GRADUATE SEMINAR

Name: Baruch Sokaribo

Title: Analyzing Distributions, Using a Systematic Programmable Approach

M.Sc. Student supervised by Prof. Donald Stanley

Date: 11th August 2023 Time: 11am Location: Math Lounge

Abstract: Analyzing Distributions using a systematic programmable approach is an intricate process that involves meticulously examining the various data distributions with the aid of algorithmic strategies. Starting from a data set we create a histogram with a fixed number of boxes. Next, we replace this with a sequence of 0s and 1s depending on if the number of samples in a box is more or less than average. We then count the number of sequences of 0s. We apply this to a normal distribution and see how the result varies both with the sample size and the number of boxes. This systematic and programmable framework enables researchers to unravel intricate details within the data, gain insights into the underlying structures and make informed inferences about the distribution's characteristics.



