With this in mind, the interest of the course is in leveraging numerical computations in pursuit of these fundamental calculations within the hierarchy of

### Course Topics

- Bootstraping Methods
- Constrained optimization
- Newton-Like Methods
- Deep Neural Networks (DNNs)
- Textbook Readings

### Programming Homework Assignment 1

- Floating-Point Numbers
- Programming Portfolio Assignments

### Regrade requests regarding the

- Challenges
- Students must be able to work from a computer with reliable internet connectivity during the normal three (3) hour class lecture period on course days with Coding Challenges.

### Grading will be automated with

- The
- Two five-minute breaks may be taken during the
- Automated test wrongly failing for nearly all students

### For private communications, e.g., regarding accomodations, etc., use the course email

- sta410@utoronto.ca

### Challenges

- Students may not receive or share information about the

### Coding Challenges

- As a result of physical proximity to any other individuals during the

### In-person lectures will not be recorded. Online lectures will not be set to record automatically; however, if remembered (or reminded) the "Zoom record meeting" can be

### Programming Portfolio Assignments

- Only completed and apppropriately formatted submissions will be graded.

### Beause of

- It's not necessary, but if you wish to have a local

### Expectation/minorization-maximization, e.g., for censoring and mixture models

### Expectation-Maximization

### Regularization

### Comparison of Bases: Lagendre versus Laguerre Polynomials for

### Computational Efficiency in Standard Polynomial Bases

### Transformation Applicability

### Gram–Charlier and Edgeworth Series and Cornish-Fisher Expansion

### LU Decomposition

### Eigendecomposition

### Symplectic Integration

### Modulus Recursion

### Biased Sampling

### Inverse Autoregressive Flows (IAFs)

### Bit Arithmatic II: Special "Numbers"

### Pseudorandom Numbers

### Comparing Bases: Lagendre versus Laguerre Polynomials for

### Coding Challenges

- Students may not receive or share information about the

### Automated test wrongly failing for some students but not others

### Only completed and apppropriately formatted submissions will be graded.

### Paired students must BOTH separately submit their (common) work

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