

# TKI: Child Home Learning Environment and sibling influence on child development

Emily Trieu, 2023, and Princeton School of Public and International Affairs  
Adelaide, Australia  
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## Introduction

- Early child home learning is important in the development of a child
- Parents are the child's first teacher when it comes to exposure to cognitive and socio-emotional development
- Studies found that older siblings in middle childhood can teach new cognitive concepts and language skills to younger siblings

## Objective of the Study

The purpose of the internship is to analyze data from an already existing dataset to see if there is a correlation on child development and home learning environments, and eventually answering the question: How does having a sibling influence home learning environments and play a significant role in child development.

## Methods

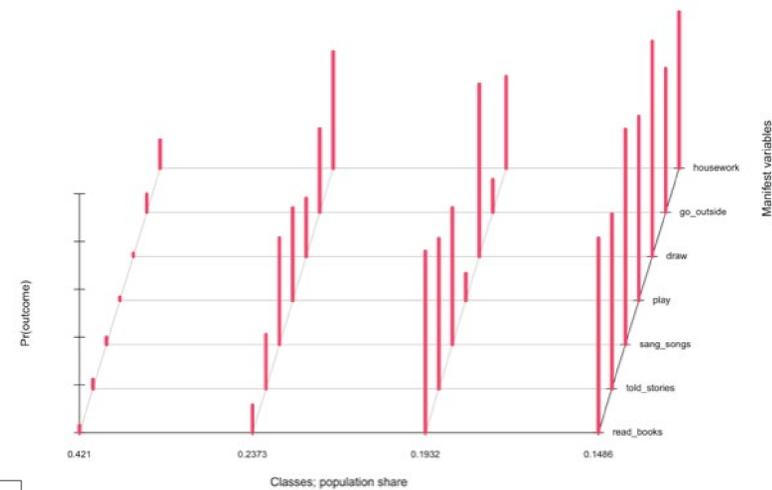
- Identify location of research: Laos
- Conduct preliminary research and code findings
- Using R-studio to extract data findings, transcribe findings into visualizations, and write-up

## Results

- There is a trend for high population of **Low Engagement** among all variables and vice versa for high engagement (low population)
- There are 4 latent classes:
  - High Engagement
  - Low Engagement
  - Socio-emotional Caregiving
  - Cognitive Caregiving



- Home learning environment compared with the number of children in a house hold
- "6" encompasses child count of 6-15 kids in one household



- **Home learning environments**
  - Read books
  - Told stories
  - Sing songs
  - Play
  - Draw, count, naming objects
  - Go outside
- **Greater Socio-emotional Caregiving**
  - Primary Caretaker(Parents vs Siblings)
- **Greater Cognitive Caregiving**
  - Caregiver literacy
  - Caregiver Age
  - Child Age
  - Child Count
  - **Neutral**
    - Gender

## Discussion

- Examine sibling outcomes to that of single child with high and low engaged parents.
- Consider analysis with siblings and parent engagement for the policy to be inclusive
  - Target families with limited resources and engagement to show them by example how to utilize existing resources to engage in home learning with their children

## Questions

- What are some confounding variables that can potentially change the results of the data

## Conclusion

- There is a trend for high population of **Low Engagement** among all variables and vice versa for high engagement (low population)

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