

$$y = y$$

$$(x_{i}, y_{i})$$

LOESS

LOWESS

$$RSS_{x}(A) = \sum_{i=1}^{N} (y_{i} - Ax_{i}^{i})^{T} w_{i}(x) (y_{i} - Ax_{i}^{i})$$

$$W(x_i) = e \times p \left(-\frac{(x_i - x)^2}{26^2}\right)$$
  
 $\hat{X} = (1 \times x)$ 

 $\hat{X}_{i} = (1, X_{i})$   $\hat{X}_{i} = (1, X_{i}, X_{i}^{2})$  quoduatic

$$A(x) = Y W(x) \stackrel{\wedge}{X}^{T} (\stackrel{\wedge}{X} W(x) \stackrel{\wedge}{X}^{T})^{-1}$$

$$Yes+(x) = A(x) \hat{x}$$