## Confidence Interval Formula Sheet

Case 1 (ase 2 Care 3 Dist Normal General General # Observations Anythiy Lorge Large Large Khoun knowh X + 29/2. K Statistic X-1-6/5h 2/2 X-1 X ± Zall · G X + 2012 · 5 CI

Case 5 Normal Anything

X-1 = T

Dist

62 2tahishic

CI

# Observations

5/5/ td, v: 49. freeton x ± t2; n-1. 5

Case 6 (one sided) · Estimate population Standard deviation · Upper bound only (change d/2 => d)

X2 1-0, h-1

Case 6 (tuo sized)  $(N-1)5^2$ 

· To estimate G, take root of results  $\left[\begin{array}{c} \frac{(n-1)s^2}{\chi^2_{\alpha/2,n-1}}, \frac{(n-1)s^2}{\chi^2_{1-\alpha/2,n-1}} \right] \Rightarrow G^2$  $\left[\begin{array}{c|c} (n-1)s^2 \\ \chi^2_{\alpha/2,n-1} \end{array}, \begin{array}{c|c} (n-1)s^2 \\ \chi^2_{1-\alpha/2,n-1} \end{array}\right] \Rightarrow G$ 

· Estimate G2 (variance)

(×/n-P)/ [p(1-p)  $\frac{\times}{N} \pm \frac{2}{N} \times \sqrt{\frac{\frac{\times}{N}(1-\frac{\times}{N})}{N}}$ 

Core 4 Binimial