We train the model using mixtures with sources from both speech and environmental (Env.) sounds. We use higher values of gamma for the corresponding class that we are mostly interested in.

We can get a significant boost in the reconstruction quality for the class that we choose the higher weight over the baseline (same weights).

We have presented a simple and easily extendable unified gradient reweighting scheme with negligible computational cost.

We showed that we can use it towards solving multiple real-world problems appearing in the process of training separation networks, such as: robustness, convergence and adaptation to specific classes.

We control the trade-off between the mean estimation accuracy and robustness.

In many real-world applications, a more robust model might be preferred over a more accurate (on average) model with higher variance.

Increasing alpha leads to put more weight on “difficult” examples.

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