

# Achievement Gap

In Primary Schools in the Netherlands

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# Background

**Research Question:** How did socioeconomic status impact the performance of elementary school children in the Netherlands before and during the Covid-19 lockdown?

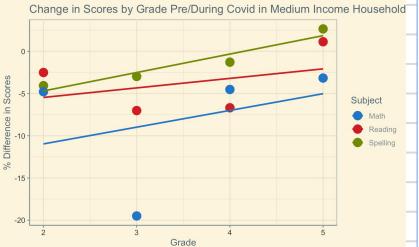
- We focused on test scores of Dutch students Grades 2-5
- Looking at the changes between students in 'High' and 'Medium' income household
- As well as families with 'High' and 'Medium' levels of parental education
- Scores taken prior to Covid-19 and During

### **Data Collection**

- Gathered from NCO database (owned by Dutch gov)
- From national education registry
- Includes all students at nationally funded schools
- Info on household income is cross referenced from gov data about parental employment, gov benefits
- Info on parental education gathered from gov data about parent's degrees
- Scores for students is their final exam score midterm score

# Grade + subject + scores + household



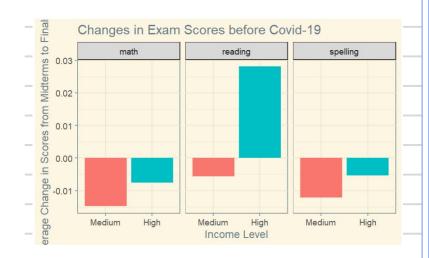


- Covid has less impairment with increasing grade
- Math decrease in 3rd grade

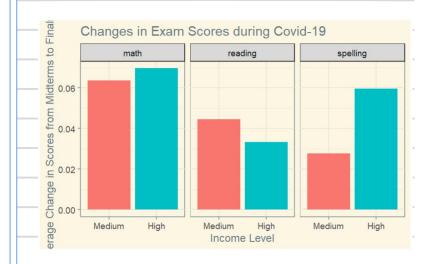


- Covid has less impact on all scores
- Math increase in 3rd grade

## Scores by Income Levels



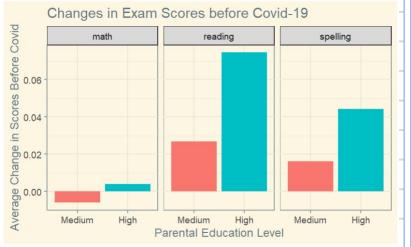
- Clear gap between the average score differences of medium and high income students
- Reading scores improved on average for high income students



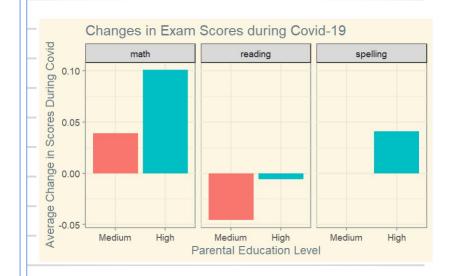
- All scores improved on average from midterm to finals
- Smaller gap between medium and high income students
- Gap flipped for reading scores

# Scores by Parental

#### Education



- Improvement in Math across the board
- Decrease in Reading
- Lower scores in spelling



- Either less improvement for medium education
- Or further drops in scores than higher educated families

## Conclusion

- Before Covid, there was consistently more improvement between midterm and final test scores in students with higher household income and higher parental education.
  - · READING SAW HIGHER ACHIEVEMENT GAPS THAN OTHER SUBJECTS
- Covid disrupted the regular improvement patterns.
- O THE INCOME ACHIEVEMENT GAP WIDENED IN SPELLING SCORES
  - THE PARENTAL EDUCATION ACHIEVEMENT GAP WIDENED IN MATH SCORES

## Limitations and future work - Marvin

- Does not include private/public schools (helps further ascertain wealth disparity)
- Missing a timescale- limited to 1-year spans for pre-Covid and post-Covid
- Large group of "missing" household income and "missing" parental education info
- Would be interesting to look at data from middle/high schoolers