Square Solution Lessi Minimum Norm y= Xw+& mp projection of i on X ₩ ŷ = pg minimizes 119 - 911 B ŷ is in the vector space of x - So g= Xw 了一分上分 $\Rightarrow (xw)^T (\vec{y} - xw) = 0$ $\hat{\mathbf{y}}^{\mathsf{T}}(\hat{\mathbf{y}} - \hat{\mathbf{y}}) = 0$ $= D \quad w^T x^T y^T - w^T x^T x w = 0$ uT(xTy'-xTxu)=0XTXW = XTT W = (xTx)-1 xTJ dxn xnd dxn nx2 x

Disadvertige: Too Many Matrix-Matix product / wingetstim