

Pair Bootstrap y; = B, + RzNi + E. $\mathcal{E}_{i} \sim \mathcal{N}(0, 6^{\frac{2}{\epsilon}})$ 1) (x;, y;) - pairs are fixed Sulsanples; resample indexes [1, N] with replacement 2) / b 023 Fixed X bootstrap (Bootstrap in residuals) 1) $\hat{y} := \{(x, \hat{\beta}_{01S}) = \hat{\epsilon} = y; -\hat{y}\}$ 2) $y_i = \begin{cases} 1 & \text{fixed} \\ (x_i, y_{as}) + \hat{\epsilon}_i \end{cases}$ Non-parametric Parametric draw sangles & B ~ Non(0,62) with replacement from E Assume: p(&;) = 1

Wild Bootstrap (Wu-bootstrap)

1)
$$\hat{y}_i = \hat{y}_i(X, \hat{\beta}_{DLS}) = \sum_{k=1}^{\infty} \frac{\hat{\xi}_i}{y_i - \hat{y}_i}$$

2) $\hat{y}_i = \hat{y}_i(X, \hat{\beta}_{DLS}) + \frac{\hat{\xi}_i}{y_i - \hat{y}_i}$
 $\hat{\xi}_i = \hat{y}_i - \hat{y}_i$
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