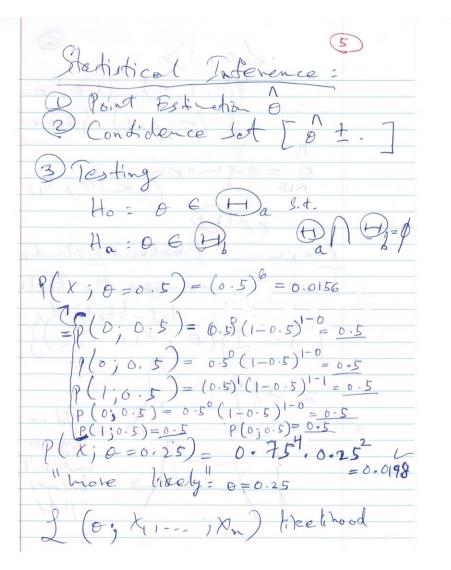
Feb-01-16 / Lecture-1/ 1 X13 a 8.V. Suppose (x) CM x=1 (realization) (data) Flipping coin Hal To 1 supp (x)) >1 (not son do m) 1 supp (x) ((N) 7 is a discrete r.V. Xis a continous 8.V. It it is discrete p.m.f 9. supp(x) → (0,1) not & If it is continous, x has f (x) PDF (Density) All b.v.'s have F(x) C.D.F $P(x \in [a,b]) := P(X \leq x)$

~ P(XE[x, x+8] 5211 02

parameters bolony la parametrice statistical models. =(0,1)Indo $\theta = \begin{bmatrix} \theta_1 \\ \theta_2 \end{bmatrix}$ XN N(01102) parametric models.

P(x;0) 8) X assuring 0 = x ssorring a parametric value Corresponding data X2;0) --- P



20,1> likelihood Estrudor - likel, hood of

0; X,) --- , $= \ln \frac{1}{10} \times (1-0) \times (1-0)$ (n-nv) x isgina

long run, anetraje MLES properties OMLE PO Godandson dada set. 3 SE(0) < SE (Bothers)

for 2 Dmie ~ N(0, SE(Bmie) 1 soposes ~ N(0, (6(1-6)) ?