Model Name: Relation Network

Task Setup: 5-way 1-shot

Parameters:

num\_classes = 5

support\_num\_examples\_per\_class = 1

query\_num\_examples\_per\_class = 4 # for training

test\_query\_num\_examples\_per\_class = 4 # for testing

model = arch.RelationNetwork(1, 64, 128, 64, 64, num\_classes=num\_classes, support\_num\_examples\_per\_class=support\_num\_examples\_per\_class, query\_num\_examples\_per\_class=query\_num\_examples\_per\_class)

optimizer = optim.Adam(model.parameters(), lr=10e-3)

scheduler = optim.lr\_scheduler.MultiStepLR(optimizer, [100000/(episode\_factor \* num\_episodes\_per\_epoch), 200000/(episode\_factor \* num\_episodes\_per\_epoch), 300000/(episode\_factor \* num\_episodes\_per\_epoch), 400000/(episode\_factor \* num\_episodes\_per\_epoch)], gamma=0.5)

loss\_fn = nn.MSELoss()

epochs – 495

lr = 10e-3