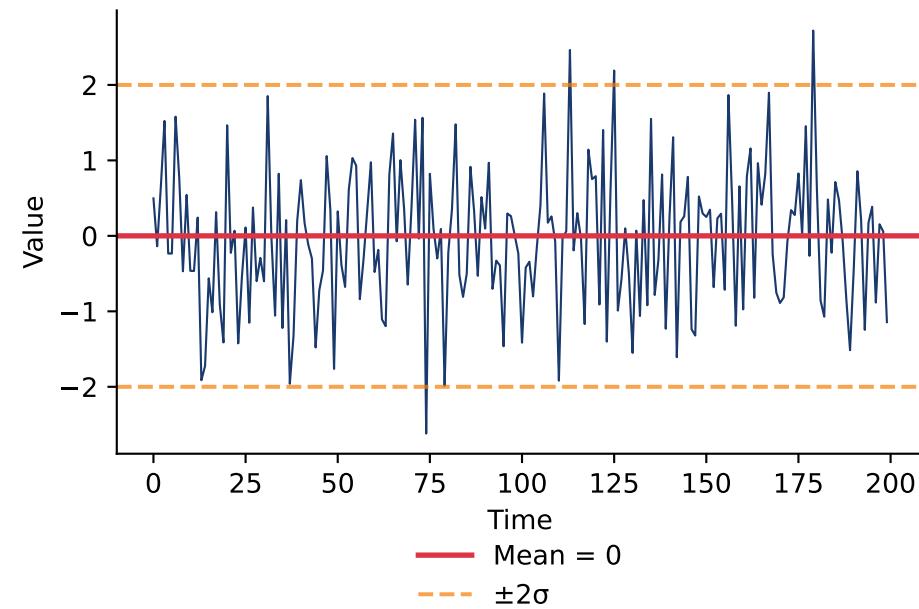
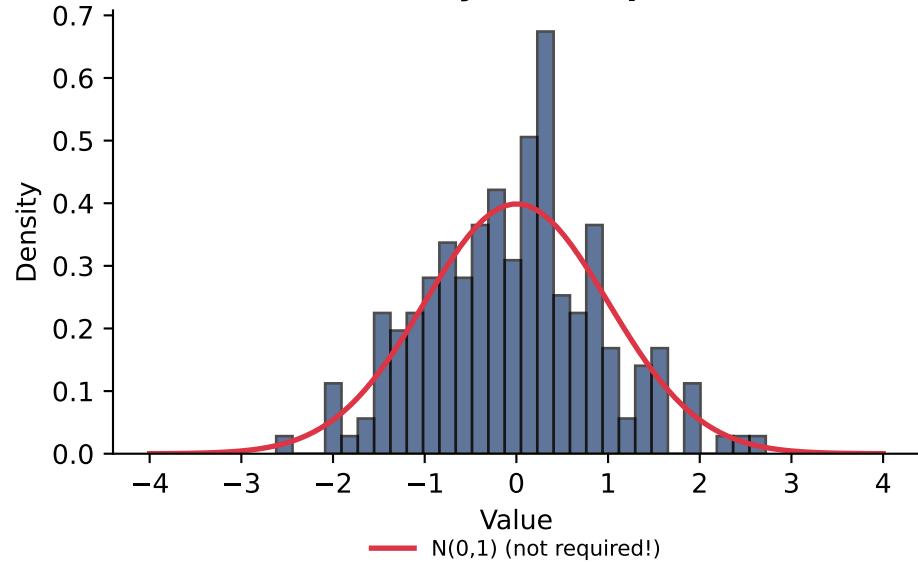


White Noise: $\varepsilon_t \sim WN(0, \sigma^2)$

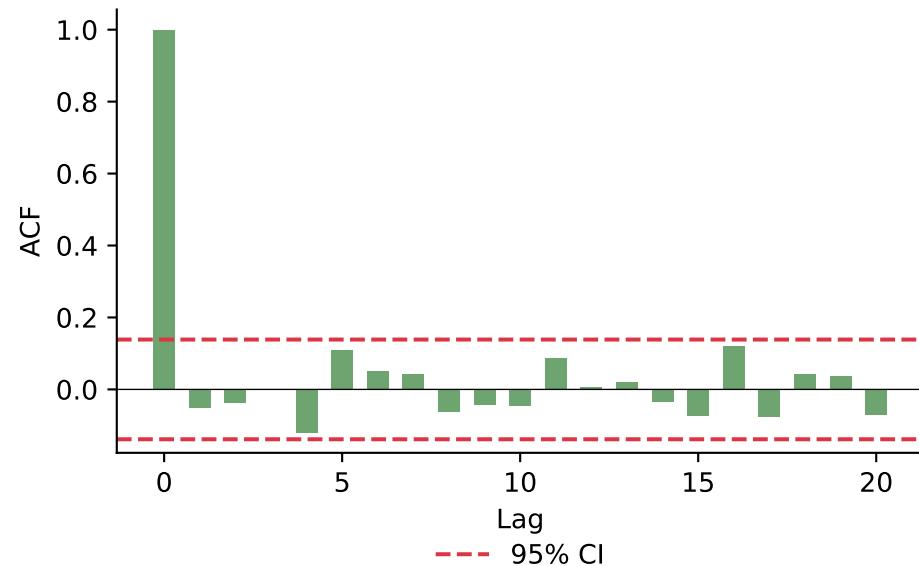


**Distribution
(Normality NOT required)**



ACF: No Autocorrelation

$$\text{Cov}(\varepsilon_t, \varepsilon_s) = 0 \text{ for } t \neq s$$



White Noise Properties

- 1. $E[\varepsilon_t] = 0$ **Zero mean**
- 2. $\text{Var}(\varepsilon_t) = \sigma^2$ **Constant variance**
- 3. $\text{Cov}(\varepsilon_t, \varepsilon_s) = 0$ **Uncorrelated**
- 4. $\varepsilon_t \sim N(0, \sigma^2)$ **NOT required!**