

# NUMERICAL METHODS

C / KAPPA EXAM 12 / 11/19 / 2022 / 20.00

## LEAST SQUARES REGRESSION

Goal: minimize the sum of the squares of the residual errors.



$$S_r = \sum_{i=1}^n d_i = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)$$

1. sum of the square errors.  
2. minimize the square of the errors.

$$a_0 = \frac{\sum y_i - a_1 \sum x_i}{n}$$

$$a_0 = \frac{\sum y_i}{n} - a_1 \frac{\sum x_i}{n} \Rightarrow a_0 = 5 - 0.8$$

## STANDARD ERROR:

$$S_{y_1} = \sqrt{\frac{\sum y_i^2}{n-2}} \quad S_{y_2} = \sqrt{\frac{\sum (y_i - \bar{y})^2}{n-2}}$$

## STANDARD DEVIATION:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-1}} \quad S_x = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

$$a_0 = 5 - 0.8x$$

$$y = a_0 + 0.8x$$

## POLYNOMIAL QUADRATIC REGRESSION:

$$S_r = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$$

Take derivative of  $S_r$  to find the error.

$$\frac{\partial S_r}{\partial a_0} = -2(\sum y_i - \sum a_0 - a_1 \sum x_i - a_2 \sum x_i^2) = 0$$

$$\frac{\partial S_r}{\partial a_1} = -2(\sum y_i x_i - \sum a_0 \sum x_i - a_1 \sum x_i^2 - a_2 \sum x_i^3) = 0$$

$$\frac{\partial S_r}{\partial a_2} = -2(\sum y_i x_i^2 - \sum a_0 \sum x_i^2 - a_1 \sum x_i^3 - a_2 \sum x_i^4) = 0$$

$$\begin{bmatrix} \sum 1 & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum y_i x_i \\ \sum y_i x_i^2 \end{bmatrix} \rightarrow [A][X] = [B]$$

$S_y = \sqrt{\frac{\sum y_i^2}{n}}$   
COEFFICIENT OF DETERMINATION  
 $r^2 = \frac{S_{y_1}^2}{S_y^2}$

## PDE'S

### FINITE DIFFERENCE METHOD:



### PROBLEM 1:



$$u_0(x,y) = u(x,0) = 0$$

$$u_0(x,y) = u(x,1) = 0$$

### BC: (boundary conditions)

- Top boundary:  $u = 0$

- Bottom boundary:  $u = 0$

- Right boundary:  $u = 0$

- Left boundary:  $u = 0$

- Central difference:  $u_{i,j} = \frac{u_{i+1,j} + u_{i-1,j} + u_{i,j+1} + u_{i,j-1}}{4}$

### PROBLEM 2:



### RIGHT BOUNDARY B.C.

$$\frac{\partial u}{\partial x} = 0 = \frac{u_{i+1,j} - u_{i-1,j}}{2\Delta x}$$

$$u_{i+1,j} = u_{i-1,j} + 2\Delta x \frac{\partial u}{\partial x}$$

### PROBLEM 3:



### BOTTOM BOUNDARY B.C.

$$\frac{\partial u}{\partial y} = 0 = \frac{u_{i,j+1} - u_{i,j-1}}{2\Delta y}$$

$$u_{i,j+1} = u_{i,j-1} + 2\Delta y \frac{\partial u}{\partial y}$$

### PROBLEM 4:



### TOP BOUNDARY B.C.

$$\frac{\partial u}{\partial y} = 0 = \frac{u_{i,j+1} - u_{i,j-1}}{2\Delta y}$$

$$u_{i,j+1} = u_{i,j-1} + 2\Delta y \frac{\partial u}{\partial y}$$

### 5th ROW OF A MATRIX

Local's point not adjacent to boundary



### LEFT BOUNDARY B.C.

$$u_{1,j} = u_{3,j} - 2\Delta x \frac{\partial u}{\partial x}$$

## EIGEN VALUES

$\lambda = \text{eigen value}$

### Example:

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

### TO SOLVE:

$$\begin{bmatrix} a_{11}-\lambda & a_{12} & a_{13} \\ a_{21} & a_{22}-\lambda & a_{23} \\ a_{31} & a_{32} & a_{33}-\lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

### Single 2x2:

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$[A] = \frac{1}{\det(A)} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix} \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

$$\begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$\lambda = \frac{a+d}{2} \pm \sqrt{\left(\frac{a-d}{2}\right)^2 + bc}$$

### Two eigen values with same

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$x_1 + x_2 = 0 \Rightarrow x_1 = -x_2$$

$$x_1 + x_2 = 0 \Rightarrow x_1 = -x_2$$

$$x_1 = \begin{bmatrix} 1 \\ -1 \end{bmatrix}$$

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$-x_1 + x_2 = 0 \Rightarrow x_1 = x_2$$

$$x_1 + -x_2 = 0 \Rightarrow x_1 = x_2$$

$$[A] = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

## [A] MATRIX:

$$-2u_{i,j} + 4u_{i,j} - u_{i,j-1} - u_{i,j+1} = -2\Delta x \frac{\partial^2 u}{\partial x^2}$$

$$-2u_{i,j} + 4u_{i,j} - u_{i,j-1} - u_{i,j+1} = -2\Delta x \frac{\partial^2 u}{\partial x^2}$$

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$$-2u_{i,j} + 4u_{i,j} - u_{i,j-1} - u_{i,j+1} = -2\Delta x \frac{\partial^2 u}{\partial x^2}$$

## TRIC POINTS:

CENTERED FINITE-DIFFERENCE DERIVATIVE

$$f'(x) = \frac{f(x_1) - f(x_0)}{\Delta x}$$

$$f'(x) = \frac{f(x_1) - f(x_0) + 3f(x_2) - 3f(x_3) + f(x_4)}{4\Delta x}$$

Taylor Series:  
 $y(x+\Delta x) = y(x) + \Delta x \frac{dy}{dx}(x) + \frac{\Delta x^2}{2} \frac{d^2y}{dx^2}(x) + \dots$   
 $y(x-\Delta x) = y(x) - \Delta x \frac{dy}{dx}(x) + \frac{\Delta x^2}{2} \frac{d^2y}{dx^2}(x) - \dots$

## CLASSIC 1D ODE: EULER-MULTA:

$$y_{n+1} = y_n + \Delta x f(x_n, y_n)$$

$$y_n = f(x_n, y_n)$$

$$k_1 = f(x_n, y_n), y_n = y_n$$

$$k_2 = f(x_n + \frac{1}{2}\Delta x, y_n + \frac{1}{2}k_1\Delta x)$$

$$k_3 = f(x_n + \Delta x, y_n + k_2\Delta x)$$

$$y_{n+1} = y_n + \Delta x \frac{k_1 + 4k_2 + k_3}{6}$$

$$y_{n+1} = y_n + \Delta x \frac{k_1 + 4k_2 + k_3}{6}$$

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