# How the Visual World of Picture Books Supports Word Learning: A Multi-Methodological Approach

Amanda Mankovich & Sumarga H. Suanda Department of Psychological Sciences, University of Connecticut

## INTRODUCTION

- Studies show picture book reading helps learning<sup>1</sup>
- We know a lot about how the linguistic world of picture books might help learning <sup>2, 3</sup>
- The goal of this study is to analyze aspects of the visual world of picture books that have been implicated in early word learning
- We analyze the visual world of picture books through two well-established methods of studying the role of the visuo-referential world of childdirected speech
  - I. Word-reference co-presence <sup>4, 5</sup>
  - II. The Human Simulation Paradigm <sup>6,7</sup>

### **Research Objectives:**

- To investigate the nature of visual referential transparency:
  - I. In picture books targeting younger and older children across two methods
  - II. For words varying in age-of-acquisition

# **STUDY 2: Picture Book-Adapted Human Simulation Paradigm (HSP)**

### Method

- 32 undergraduates
- Task: guess the noun best fitting the page
- Stimuli: 40 target nouns (e.g., bird, eye, boy)
- All text removed from pages
- Example stimuli pages for the target 'eye'





- For each noun, four stimuli were created:
  - 2 instances from books targeting 0-5-year-olds ("Young" Books)
  - 2 instances from books targeting 3-8-year-olds ("Old" Books)
- Metric: HSP accuracy (participant-level)







