We propose to use the natural gradient descent to optimize graph neural networks. The GNN is a generalization of the NN to the graph domain. The GCN is a GNN with a linear approximation followed by a nonlinear activation function. The Hessian is the matrix of second-order partial derivatives of the loss function. The Fisher information matrix is the inverse of the empirical Hessian. The results are very promising. The Adam algorithm is the best of the four, and the SGD-KFAC algorithm is the worst. The Adam-KFAC algorithm is the best of the two-layer algorithms.