GCN on Undirected Graphi $H^{k_1} = f(\hat{A} H^k W^k)$ $G = (V, \Sigma, X)$ node edge feature of node $|V| \times d_0$ \\ | | = X WKER daxdax GCN on Multi-Relational Graph: HPH FLAHAWR) -> h= f(2 WMn) (g=(V, R, E, X) relation (U,V,r) U TER V (omposi to Comp G(N) G= (V, R, E, X, Z) hr = Wrel hr relation facture ho, hr in thial xv, Zr 1R/x do Wel dix do