

$$\begin{array}{ccc} \mu_1 & \xleftrightarrow{H_0, H_A} & \mu_2 \\ \sigma_1 & & \sigma_2 \end{array}$$

Population 1

Population 2

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$$\{X_1, \dots, X_m\}$$

$$\{Y_1, \dots, Y_n\}$$

$$\left\{ \begin{array}{c} \bar{X} \\ \hat{\sigma}_X \end{array} \right\}$$

$$T$$

$$\left\{ \begin{array}{c} \bar{Y} \\ \hat{\sigma}_Y \end{array} \right\}$$