

- Computing max log-likelihoods through SVD 1) X = 2) A= -X, - X-X2-X--Xn-X- 10xd 3) Do SVD of A 4) Compute Um=V[:,:m]

Lm=[:m,:m]

5) Compute MML, OML, MML $MML = \frac{1}{2} \sum_{i=1}^{n} \chi_{i}$ $MML = \frac{1}{2} \sum_{i=1}^{n} \chi_{i}$ $MML = \frac{1}{2} \sum_{i=1}^{n} \chi_{i}$ WM=Um (Lm-One I)1/2 1+9+25 2+12+30 SVD & PCA are Very 2+12+30 4+16+36_ expensive computationally .. We use an iterative method with LARGE datasets