Project 4

Introduction:

Topic:

Snow Gauge : measuring the density of snow ❄ ???? ⟷ radio active source decay (signal emissions)

⟷ predict flooding

Goal: Develop a procedure to calibrate the snow gauge by predicting the snow density.

Data:

Polyethylene blocks ⇒ simulate snow . 30 measurements ⇒ 10 reported measurements of same thing

⇒ amplified version of the gamma photon count

⇒ predict snow density from the "gain"

* multiple x for one y. (when plotting)
* Use the blue dot to predict everything else
* Use regression to predict rather than making causual relationship.
* Not independent observations ⇒ look at the simulated data

Background

x snow density
m "gain"
} ⇒ exponentialize them

Investigation

- Fitting

  Whether the regression model is appropriate
- Predicting
- Cross-Validation

DUE

At The End of

WK 7