Prove that L is positive semidefinite $x^T L x \ge 0$

$$L = D - A$$

$$D_{i} = \sum_{j} A_{ij} \qquad A = e^{-\frac{1}{262} ||x_{i} - x_{j}||^{2}}$$

$$u^{T}Lx = x^{T}(D-A)x$$

$$= \sum_{i} a_{i} x_{i}^{2} - \sum_{i} A_{ij} x_{i} x_{j}$$

A'ij
$$\geqslant 0$$
 $(\alpha_i - \alpha_j)^2 \geqslant 0$