Les 7 Amh 301 2/23/17

Reine Hypostesis Tessis (3rd goal of sperene) Ly Theory Teamy

though Ha ... alich I was to prove Go I visue the opposite and only occups my theory if there is according airline. Evolume is defined by X.

Ho: they not om yes > Alleges Ha (Ryans Ho)

dan > Efferen ho False igns Ho

Ho: 0 < 0.5 = 00

Hq: 0 > 0.0

Perm > | E Regar >

Po N (0, (50)2)

= N(0.5, (0.5)2)

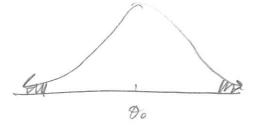
Res Rajin = [0, 0+2, [0] = [0+05+164.05] = [0,058]

if $\theta \in \text{Rex Payor} \Rightarrow F.T.R. Ho$

if g & ") > Regen Ho

And i= P (Sperig draw or | He one) = P(P> & | Proposition) = argm (& Eres Reyn)





two mys to the

these as this you was !

Boyen Up. Tenj

mil die

Lekhon POX

he con colopais P(Ho/X) = P(O < Oo/X) = Secur, bear of the bound de

of pure
$$\angle A \Rightarrow Regent to$$

pure $\angle A \Rightarrow FTR$ to

$$P(b \mid X) = \frac{P(X \mid b \circ)}{P(X)} P(b \circ) \qquad \text{whis the ? } poss of the operation of the operatio$$

/ Da V(0,1) ...

Role of O=X? Nor no loger to rest stratistic

Vex: this school egymber to Do E CRR, O, 1-x => Rem Ho

How
$$\theta \ge \theta_0 = 0.5$$
 $|h_0 \cdot \theta \le \theta_0 = 0.5$
 $|h_0 \cdot \theta \ge \theta_0 = 0.5$
 $|h_0 \cdot$

Nok: equal or Do E CRL, Que > Rom Ho

poth Mel or precise onle" Ho: 0=00 Hr. 0 + 00 pul = P(Holx) = P(O-Oolx) = O (almp) w/? Pruha Muh 241 Du? Wy? In restry all point mulls are absent ... In partie! problem the = +? No. 0.500001 real or Two ideas () has 0.500001 = 0.5 for all possue puposes => Ho: O ∈ (0, ± 1] (de: 0 \$ 6. + 5) a rayin of equales shis is well also you rem! Who is rupi of equalen for coin of the S=0.01? (3) Ho: 0=00 if plaintle Ha: O + Oo Do ∈ CRO,1-x > Retain Do € CRO,1-A > Rgien P-vote Cruhon Los nos clam. This goes to be consessed ... which is uf me me Byes Facsors (SDO)

Exples

Ho: 0=,1

Hn: 0>,1

 $\alpha = 5\%$, n = 150, x = 23

Res Rayn = [0, .1 + 1.67 \frac{1.9}{150}] = [0, .140]

Ô = .153 € Res Payn => Pagect Ho { pre:= P(\$2.153/0=.1)

Angesim ... On U(0,1) - Bem (1)

0/x n Bem (x +x, B+4-x) = ben (24, 128)

Jul:= P(0=.1/x) = Sen(20,128) d0 = plen (.1,29,126) = .01544 Simla!

Ho: 0=,5

Ha: 0 + .5

X= 51

5=100

X = 61

Res Pay = [.5 + 2 \[\frac{5.5}{100} \] = [.4,.6]

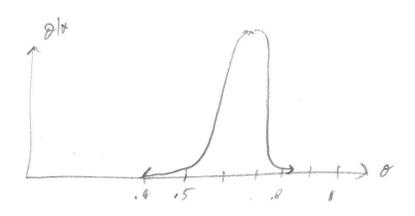
0=.61 & Ret Pyr => Rot

pul = (4 = 16 | -15) = 2 P(Z > 2.2) = 2 (1-pun (2.2)) = .0278

Byen 0 ~ (6,1)

8 X ~ Jen (62, 40)

 $\exists Ho: \Theta \in (41,51) \quad i.e. \int = .01 \quad equalse mayin$ $Ha: \Theta \notin [.49,51)$



Anthr my to "kst". Byggon like the keten

$$h = 100$$
 $\Rightarrow 0 = .61$ $\times = 61$

$$X = 61$$

B

Pefine B:= PH(X)

PHo(X)

Bayes Factor

Accomm.

Prob of

if b big => He is a kene model for obe door, X.

decommon in Eges Pule!!

Prob of dary!

 $= \int_{H_{q}} P(x|\theta) P_{H_{q}}(\theta) d\theta$ $= \int_{H_{q}} P(x|\theta) P_{H_{q}}(\theta) d\theta$

P(NO) P(O) 40

 $\frac{1}{\sqrt{\frac{100}{61}}}$, $\frac{100-61}{\sqrt{\frac{100-61}{61}}}$ (1) $\frac{1}{\sqrt{\frac{100}{61}}}$

 $= \frac{6(62, 40)}{5100} = 1.39$

Ha bester model... bes i've deliste?

Teffreig 1961 scale of large From Ringrams for Ha

valiting of