- our of on showing is to assumed and to esther possenting - Awar streets is to estable the poll acrectly of Kernal density estimation

- ) Def -> Karnel Function , Kill) , is a plot wil a parameters

- in absord value Xi - mon of Kernel Knothen's deprivation in bouluists to

sproperfees is symmetric near xi

-> Mototo- -> Kil.) A The front known who X: A to come or 745 downth d Magnetines - , band width & Jakoperharm dynamics on the Kill closes

-) Base like -11 classe a doubt form of Ki.) -> Rectangular, triangular, or province -> 1) Explanate fire as the automore of K.(20, ..., K.(x.)

yours, the herest density estated of the or



b = helf length, or rectously (domain)

-1 ex) of = (5,2.6), we builtist of to 1) estimate \$15.0)

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) + K_{3}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{3}(3,2) + K_{3}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) + K_{3}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) + K_{3}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) + K_{3}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{2}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

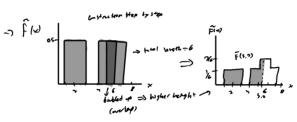
$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

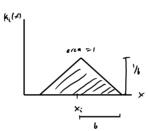
$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$F_{(3,2)} = \frac{1}{3} \int_{C} K_{1}(3,2) + K_{2}(3,2) \int_{C} \frac{k_{3}(1)}{k_{3}(1)} dx$$

$$\Rightarrow \hat{f}(s, x) = \frac{1}{2} \left( \frac{1}{2} \cdot 0 + \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \cdot 0 + \frac{1}{2} \cdot \frac{1}{2$$



-> Triangular Kernel -> assumes 13. scokes triangle for the kernel Kneton



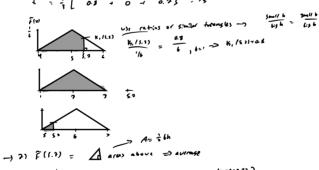
-> ex) 7x = (5, 2.6), use budulate or 3 to 1) estamble \$15.27

$$\frac{1}{2} \int_{0}^{\infty} f(s, 0) = \frac{1}{2} \left[ f(s, 0, 0) + f(s, 0) + f(s, 0) \right]$$

$$\frac{1}{2} \left[ f(s, 0) + f(s, 0) + f(s, 0) \right] = \frac{1}{2} \left[ f(s, 0) + f(s, 0) + f(s, 0) \right]$$

$$\frac{1}{2} \int_{0}^{\infty} f(s, 0) + f(s, 0) \right]$$

$$\frac{1}{2} \int_{0}^{\infty} f(s, 0) + f($$



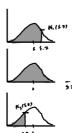
$$A = \frac{1}{3} \text{ (i.7)} = A = \frac{1}{3} \text{ (ins. (i.6) - 0.1 (0.5)} + 1 + \frac{16.73(0.5)}{2}$$

$$= \frac{1}{3} \left[ \cos ((0.5 - 0.1 (0.5)) + 1 + \frac{16.73(0.5)}{2} \right]$$

$$= 0.1467$$

Sacissian Kernel - assumes when density wy man 70 + variance 62 => 16 = 6

-> ex) x = (5,2.6), ye budulath or 3 to 1) estimak 715.2) 1) M(X L S. 2)



$$= \frac{1}{3} \left\{ \begin{array}{l} p_{\text{partin}}(3.3, 5, 1) + \\ p_{\text{partin}}(5.2, 7, 1) + \\ p_{\text{partin}}(5.3, 6, 1) \end{array} \right\}$$

$$= \frac{1}{3} \left\{ 0.5742 + 0.6613 + 0.2117 \right\}$$