Graph Run Report

workflow aa1e146a-13bf-4b98-ae9b-ccc8ee353165

Run Configuration

parameter	value
seed	42
dataset_type	standard
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	5m 1.61s

Key Metrics

metric	value
avg_rolling_accuracy_graph_set	87.78%
avg_rolling_accuracy_single_graph	97.66%
best_epoch	299
best_val_loss	0.3190
final_train_accuracy	87.95%
final_train_loss	0.3074
final_val_accuracy	87.41%
final_val_loss	0.3190
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	95.58%
test_constraints_ok	yes
test_next_node_accuracy	86.49%
train_constraints_ok	yes
triplet_overlap_fraction	100.00%

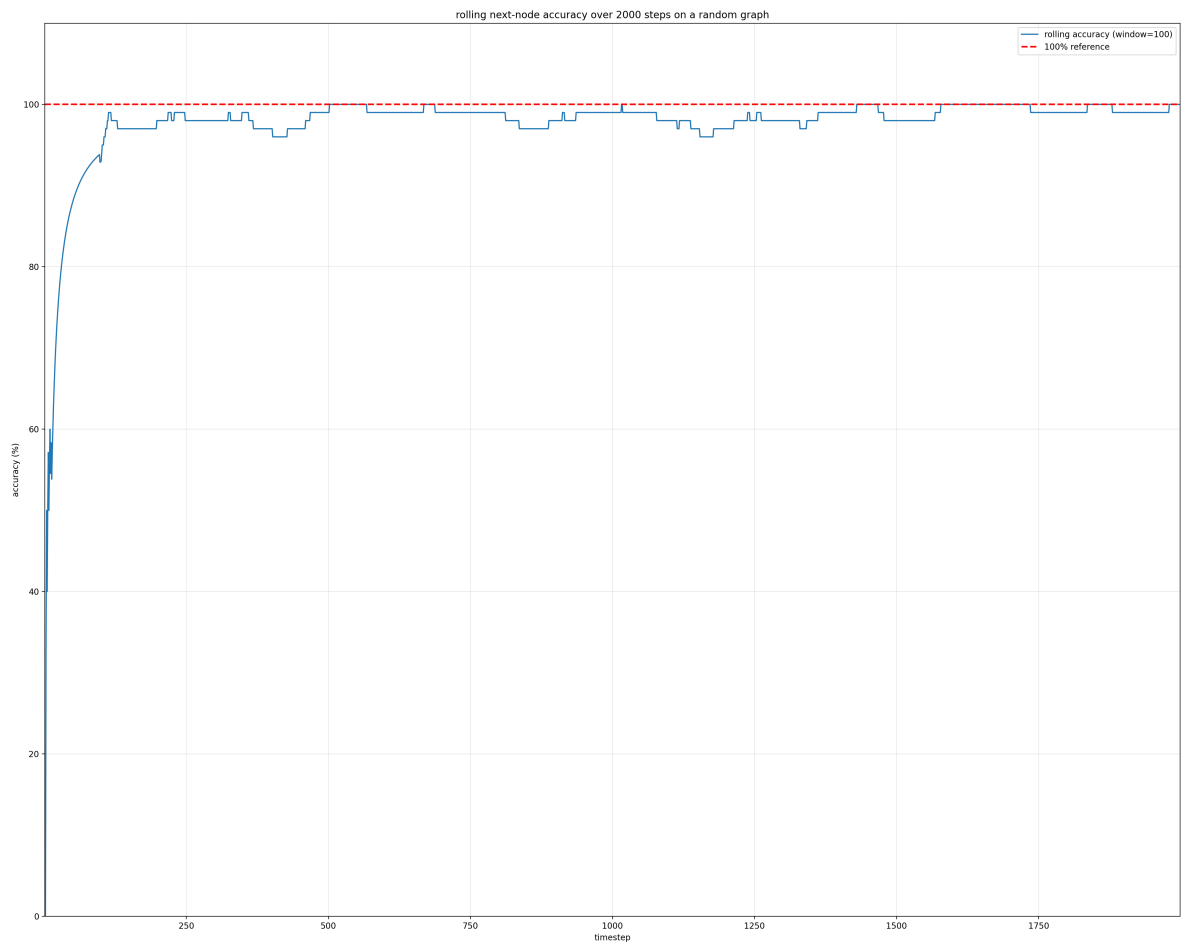# Visualizations
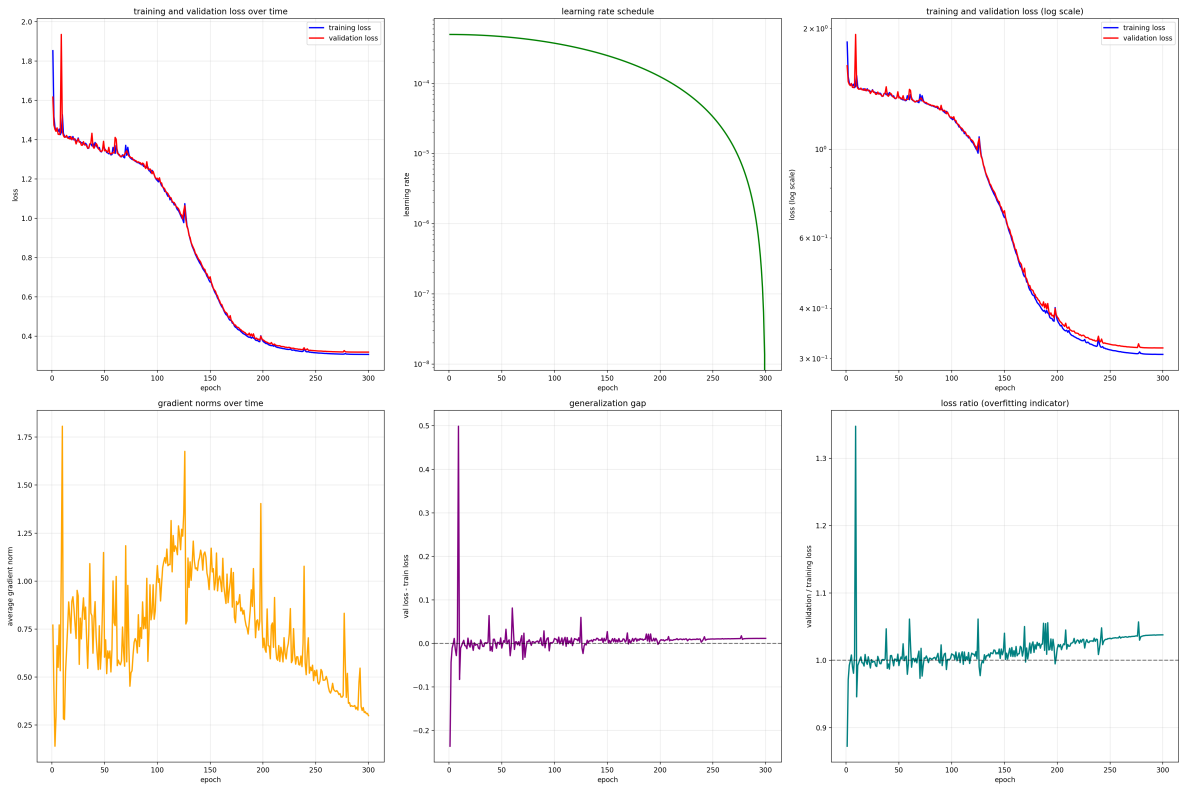
Figure 1: training and validation curves

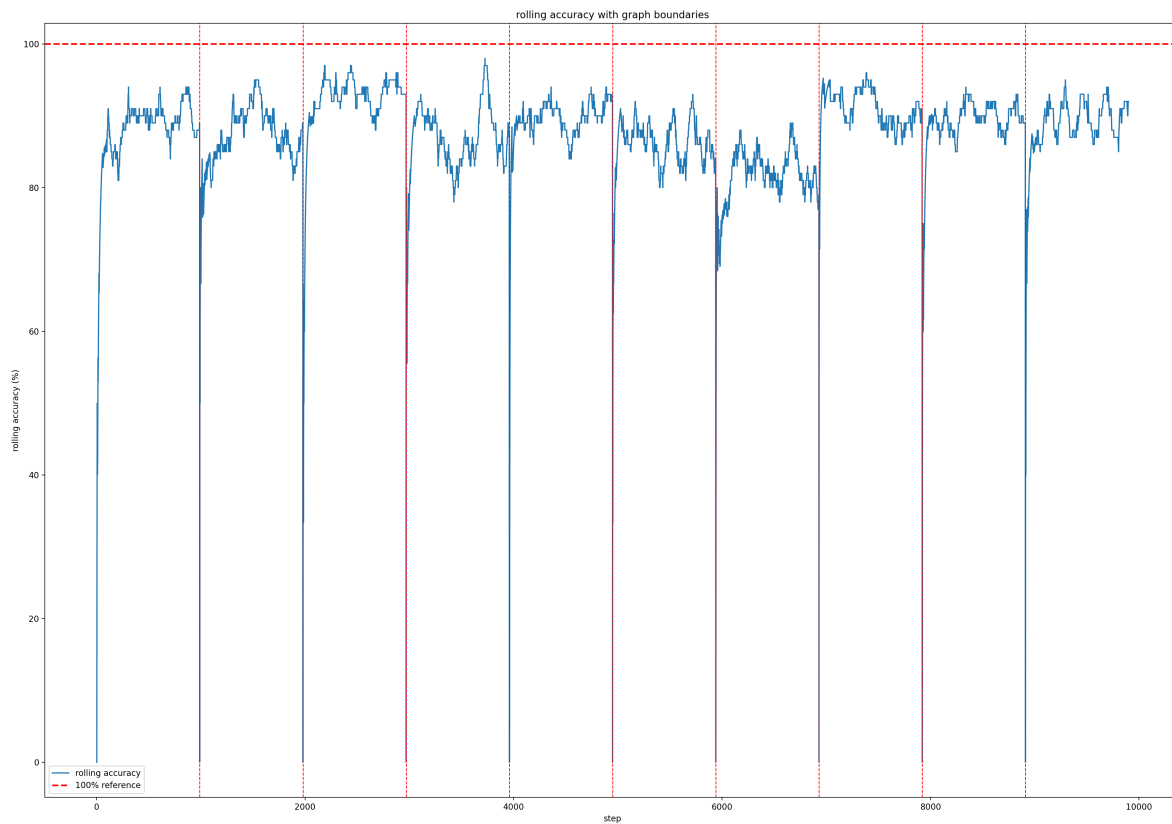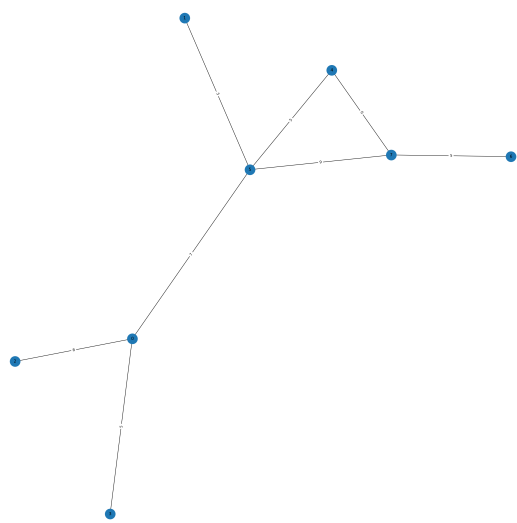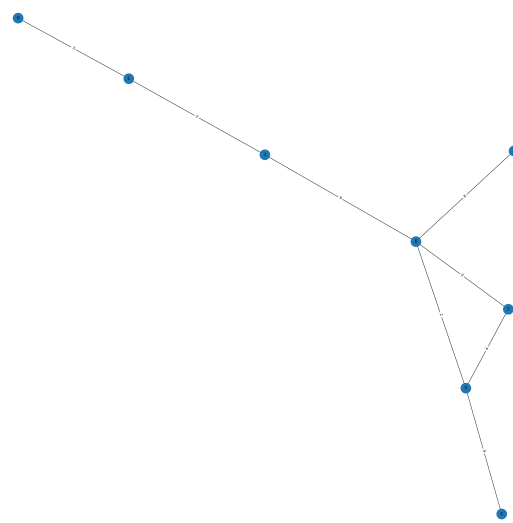Figure 2: rolling accuracy (single graph)

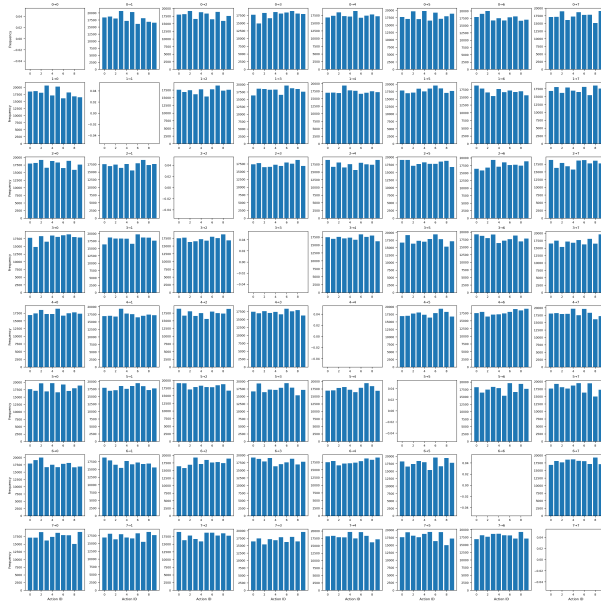Figure 3: rolling accuracy across graph boundaries
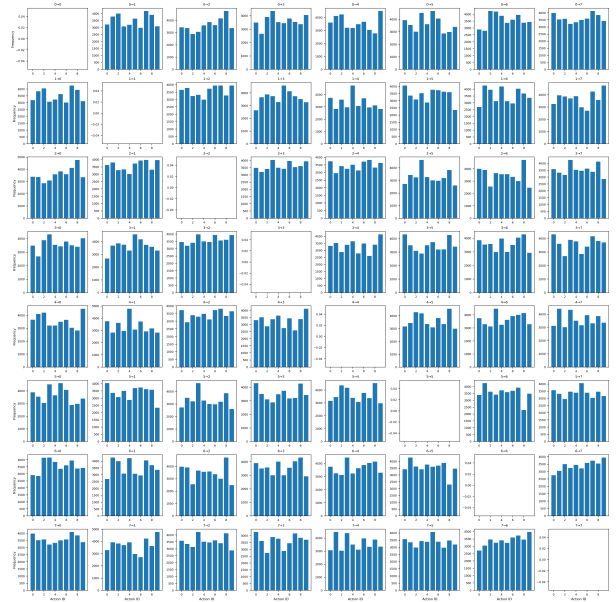

train split example

test split example

Figure 4: random graphs

train action-id histogram

test action-id histogram

Figure 5: action distributions