

$$\begin{array}{c} \text{Node} \\ \text{scores} \end{array} \begin{bmatrix} s(v, i+1) \\ \vdots \end{bmatrix} = \begin{array}{c} \text{Adjacency matrix} \\ \text{of unknown examples} \end{array} \begin{bmatrix} \vdots \\ \alpha w(u, v) \\ \vdots \end{bmatrix} + \begin{array}{c} \text{Node} \\ \text{scores} \end{array} \begin{bmatrix} \vdots \\ s(u, i) \\ \vdots \end{bmatrix} + \begin{array}{c} \text{Fixed} \\ \text{contrib} \end{array} \begin{bmatrix} f(v) \\ \vdots \end{bmatrix}$$

After  $i + 1$  iterations
 After  $i$  iterations