# Introduction

Wednesday, September 1, 2021    6:23 PM

- Linear Regression
  - Supervised Learning $\Rightarrow$ $(X, Y)$ $\Leftarrow$ Continuous Domain
    $$R^p, R^1$$

✳ Inference :
  - Relationship between $Y$ & $X_S$
  - Strength of relationship
  - Feature selection/importance : $X_S$
  - Accuracy of prediction
  - Linearity assumption check ?
  - Synergy between $X_S$ $\Rightarrow$ Interactions : $X_u, X_j,$
    $$f(X_u, X_j)$$