

Colloquium Series



The [Department of Mathematics at Knox College](#) is proud to welcome Knox College student

Hao Li

Candidate for a major in Mathematics. The title of his talk is

Using neural networks to recognize handwritten digits and to approximate simple functions

The problem we are going to solve is how to use neural networks to recognize handwritten digits. This presentation will focus on constructing the network and understanding the mathematical principles behind the network. The network will be implemented by Python code and through a little modification, such neural network can be used to approximate simple multivariable functions.

A 5x5 grid of handwritten digits. The digits are: Row 1: 5, 0, 4, 1, 9; Row 2: 2, 1, 3, 1, 4; Row 3: 3, 5, 3, 6, 1; Row 4: 7, 2, 8, 6, 9; Row 5: 4, 0, 9, 1, 1.

5	0	4	1	9
2	1	3	1	4
3	5	3	6	1
7	2	8	6	9
4	0	9	1	1

Where: SMC A-203

Online: Zoom Room
Meeting ID: 81145382569
Passcode: 530597

When: Friday, May 28, 2021
4:00 – 4:45 pm