

# Graph Run Report

workflow 84a32913-f895-40d5-a8d7-9dbffcce232c

## Run Configuration

parameter	value
seed	42
dataset_type	disjoint
num_nodes	8
edge_prob	0.1000
num_samples_per_graph	10
num_graphs	10000
num_timesteps	100
num_actions	10
test_fraction	0.2000
network_type	rnn
hidden_dim	1024
epochs	300
trainer_batch_size	2048
lr	0.0005
val_split	0.2000
scheduler	cosine
git_hash	1f2cc0b8c30a9d0fa0003714f3a219dd2eb695a2
distributed	True
world_size	4
rank	0
local_rank	0
long_timesteps	2000
long_window_size	100
boundary_num_graphs	10
boundary_repeats_per_graph	10
boundary_window_size	100
device	NVIDIA H200
training_time	4m 51.21s

## Key Metrics

metric	value
avg_rolling_accuracy_graph_set	31.55%
avg_rolling_accuracy_single_graph	39.28%
best_epoch	297
best_val_loss	0.1746
final_train_accuracy	94.68%
final_train_loss	0.1342
final_val_accuracy	93.04%
final_val_loss	0.1746
num_actions	10
num_nodes	8
num_parameters_fast	0
num_parameters_slow	1162034
num_parameters_total	1162034
num_test_graphs	2000
num_train_graphs	10000
optimal_prediction_rate	95.54%
test_constraints_ok	yes
test_next_node_accuracy	27.01%
train_constraints_ok	yes
triplet_overlap_fraction	0.00%

# Visualizations

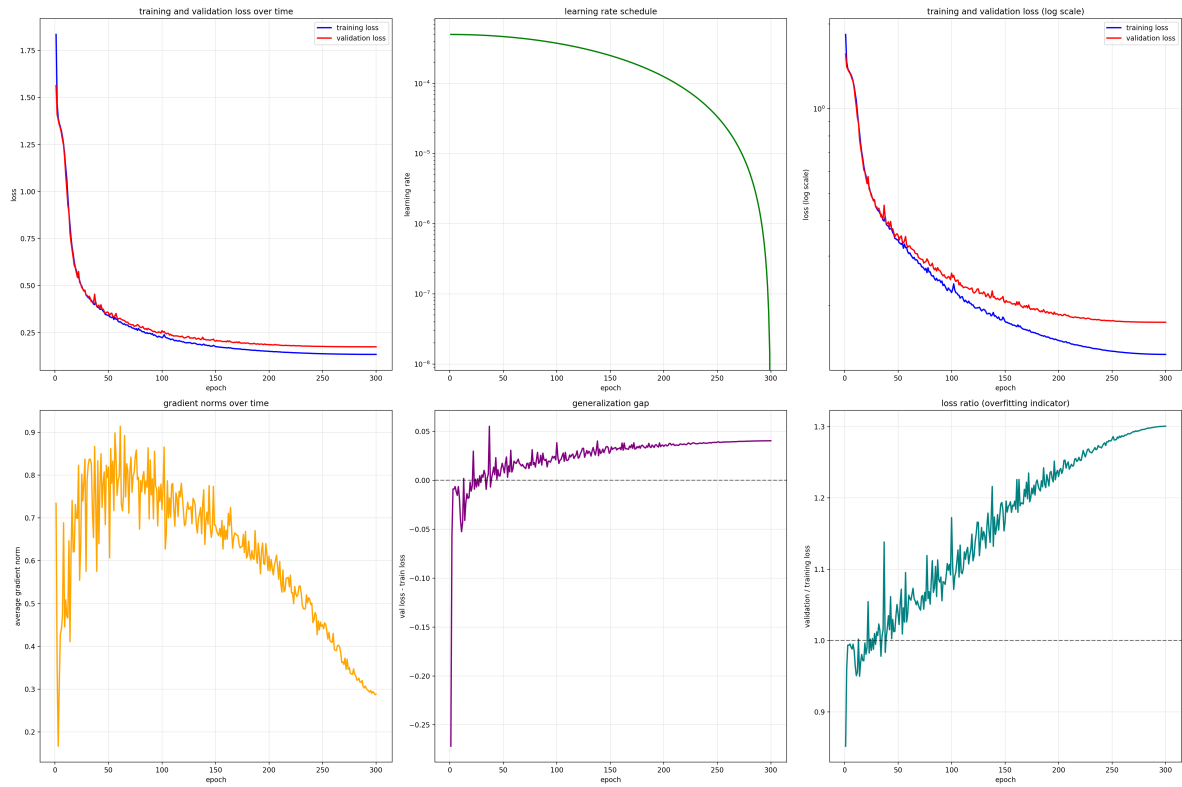


Figure 1: training and validation curves

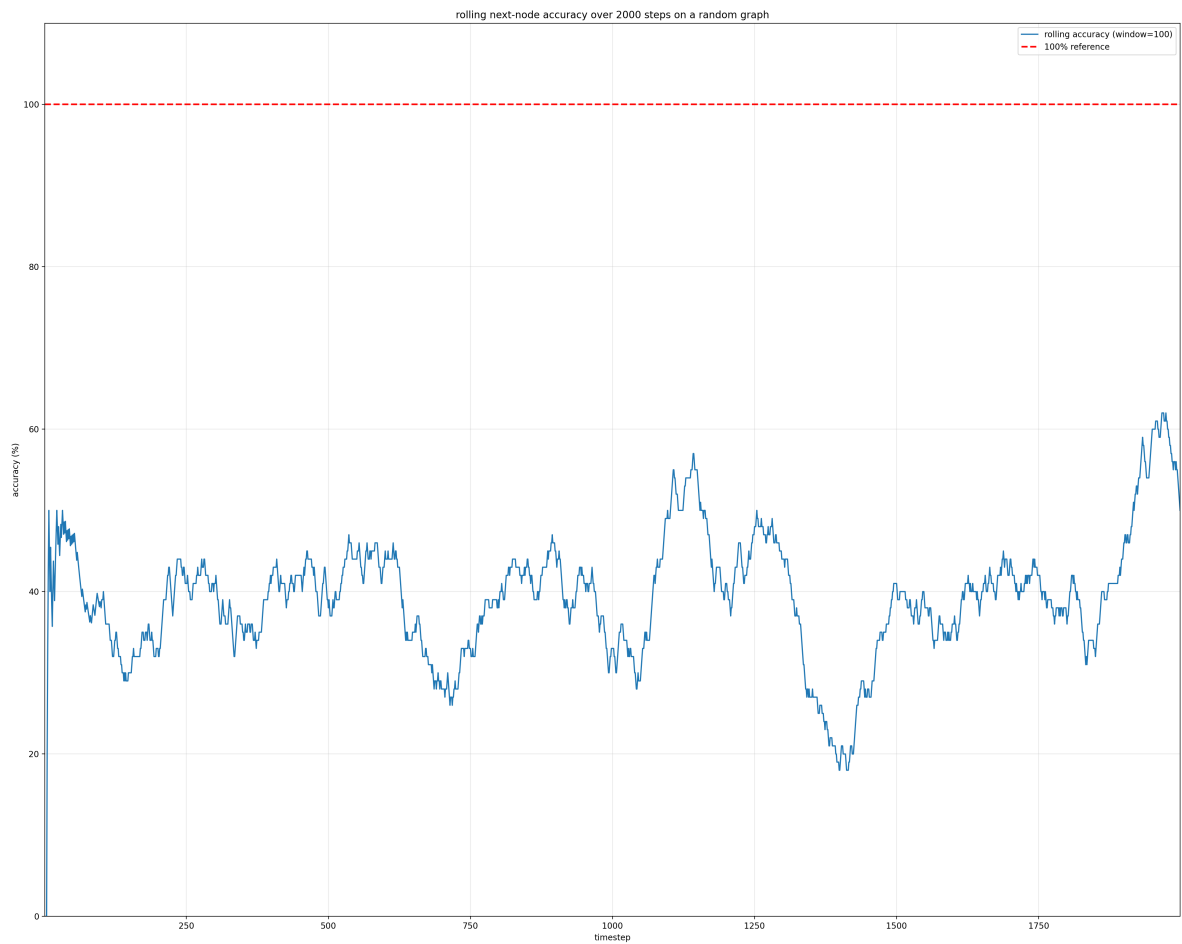


Figure 2: rolling accuracy (single graph)

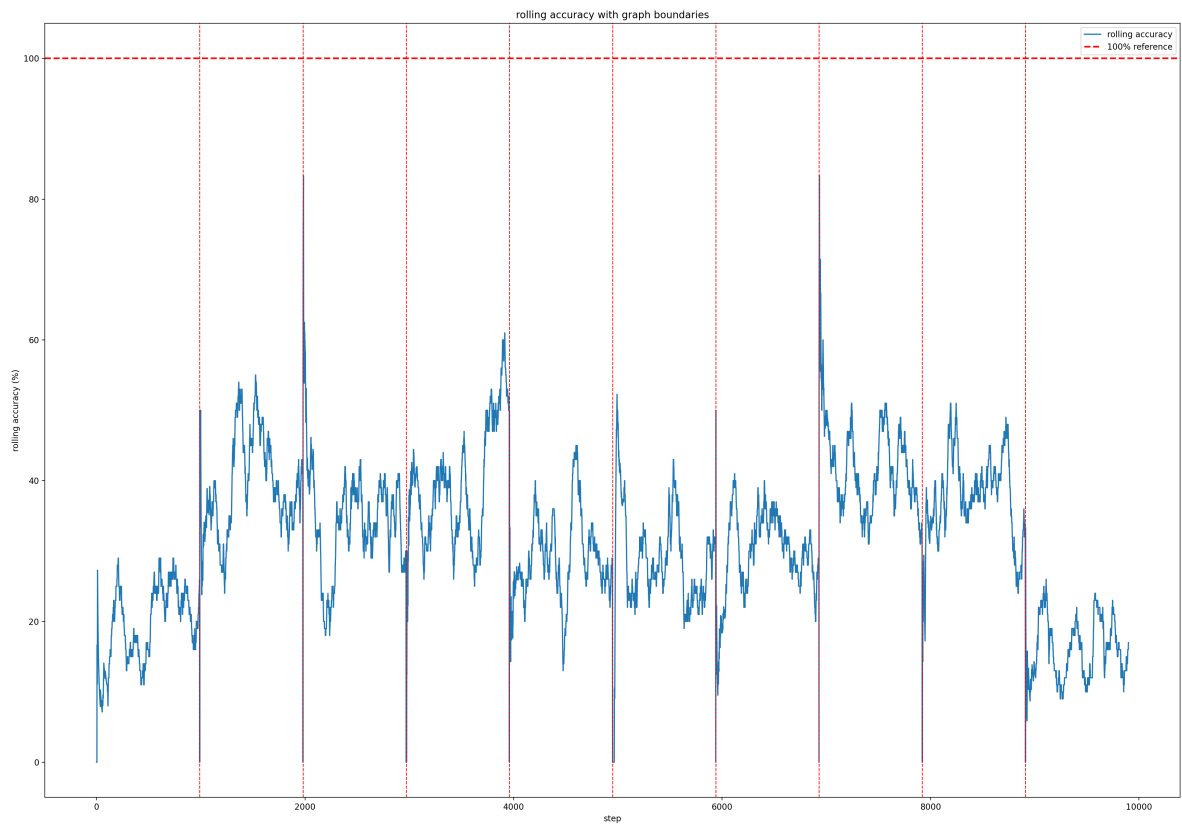


Figure 3: rolling accuracy across graph boundaries

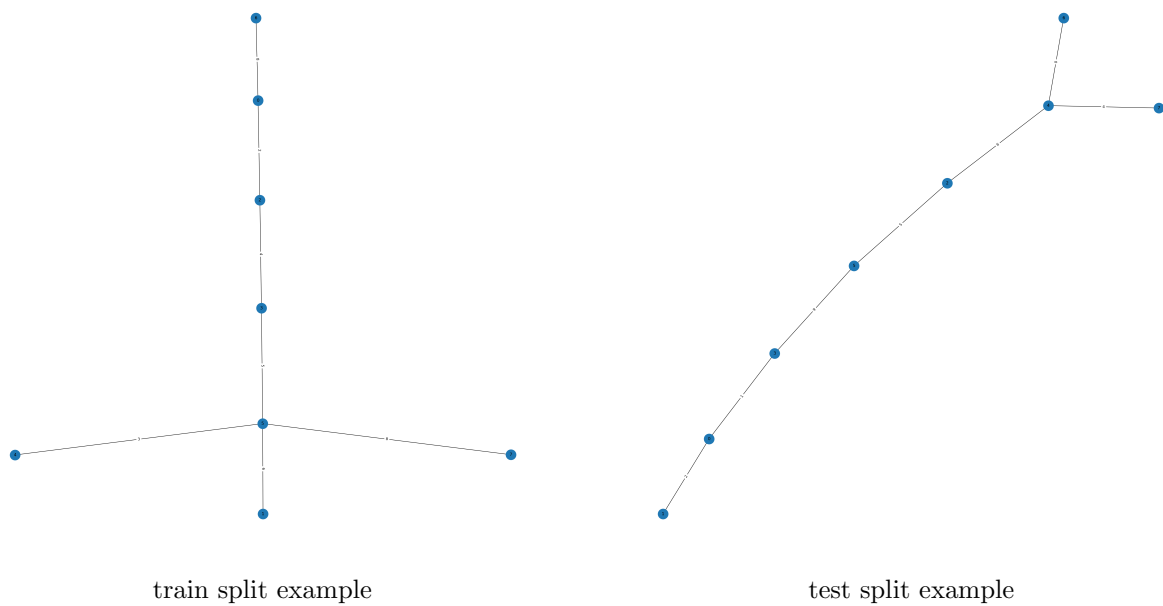


Figure 4: random graphs

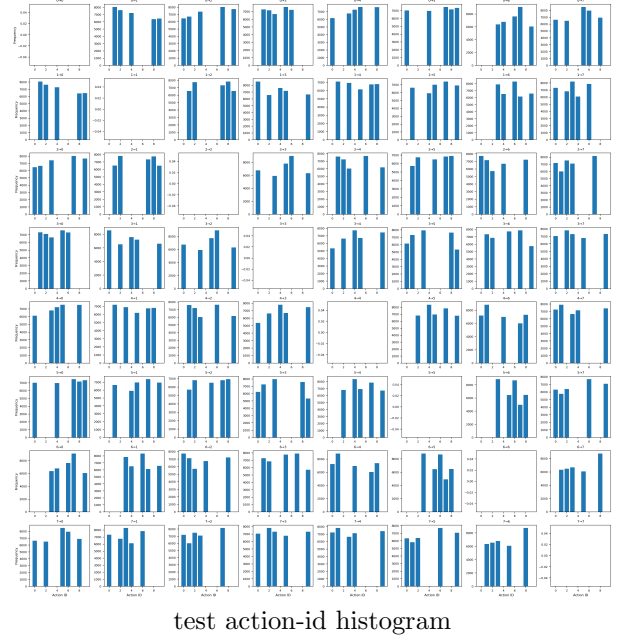
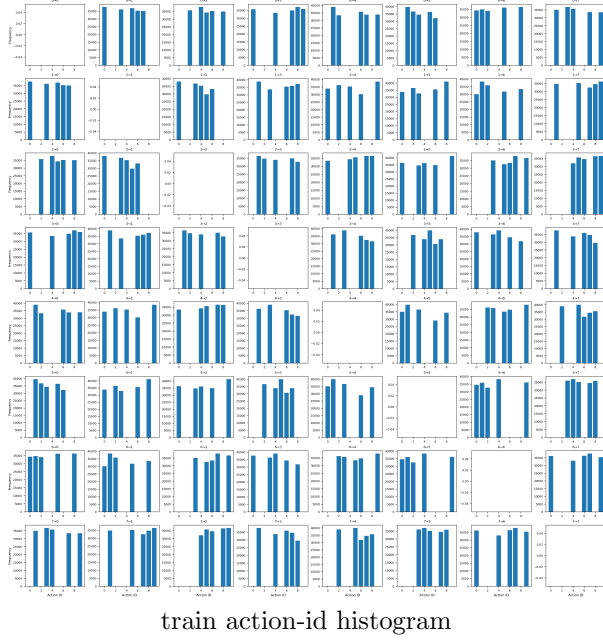


Figure 5: action distributions