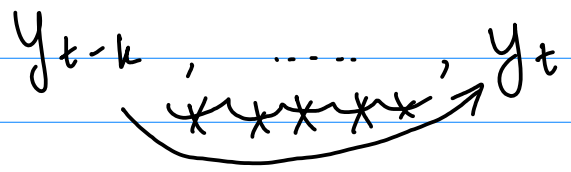
Partial Correlation

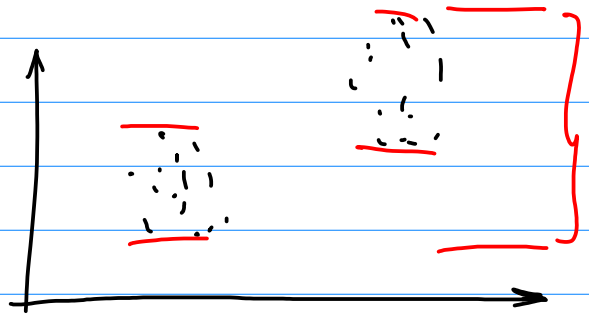


$$r_{AB \cdot Z} = \frac{r_{AB} - r_{AZ} r_{BZ}}{\sqrt{(1 - r_{AZ}^2)(1 - r_{BZ}^2)}}$$

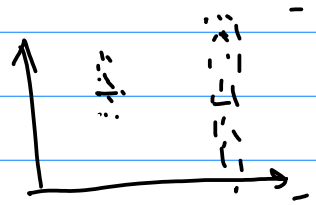
One-way ANOVA

H_0: $\mu_1 = \dots = \mu_p$

H_a: aren't equal



$$F = \frac{MS_B}{MS_E} = \frac{SS_B / p-1}{SS_E / p(n-1)}$$



Assumptions:

1) randomness & independence

2) normality (Q-Q plot; Shapiro-Wilk; etc.)

3) homogeneity of variance (Bartlett test)

$$\sigma_1^2 = \dots = \sigma_p^2$$