

# Supplementary Materials

## 1 Results of Synthetic Data

The supplementary results of the synthetic datasets(lastfm and Arxiv) have the same patterns as in the paper. Figures 1-3 are the results of the lastfm dataset, and figures 4-6 are the results of the Arxiv dataset. In the three subplots of all figures, the seed sizes are 10%, 20%, and 50% of the number of overlaps. The curves and error bars show the means and variances of multiple experiments.

### 1.1 Lastfm

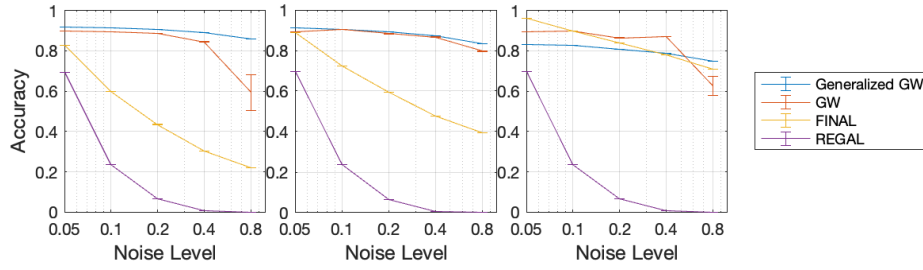


Fig.1: The network alignment accuracy as a function of noise level. The three subfigures indicate three different seed sizes.

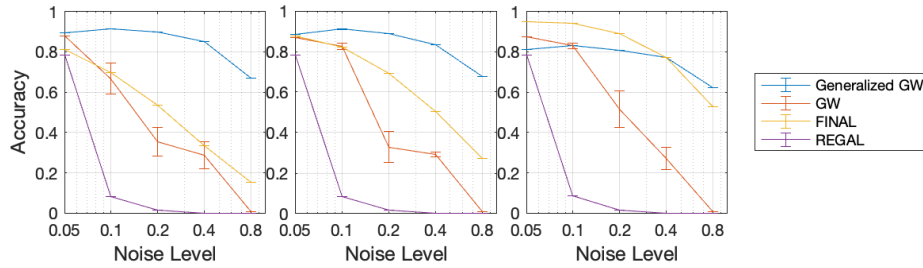


Fig.2: The network alignment accuracy as a function of noise level(by swapping nodes of two edges). The three subfigures indicate three different seed sizes.

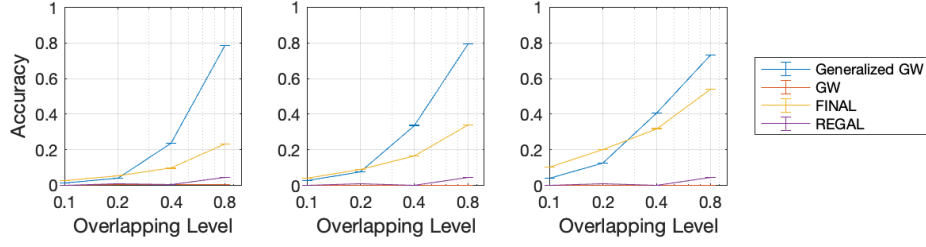


Fig. 3: The network alignment accuracy as a function of overlap rate. The three subfigures indicate three different seed sizes. In all experiments, the noise level is 20%.

## 1.2 Arxiv

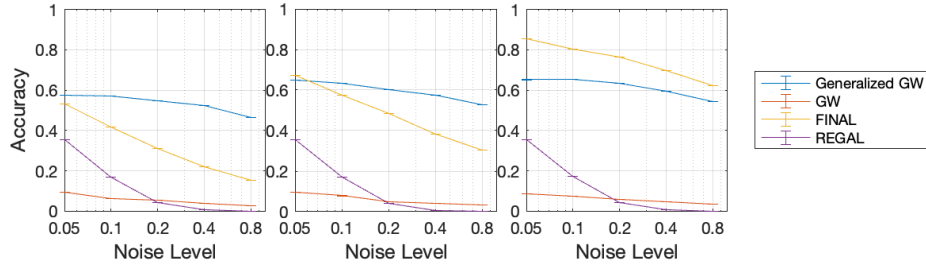


Fig. 4: The network alignment accuracy as a function of noise level. The three subfigures indicate three different seed sizes.

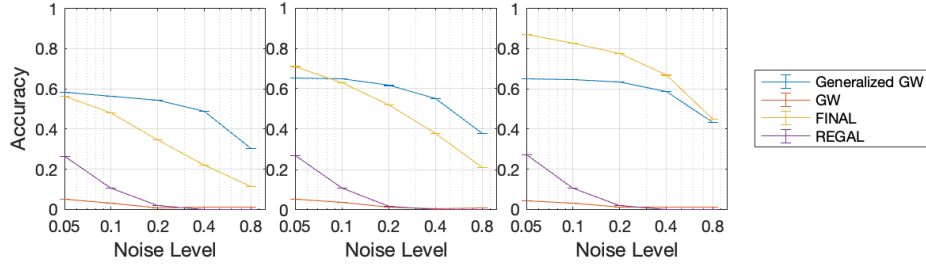


Fig. 5: The network alignment accuracy as a function of noise level (by swapping nodes of two edges). The three subfigures indicate three different seed sizes.

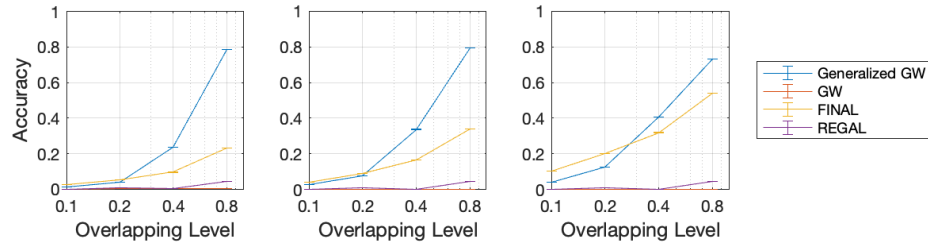


Fig. 6: **The network alignment accuracy as a function of overlap rate. The three subfigures indicate three different seed sizes.** In all experiments, the noise level is 20%.