



Experiments

Model	Data	Small Graphs (Full-Batch)			Large Graphs (Mini-Batch)		
		PubMed	Wiki-CS	Facebook	arXiv	Flickr	PPI
GCN	A, X, Y	79.0	77.19±0.12	90.65±0.16	71.74±0.29	49.20±0.31	82.28±0.24
GAT	A, X, Y	79.0±0.3	77.65±0.11	90.47±0.15	71.82±0.23	54.48±0.21	98.85±0.05
DGI	A, X	76.8±0.6	75.35±0.14	84.42±0.43	70.32±0.25	50.59±0.28	63.80±0.20
BGRL	A, X	79.6±0.5	79.98±0.13	89.71±0.35	71.54±0.17	51.87±0.15	73.63±0.16
MVGRL	A, X	80.1±0.7	77.52±0.08	87.29±0.28	-	-	71.45±0.14
GRACE	A, X	80.6±0.4	80.14±0.48	89.32±0.40	-	-	69.71±0.17
CCA-SSG	A, X	81.0±0.4	78.85±0.32	89.45±0.60	71.21±0.20	51.66±0.10	73.34±0.17
SpCo	A, X, Λ	81.5±0.4	79.16±0.27	89.98±0.45	-	-	-
SPAN	A, X, Λ	81.5±0.2	82.13±0.15	-	-	-	-
Sp ² GCL	A, X, Λ, U	82.3±0.3	79.42±0.19	90.43±0.13	71.83±0.19	52.05±0.33	74.28±0.22

Dataset	Regression (Metric: RMSE ↓)				Classification (Metric: ROC-AUC % ↑)			
	molecol	mollipo	molfreesolv	molbase	molbbbp	molclintox	moltox21	molsider
Supervised	1.173±0.057	0.757±0.018	2.755±0.349	72.97±4.00	68.17±1.48	88.14±2.51	74.91±0.51	57.60±1.40
InfoGraph	1.344±0.178	1.005±0.023	10.005±4.819	74.74±3.64	66.33±2.79	64.50±5.32	69.74±0.57	60.54±0.90
GraphCL	1.272±0.089	0.910±0.016	7.679±2.748	74.32±2.70	68.22±1.89	74.92±4.42	72.40±1.01	61.76±1.11
MVGRL	1.433±0.145	0.962±0.036	9.024±1.982	74.20±2.31	67.24±1.39	73.84±4.25	70.48±0.83	61.94±0.94
JOAO	1.285±0.121	0.865±0.032	5.131±0.722	74.43±1.94	67.62±1.29	78.21±4.12	71.83±0.92	62.73±0.92
AD-GCL	1.217±0.087	0.842±0.028	5.150±0.624	76.37±2.03	68.24±1.47	80.77±3.92	71.42±0.73	63.19±0.95
SPAN	1.218±0.052	0.802±0.019	4.531±0.463	76.74±2.02	69.59±1.34	80.28±2.42	72.83±0.62	64.87±0.88
Sp ² GCL	1.235±0.119	0.835±0.026	4.144±0.573	78.76±1.43	68.72±1.53	80.88±3.86	73.06±0.75	64.23±0.96