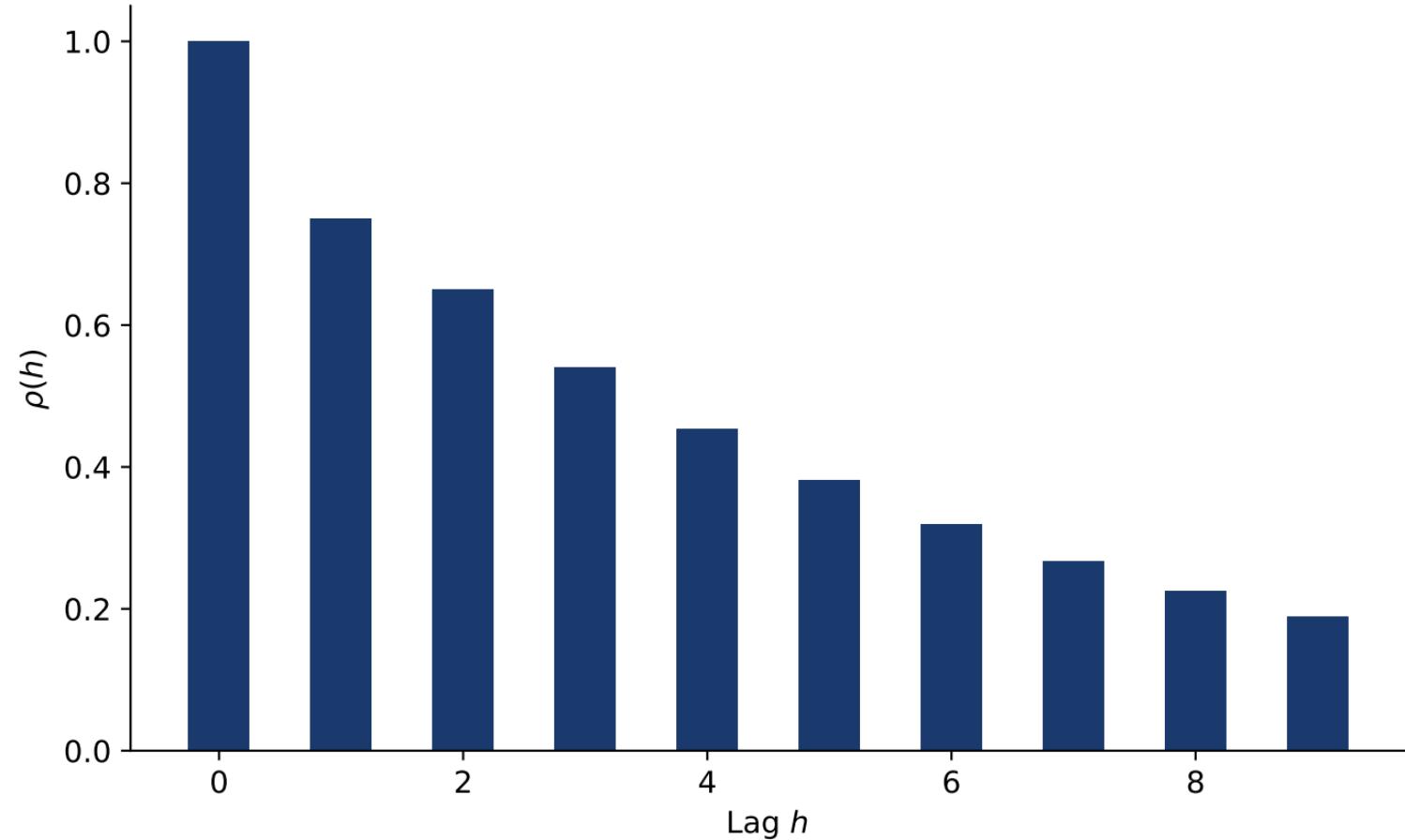


Theoretical ACF for AR(2)

$$\phi_1 = 0.6, \phi_2 = 0.2$$



Yule-Walker Equations

$$\rho(1) = \phi_1 + \phi_2\rho(1)$$

$$\rho(2) = \phi_1\rho(1) + \phi_2$$

$$\text{Matrix form: } R \cdot \phi = \rho$$

R = autocorrelation matrix

$$\text{Solution: } \hat{\phi} = R^{-1}\rho$$