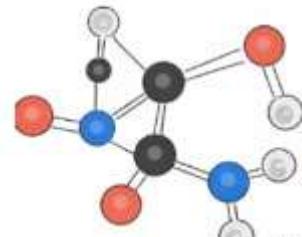
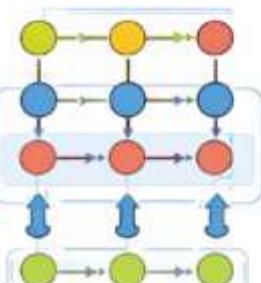


PolymerArena

Molecular Graph



Graph Neural Network

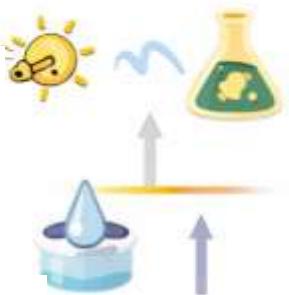


Node Matrix

Graph Representation

Node Embeddings

Prediction



Property Output

Task:
Predict
polymer's
properties.

Large
polymer
corpus



Evaluate on 6 Architectures

GCN

EdgeCNN

GIN

PNA

GAT

GPSE

Metrics

Masked
-MSE

RMSE

Pearson
R

Ablation Studies

Edge
attribute
ablation

Pooling
ablation

Batch
size
ablation

Data
mixup
ablation