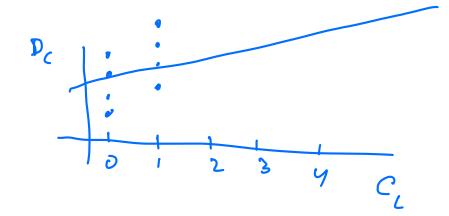
MW 1230-130

Monday Nov 13 Hw: Due Thurs 11:59 PM

Properties of cos operatos X,Y,Z any random variables

(ov(x,y+2) = cov(x,y) + cov(x,2)dos(aX,Y) = a dos(x,Y)



Yer Poisson (Mi)

Possen (gu) = e n

- logye,

log p (yi) = -e (ax,+6) + y, (ax,+6) - logyi

logy1 = = = x1 + 1

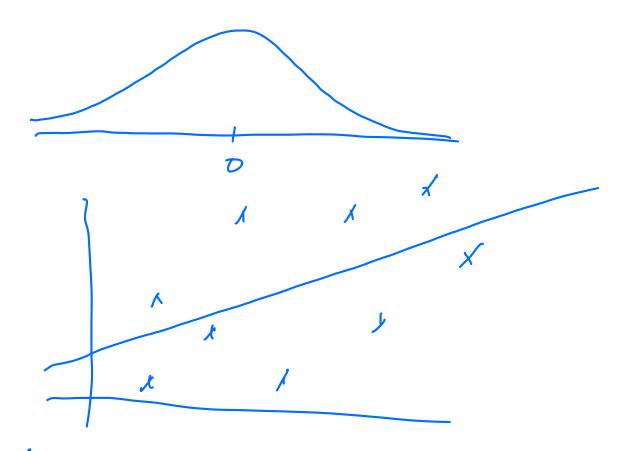
ZI Les plgi) = L(a,6) optimize to find a,6

$$y_L = a + b \times i + \Sigma i$$
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$$\xi_i \sim \text{other deal rhotin}$$

$$f(a) = \bot$$

$$\pi \sigma (1 + (4/\sigma)^2)$$



Fact
$$f(2) \text{ is density of } Z$$

$$W = \mu + Z$$

$$density of W \text{ is } f(w - \mu)$$

Normal

MCE
$$\iff$$
 minimize \implies $\sum_{i} (y_i - y_i)^2$
 $y_i = a + b \pi i$

Cauchy

MLE minimize $\sum_{i} log(1 + (y_i - y_i)^2)$

Yn Poisson (a)
$$X_{L}$$
 X_{L} Poisson (μ_{L})
 $X_{L} = \exp((X_{L})_{L})$
 $X_{L} = \exp((X_{L})_{L})$
 $X_{L} = \exp((X_{L})_{L})$
 $X_{L} = \exp((X_{L})_{L})$

$$II = e^{\frac{a+bx_i}{h(\mu)}} = \log(\mu)$$

$$\log IV_{L} = a+bx_{i}$$

 $p(x) = \frac{1}{1 + e^{-(\alpha_1 + \delta_1 x)}}$ $x_i = \frac{1}{1 + e^{-(\alpha_1 + \delta_2 x)}}$