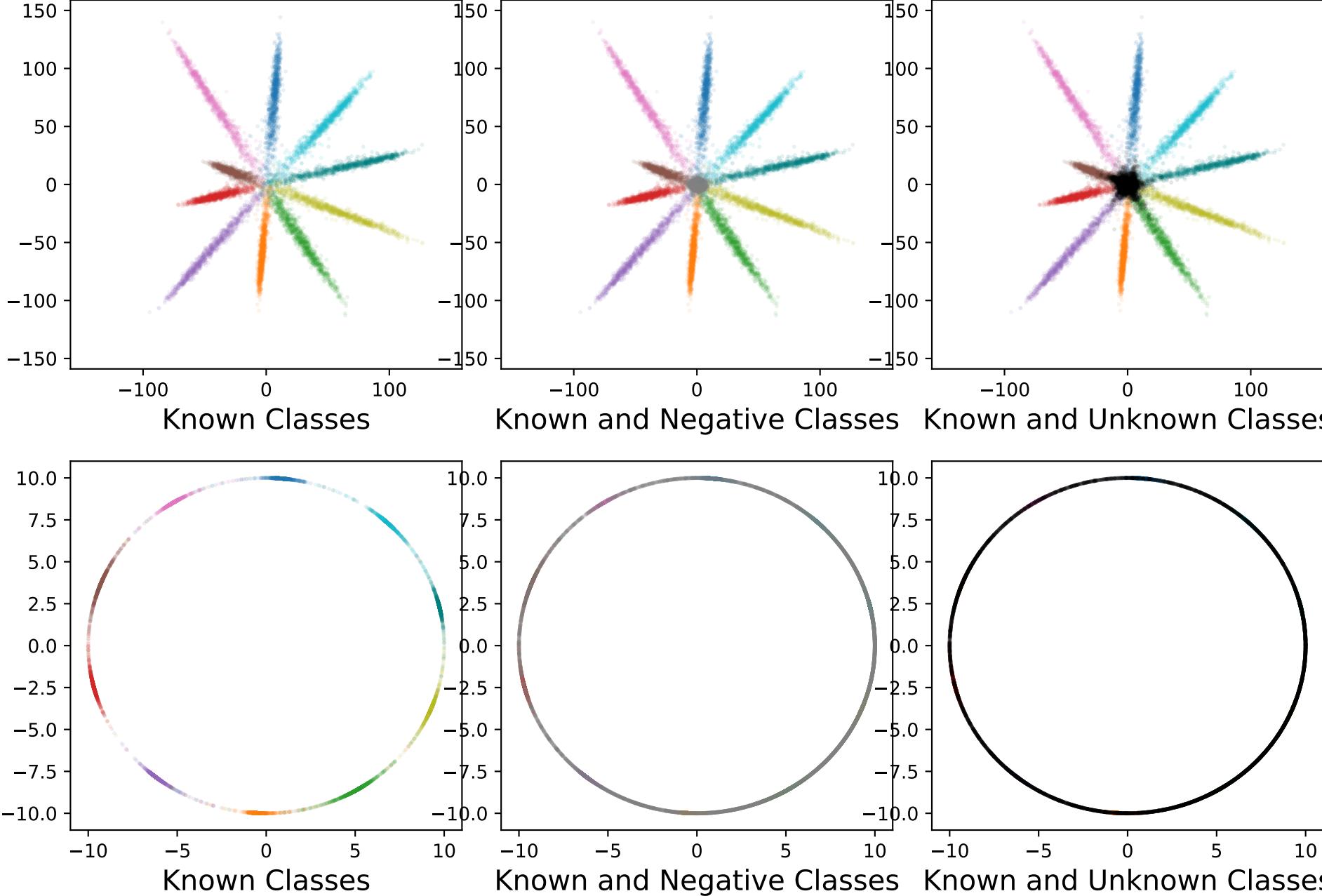
Objectosphere Deep Feature Distributions

— Unknown — Negative — 0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9



ArcOS-V Deep Feature Distributions

— Unknown — Negative — 0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9



CosOS-V Deep Feature Distributions

— Unknown — Negative — 0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9