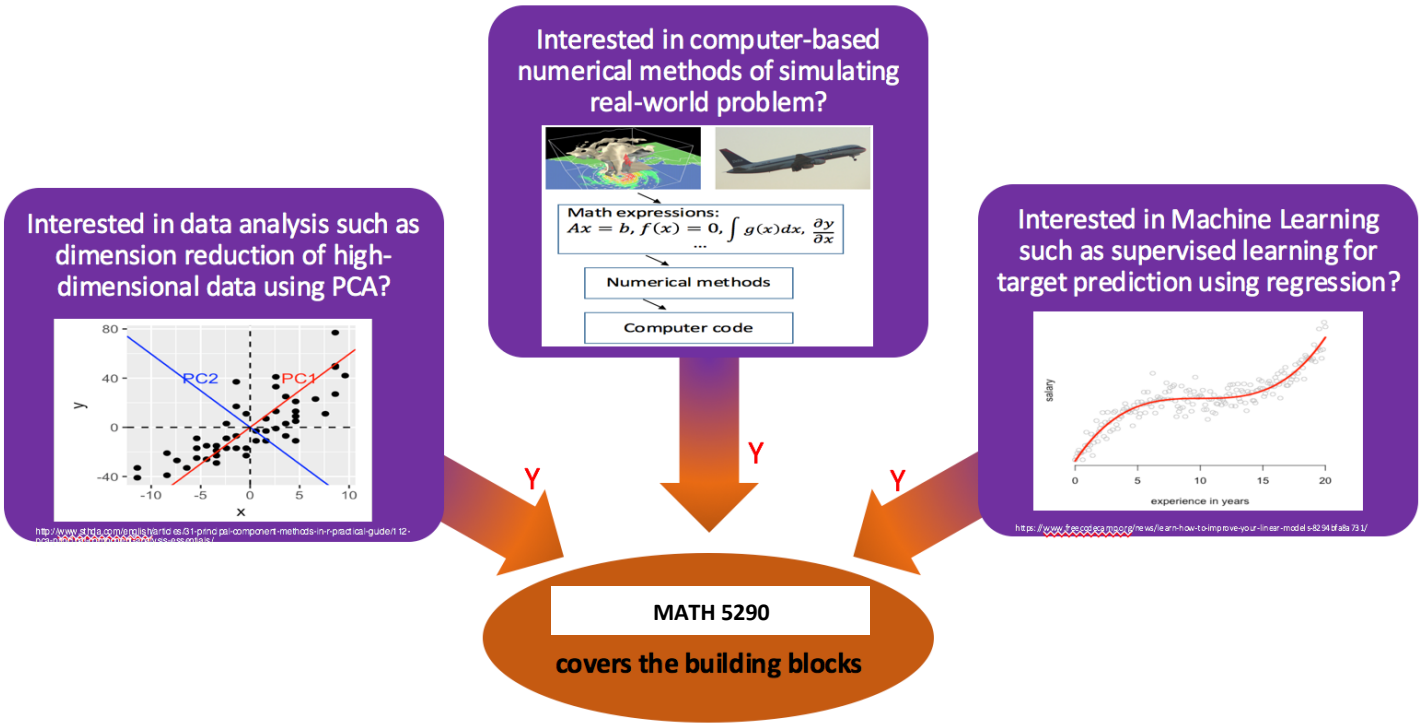
MATH 5290 Numerical Methods

by Dr. Yanyan He (Spring 2024)



Course details:

Instructor:
Dr. Yanyan He, Assistant Professor
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Research interests:
uncertainty quantification, uncertain data analysis

Content:

- System of equations and matrix decomposition
- Singular value decomposition and principal component analysis
- Least squares problem
- Numerical integration
- Monte Carlo methods
- Nonlinear equations
- Polynomial and spline interpolation

Time & location:
MW 9:30-10:50am NTDP F285

Textbook: none

Course score composition:
Homework/project: 100%
(No Final)

Prerequisite:
Calculus, Linear Algebra, and Programming