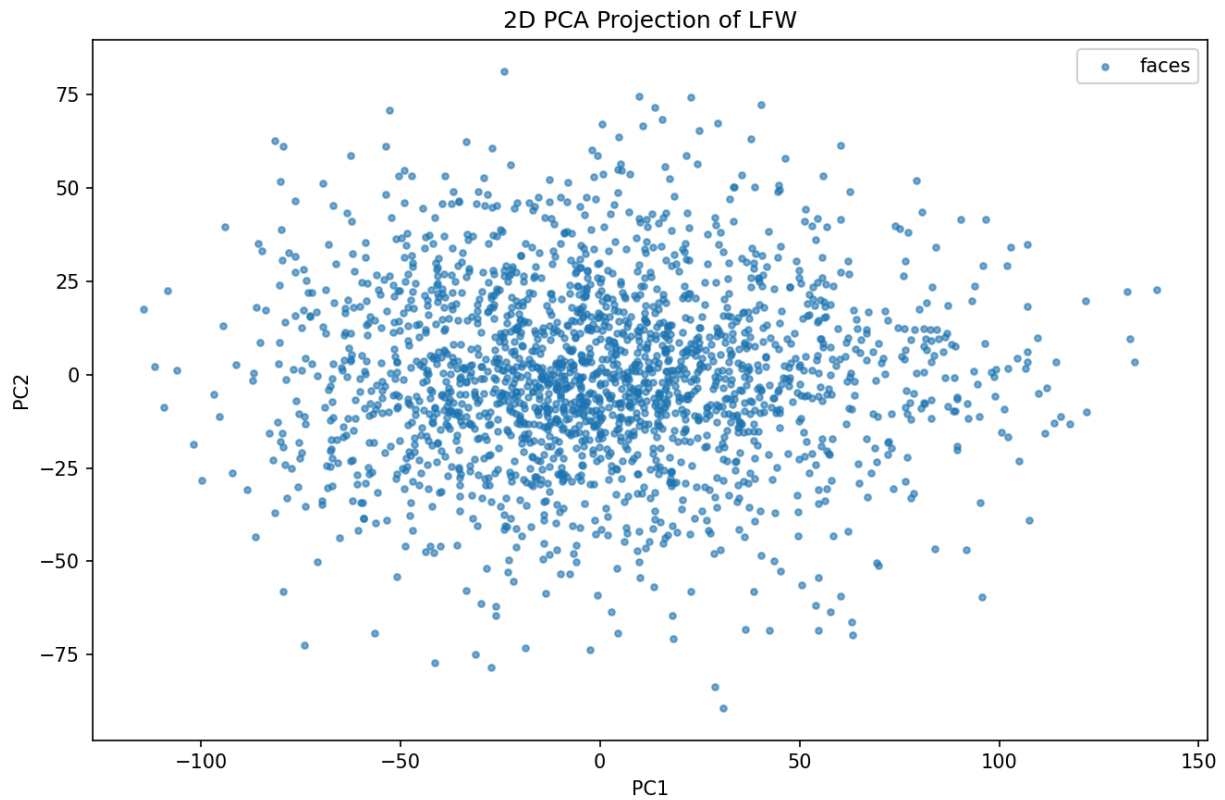


[Baseline] 1-NN on raw pixels: accuracy = 0.215  
1-NN on 100D PCA: accuracy = 0.244  
1-NN on 100D PCA (whitened): accuracy = 0.308



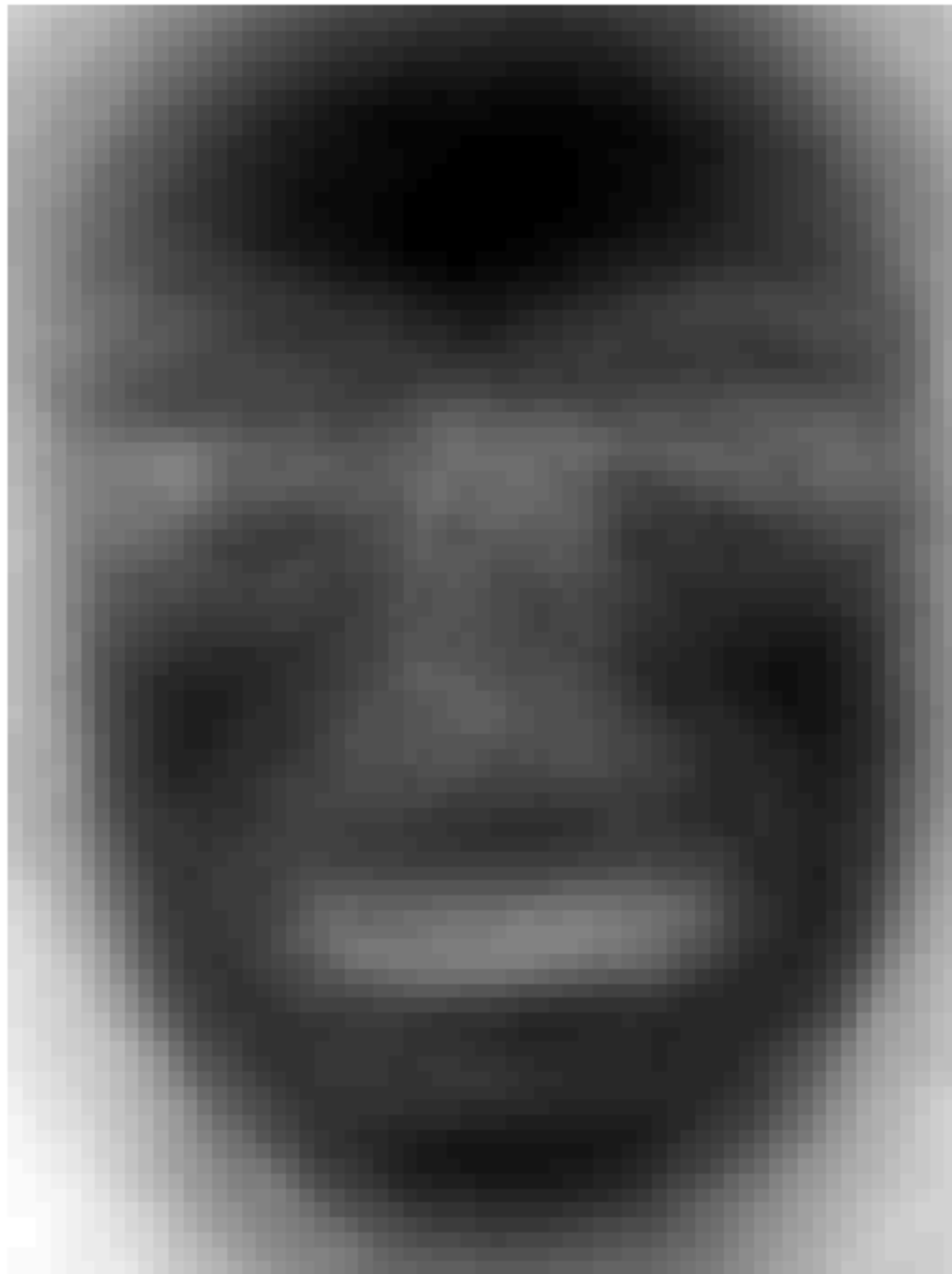
---

PC1 min -> idx=778, name=George Robertson, score=-115.072  
PC1 max -> idx=356, name=Serena Williams, score=139.157  
PC2 min -> idx=1407, name=Tony Blair, score=-74.823  
PC2 max -> idx=217, name=Guillermo Coria, score=88.702

---

k ( $\geq 95\%$  variance): 203 features needed

Primary Principal Component (Eigenface 1)



Reconstruction with PC1 only



Reconstruction with top-203 PCs ( $\geq 95\%$ )



PC1 min



PC1 max



PC2 min



PC2 max

