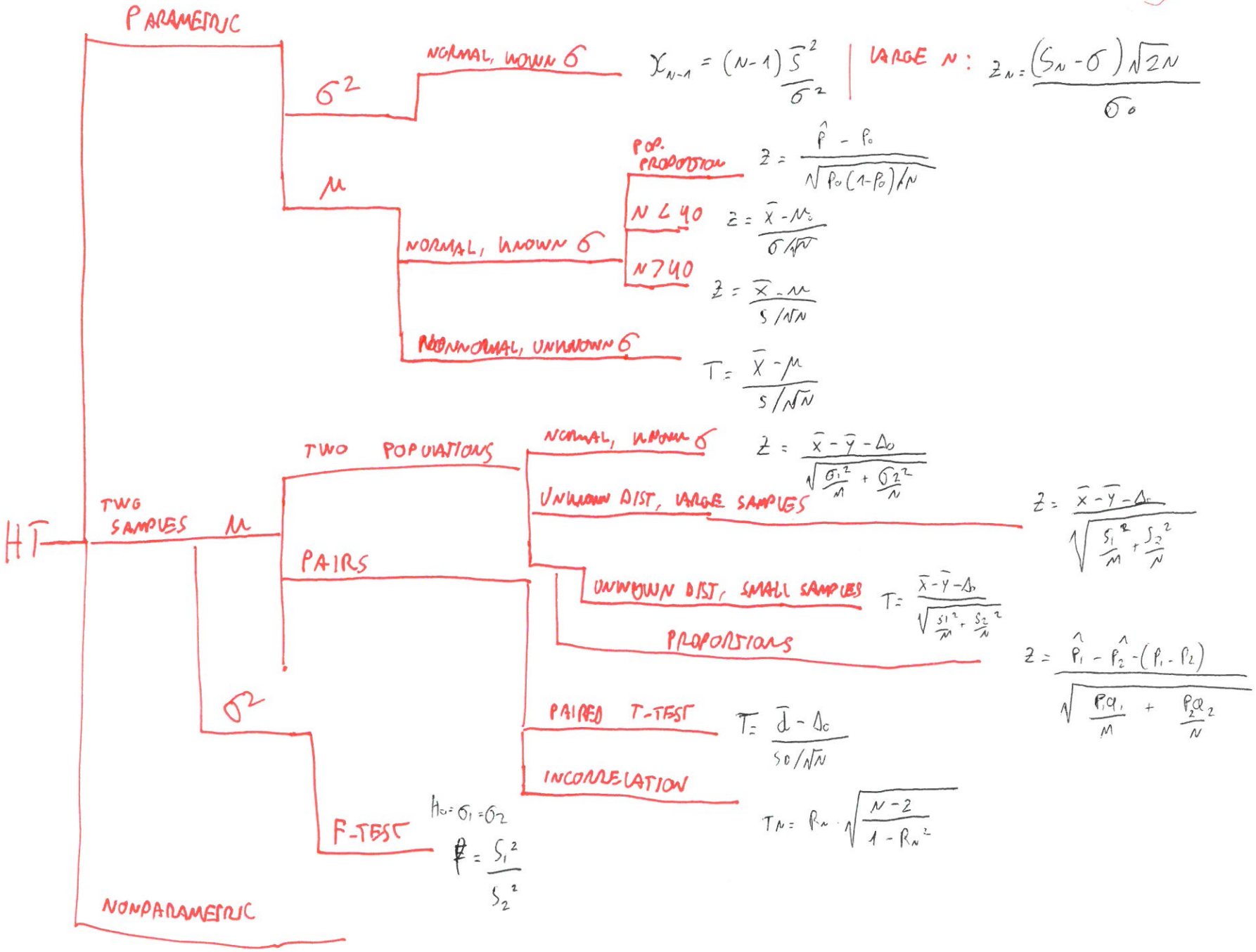
HT
PARAMETRIC
σ^2
NORMAL, KNOWN σ
$\chi_{N-1} = (N-1)\frac{S^2}{\sigma^2}$
LARGE N: $z_N = \frac{(S_N - \sigma)\sqrt{2N}}{\sigma_0}$
μ
POP. PROPORTION
$z = \frac{\hat{P} - P_0}{\sqrt{P_0(1-P_0)/N}}$
NORMAL, KNOWN σ
N < 40
$z = \frac{\bar{X} - \mu_0}{\sigma/\sqrt{N}}$
N ≥ 40
$z = \frac{\bar{X} - \mu}{S/\sqrt{N}}$
NONNORMAL, UNKNOWN σ
$T = \frac{\bar{X} - \mu}{S/\sqrt{N}}$
TWO SAMPLES
μ
TWO POPULATIONS
NORMAL, KNOWN σ
$z = \frac{\bar{X} - \bar{Y} - \Delta_0}{\sqrt{\frac{\sigma_1^2}{M} + \frac{\sigma_2^2}{N}}}$
UNKNOWN DIST, LARGE SAMPLES
$z = \frac{\bar{X} - \bar{Y} - \Delta_0}{\sqrt{\frac{S_1^2}{M} + \frac{S_2^2}{N}}}$
UNKNOWN DIST, SMALL SAMPLES
$T = \frac{\bar{X} - \bar{Y} - \Delta_0}{\sqrt{\frac{S_1^2}{M} + \frac{S_2^2}{N}}}$
PROPORTIONS
$z = \frac{\hat{P}_1 - \hat{P}_2 - (P_1 - P_2)}{\sqrt{\frac{P_1 Q_1}{M} + \frac{P_2 Q_2}{N}}}$
PAIRS
PAIRED T-TEST
$T = \frac{\bar{d} - \Delta_0}{S_D/\sqrt{N}}$
INCORRELATION
$T_N = R_N \sqrt{\frac{N-2}{1-R_N^2}}$
σ^2
F-TEST
$H_0: \sigma_1 = \sigma_2$
$F = \frac{S_1^2}{S_2^2}$
NONPARAMETRIC