



## Theoretical background



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- Some evidence of longitudinal effect of preschool process quality on later academic skills (e.g., Anders et al., 2013; Ebert et al., 2013; Sylva et al., 2004, 2008)
- In addition, it is well known that a number of child characteristics (e.g., age at school entry, general ability, gender) and family factors (e.g., parental educational level, socio-economic status) may have a significant influence on academic skill development (e.g., Cox, 2000; NICHD ECCRN, 2002; Pianta & Hamre, 2009)
- The quality of the home learning environment (HLE) may also influence children's development (e.g., Melhuish et al., 2008; Sénéchal & LeFevre, 2002; Snow & Van Hemel, 2008)
- Shared reading and teaching of reading

## High transparency of the Finnish language Nearly 30% of children learn to read before starting formal schooling at the age of 7 (Holopainen et al., 2000; Lerkkanen et al., 2004). The majority of Finnish-speaking children learn to decode during Grade 1 (Aunola et al., 2002; Seymour et al., 2003). However, despite the relatively easy process of learning to read, there are some students who are struggling with reading fluency and reading comprehension. Importance of reading skills for further schooling

## Research gap



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- Despite of the growing interest in the effectiveness of ECE, relatively little is known about the longitudinal effect of early childhood education on later academic skills outside the US
- Moreover, the role of the process quality (i.e., quality of classroom interactions) in later academic skills have been investigated to a lesser extent than structural features of preschool programs

## Research questions

- To what extent are kindergarten classroom interactions associated with subsequent reading skills (reading fluency, reading comprehension) at Grade 4 while controlling for child factors, family background, and the quality of the home learning environment (HLE)?
- To what extent are kindergarten classroom interactions related to the initial level and growth of reading fluency in primary school (Grades 1-4) while controlling for child factors, family background, and the quality of the home learning environment (HLE)?



Me	easures: Clas	sroom intera	ctions	
CLASS Pre-K instrument (Pianta, La Paro & Hamre, 2008).				
3 DOMAINS	EMOTIONAL SUPPORT	CLASSROOM ORGANIZATION	INSTRUCTIONAL SUPPORT	
	Positive Climate Negative Climate	Behavior Management	Concept Development	u
	Teacher Sensitivity	Productivity Instructional	Quality of Feedback	Educatic
	Regard for Student Perspectives	Learning Formats	Language Modeling	Teacher
Multiple indicators define each dimension. • 3 hrs at a time on two different Multiple behavioral markers define each indicator. days				
<ul> <li>2 independent observers</li> <li>Ratings from 1 (low)-7 (high)</li> </ul>				





















