

# **PREDICTORs of AMBITIOUS TEACHING in CHICAGO**



# Two schools, different cultures of instruction



# ‘Ambitious Instruction’:

How often do you have to...

- solve a problem with multiple steps that takes more than 20 minutes
- discuss how cultural context affects an author’s writing

# ‘Ambitious Instruction’:

How strongly do you agree..

- The teacher expects me to do my best at all times.
- The teachers want us to become better thinkers, not just memorize.

# 5Essentials

## **Survey Data**

Teachers, Parents, Students



## **School Metrics and Classifications**

## **Demographic Data**



**Illinois  
State Board of  
Education**

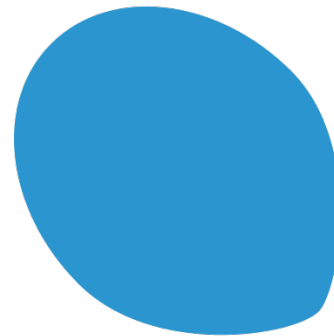
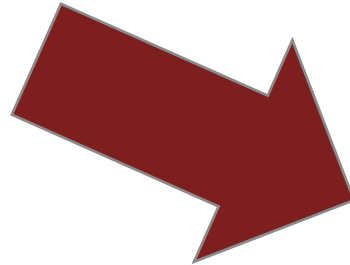
## **Other Metrics**

*(e.g. principal turnover)*

# 5Essentials



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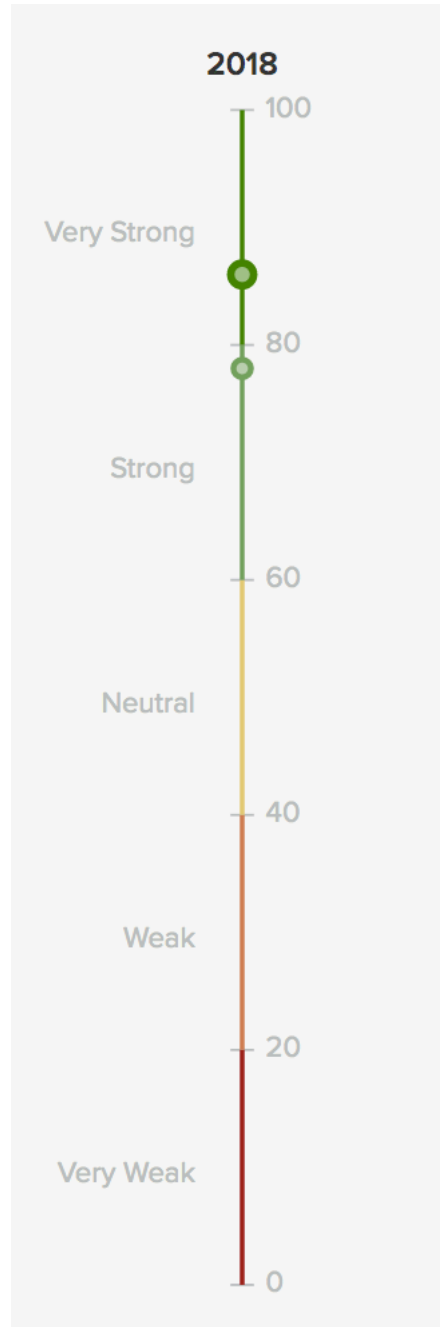


## Ridge Regression



# RMSE

7.3 points



Range from 0-99  
20 points per level



# **NOT PREDICTORS**

- **Size of school**
- **Elementary vs. high school**
- **% students in special education**
- **SQRP points**
- **Charter vs. non-charter**



# PREDICTORS

- **Supportive Environment ( 8x )**
  - ➔ Safety, Student-Teacher Trust
- **% Students on Free/Reduced Lunch ( 3.5x )**

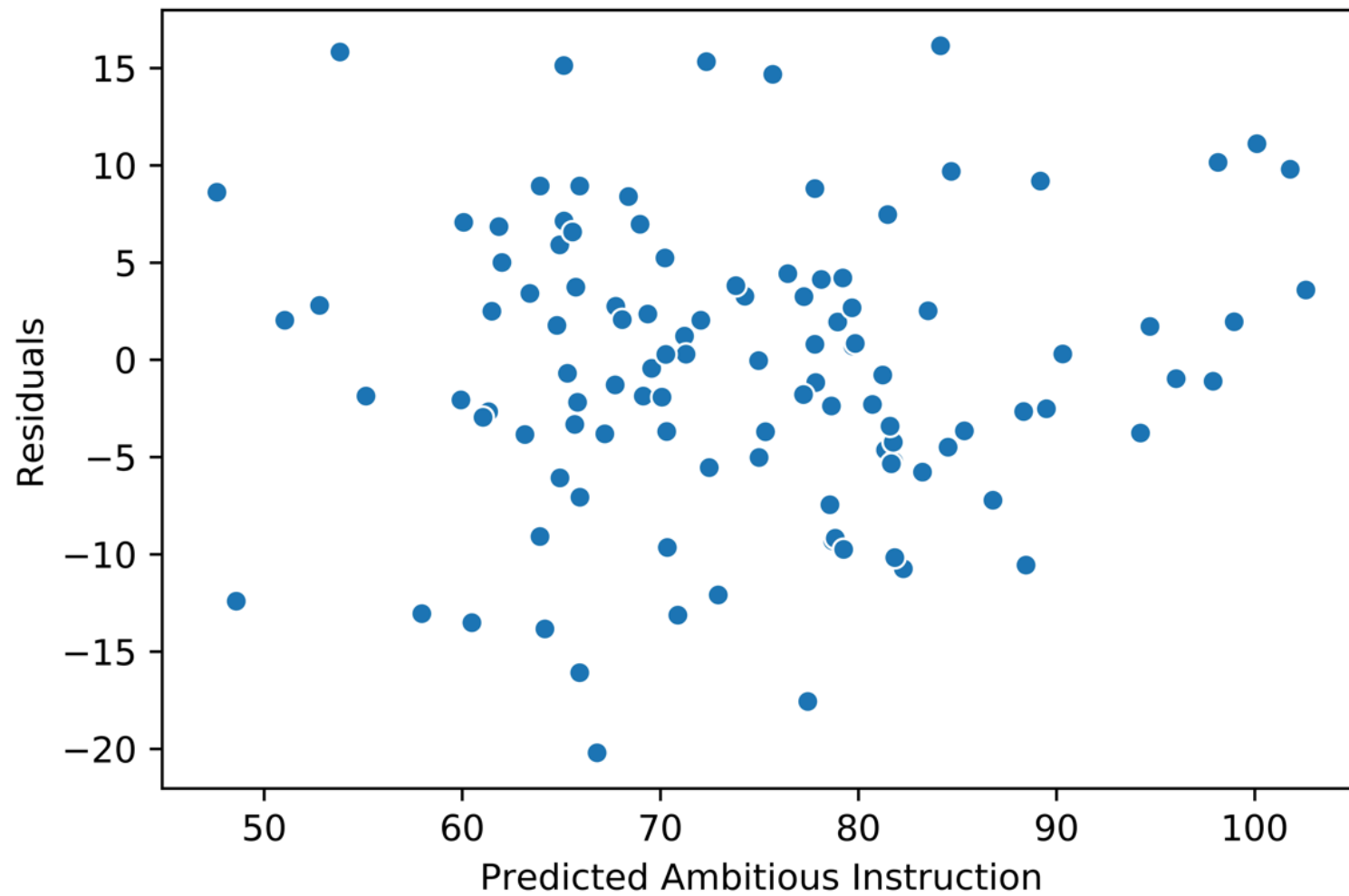
NOTE: positive correlation
- **% Bilingual ( -3.3x )**

**THANK**

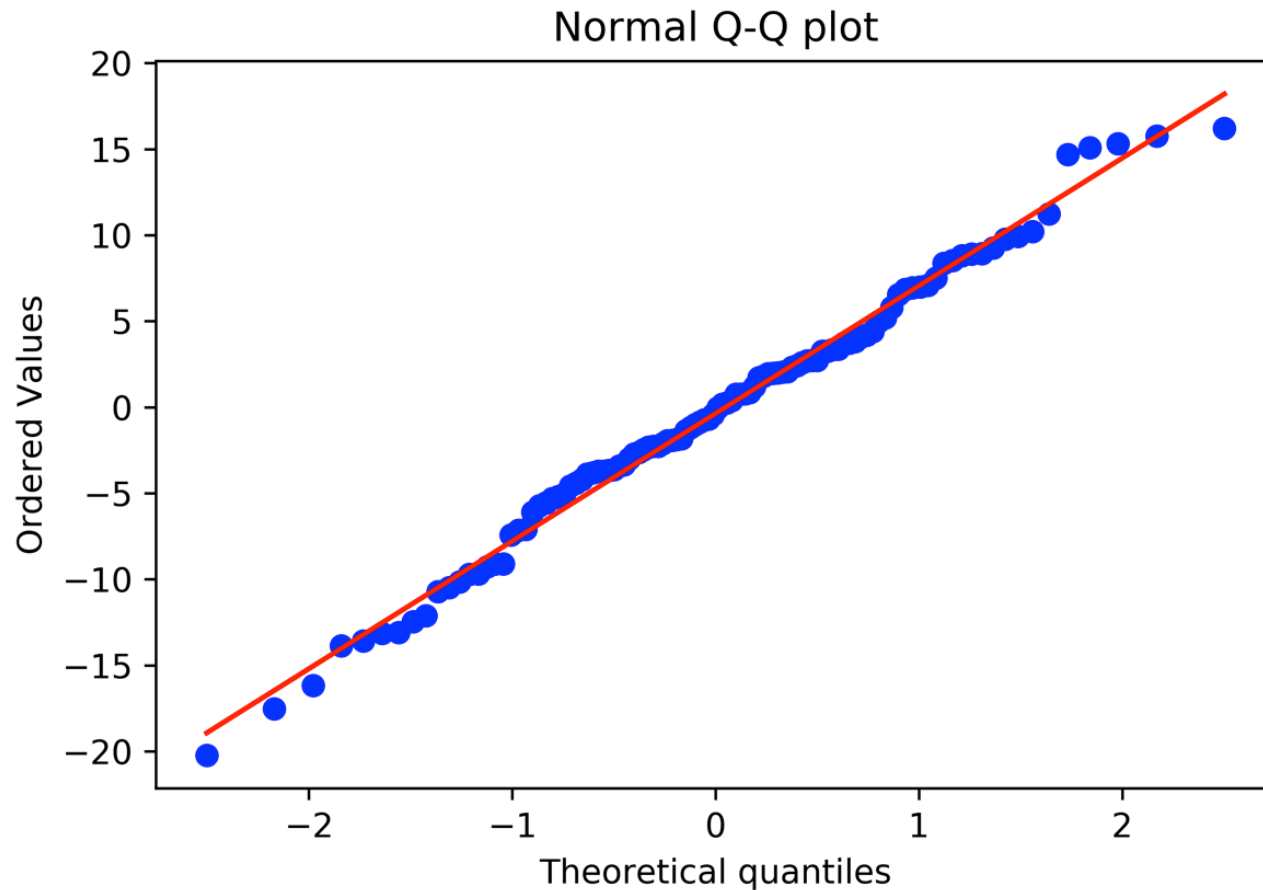
**YOU**



# Residuals



# Residuals Q-Q Plot



# Feature Correlation

