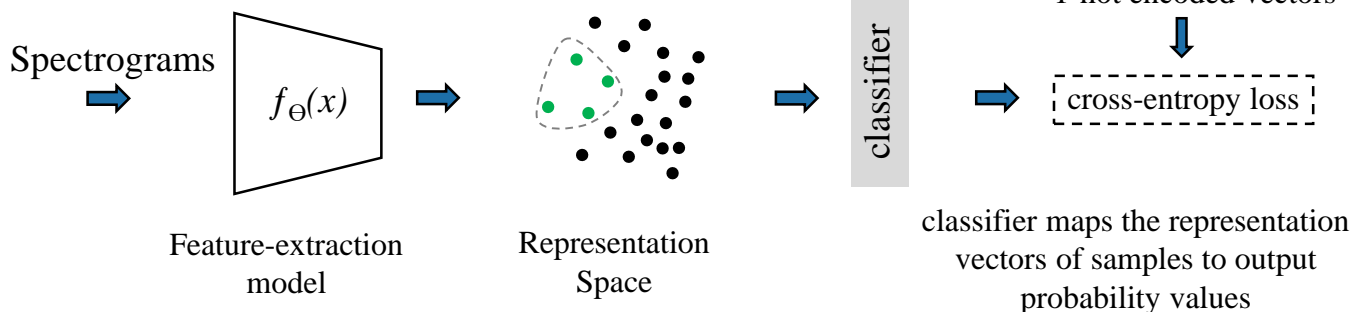
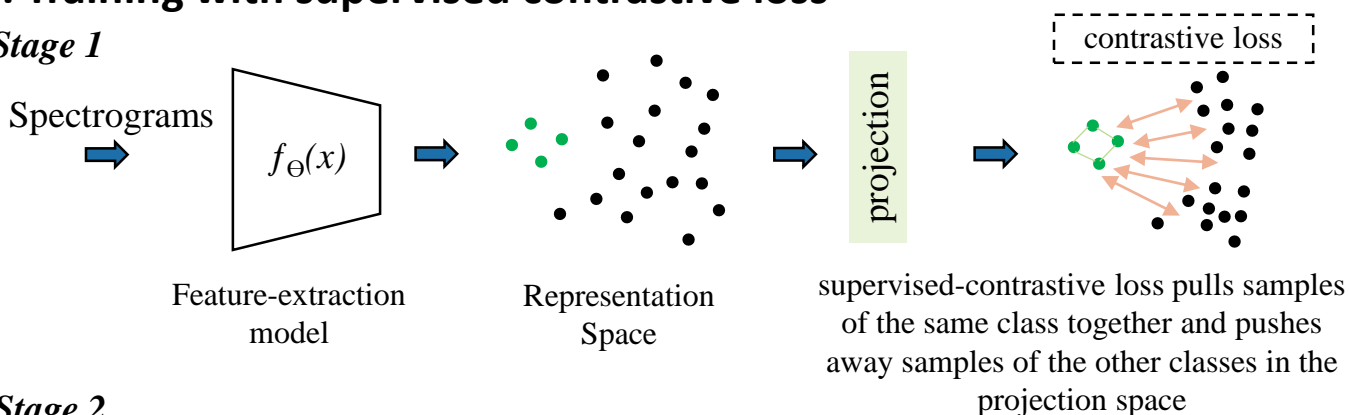


a. Training with cross-entropy loss

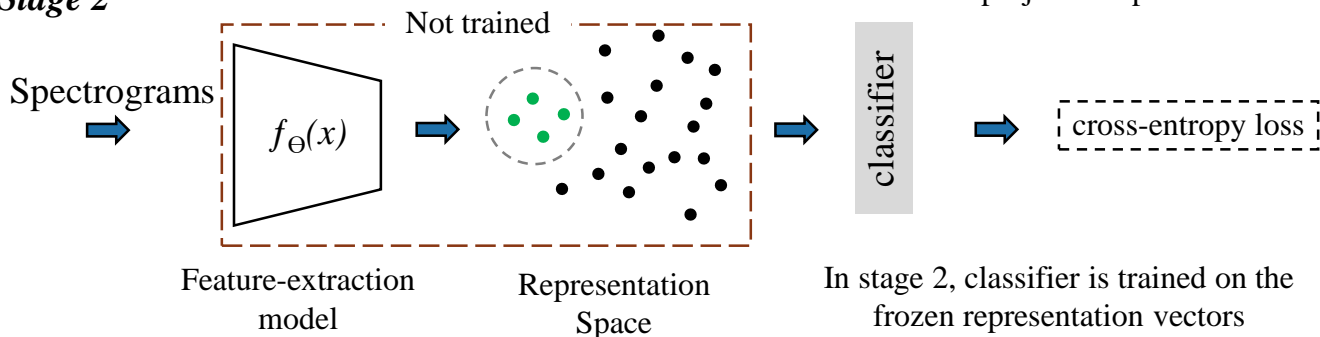


b. Training with supervised contrastive loss

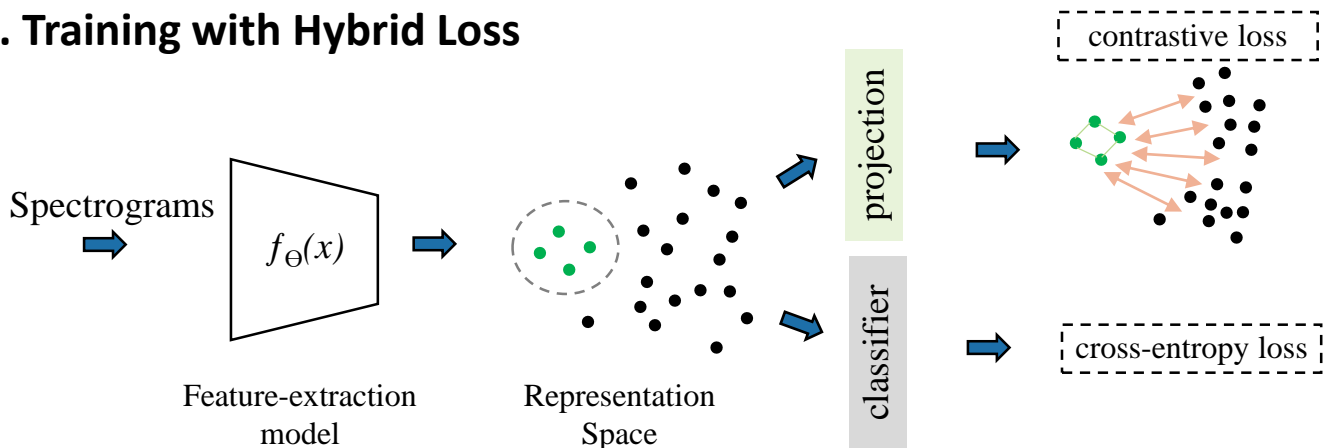
Stage 1



Stage 2



c. Training with Hybrid Loss



By training the model based on supervised contrastive and cross-entropy loss functions, training can be done faster in one stage, and the cross-entropy loss is used in training the feature extraction model too