

# NUMERICAL METHODS

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### LEAST SQUARES REGRESSION

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

Residual error:  $e_i = y_i - \hat{y}_i$

Sum of squares of residuals:  $S = \sum_{i=1}^n e_i^2 = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)^2$

Normal equations:

$$\frac{\partial S}{\partial a_0} = -2 \sum_{i=1}^n (y_i - a_0 - a_1 x_i) = 0$$

$$\frac{\partial S}{\partial a_1} = -2 \sum_{i=1}^n x_i (y_i - a_0 - a_1 x_i) = 0$$

Matrix form:  $\begin{bmatrix} n & \sum x_i \\ \sum x_i & \sum x_i^2 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \end{bmatrix}$

### STANDARD ERROR:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-2}}$$

$$S_{y|x} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$$

### STANDARD DEVIATION:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-1}}$$

$$S_{y|x} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$$

### INTERPOLATION

Use a polynomial  $P(x)$  to approximate  $f(x)$ .

Degree 1	Degree 2	Degree 3	Degree n
1 point	2 points	3 points	n+1 points
Line	Parabola	Cubic	Polynomial
$P(x) = a_0 + a_1 x$	$P(x) = a_0 + a_1 x + a_2 x^2$	$P(x) = a_0 + a_1 x + a_2 x^2 + a_3 x^3$	$P(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n x^n$
Linear	Quadratic	Cubic	Polynomial
n=1	n=2	n=3	n=n

Newton's forward difference formula:

$$P(x) = f(x_0) + \frac{f(x_1) - f(x_0)}{h} (x - x_0) + \frac{f(x_2) - 2f(x_1) + f(x_0))}{2! h^2} (x - x_0)(x - x_1) + \dots$$

### POLYNOMIAL QUADRATIC REGRESSION

Goal: minimize the sum of the squares of the residual errors for a quadratic fit.

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

Normal equations:

$$\frac{\partial S}{\partial a_0} = -2 \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0$$

$$\frac{\partial S}{\partial a_1} = -2 \sum_{i=1}^n x_i (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0$$

$$\frac{\partial S}{\partial a_2} = -2 \sum_{i=1}^n x_i^2 (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0$$

Matrix form:  $\begin{bmatrix} n & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \\ \sum x_i^2 y_i \end{bmatrix}$

### ODE'S

#### Euler's Method

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

#### Runge-Kutta Method

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x + \frac{\Delta x^2}{2} f''(x_i, y_i) + \dots$$

#### Taylor Series

$$y(x) = y(x_0) + y'(x_0)(x - x_0) + \frac{y''(x_0)}{2!}(x - x_0)^2 + \dots$$

### CLASSIC 4th ORDER RUNGE-KUTTA

$$y_{i+1} = y_i + \frac{\Delta x}{4} (k_1 + 3k_2 + 3k_3 + k_4)$$

$k_1 = f(x_i, y_i)$   
 $k_2 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}\Delta x k_1)$   
 $k_3 = f(x_i + \frac{1}{2}\Delta x, y_i + \Delta x k_2)$   
 $k_4 = f(x_i + \Delta x, y_i + \Delta x k_3)$

### PDE'S

#### FINITE DIFFERENCE METHOD

Central difference approximation for Laplace's equation:

$$\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$$

### EIGEN VALUES

Find eigenvalues  $\lambda$  and eigenvectors  $\mathbf{v}$  for matrix  $A$ .

$$(A - \lambda I) \mathbf{v} = \mathbf{0}$$

Example:  $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

$$\det(A - \lambda I) = \det \begin{bmatrix} a - \lambda & b \\ c & d - \lambda \end{bmatrix} = (a - \lambda)(d - \lambda) - bc = 0$$

$$\lambda^2 - (a + d)\lambda + (ad - bc) = 0$$

### Single 2x2

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

$$\det(A - \lambda I) = (a - \lambda)(d - \lambda) - bc = 0$$

$$\lambda^2 - (a + d)\lambda + (ad - bc) = 0$$

### 3x3 matrix

$$\begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

### 3x3 matrix

$$\begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

### HEAT CONDUCTION

1D heat conduction in a slab of length  $L$ .

Boundary conditions:

- Left boundary:  $T = T_1$
- Right boundary:  $T = T_2$

Central difference approximation:

$$u_{i+1} - 2u_i + u_{i-1} = \frac{\Delta x^2}{2\alpha} (u_{i+1} - 2u_i + u_{i-1}) + q$$

### HEAT CONDUCTION

2D heat conduction in a rectangular domain.

Boundary conditions:

- Top boundary:  $T = T_1$
- Bottom boundary:  $T = T_2$
- Left boundary:  $T = T_3$
- Right boundary:  $T = T_4$

### HEAT CONDUCTION

3D heat conduction in a rectangular domain.

Boundary conditions:

- Top boundary:  $T = T_1$
- Bottom boundary:  $T = T_2$
- Left boundary:  $T = T_3$
- Right boundary:  $T = T_4$
- Front boundary:  $T = T_5$
- Back boundary:  $T = T_6$

### 5th ROW OF A MATRIX

Row reduction of a matrix  $A$ .

$$\begin{bmatrix} 0 & 1 & 0 & -1 & 0 & -1 & 0 & -1 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \\ x_6 \\ x_7 \\ x_8 \\ x_9 \end{bmatrix} = 0$$

### [A] MATRIX

Matrix  $A$  for the heat conduction problem.

$$A = \begin{bmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & -2 & 1 & 0 & 0 & 0 & 0 & 0 \\ \vdots & \vdots \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -2 \end{bmatrix}$$

### FINITE DIFFERENCE

Centered finite-difference approximation for the Laplace equation.

$$u_{i+1,j} - 2u_{i,j} + u_{i-1,j} + u_{i,j+1} - 2u_{i,j} + u_{i,j-1} = 0$$

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