



Abstract

We introduce the Bilingual and Educational Excellence Project – a using LENA to learn more about Spanish-speaking preschoolers' bilingual language development (N = 45). Samples of each child's naturally-occurring language use in the classroom and that which hear from teachers and peers are being gathered monthly (Septer May). They are transcribed and prepared for analysis using the Transcript Analysis System software (TAS; Gavin, 1987). Changes preschoolers' English and Spanish verbal proficiency will be exam including measures of amount, diversity, and complexity of langua use. We will also examine how linguistic experiences with teacher peers in English and Spanish are associated with changes in child verbal proficiency.

Introduction

- •Approximately 15% of students in U.S. schools come from primarily Spanish-speaking homes (NCES, 2010).
- Because in most U.S. schools instruction is conducted only in Eng Spanish-speaking students face the dual challenge of acquiring th expected academic skills, such as literacy and math, and learning English as a second language.
- •The difficulty of this challenge is evident in that Spanish-speaking children generally lag behind their English-speaking peers in acad performance, and their limited English proficiency is a critical unde factor (August et al., 2005; NCES, 2005).
- The goal of the Bilingual and Educational Excellence Project is to I more about Spanish-speaking children's English acquisition prior school entry, such as in preschool, to facilitate their transition into kindergarten.
- Changes in children's English and Spanish proficiency we will be examined throughout preschool, including measures of amount, diversity, and complexity of language use.
- Additionally, we will examine how individual differences in teach and classroom peers' English and Spanish use is associated children's own English and Spanish development.

Spanish-Speaking Preschoolers' English Acquisition: A Study of Bilingual Language Development Using LENA

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Methods

a study	
s they mber – es in nined,	• <i>N</i> = 45 children (41.7% boys; <i>M</i> age = 3.93 years) from day programs •78.4% Mexican American •82.4% of children who live in households earning less t
age ers and dren's	•Multiple language samples are gathered on a monthly
	May). •For each recording session, all participating children we beginning to the end of the preschool day, with each re hours.
	 Next, a random sample of 6 nonconsecutive 5-minute about two 5-minute segments per hour of recording using Transcriber software (Barras et al., 2000), and Analysis System software (TAS; Gavin, 1987; Gavin
glish,	Transcription Analyses S
ne J	 TAS uses database technologies to analyze transcr features found in the utterances of each speaker.
l demic erlying	 Built within the Access program of Microsoft's Office technologies for mining and reporting on large amor
learn to to	•The TAS software allows for the use of any linguistic lexical component of an utterance at several levels; syntactic structures and semantic organization. Give user, a set of data tables are generated that may be by users.
ners' with	For further information send email to: fran Istarge@colosta

ts

3 Head Start classrooms operating half-

than \$30,000 annually

^r basis throughout preschool (September –

vear LENA vests and DLPs from the ecording session lasting approximately 3

ute segments per child (30 minutes total;) are exported from LENA, transcribed nd analyzed with the Transcription in, et al.,1993; Gavin & Giles, 1996).

System Software

ripts and summarize the linguistic

e Suite, to exploit modern day ounts of data.

ic coding system for describing each for example, productive lexicons, en the entry of descriptive codes by the e summarized and reported interactively

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Verb contractions

'S	cont
'm	cont
're	cont
'sD	cont
'sH	cont
'dD	cont
'dH	cont
'dW	cont
n't	cont

Noun Contractions

'sU	con
'em	con
/ed2	-ed

Verb Inflections

/ed	regu
/ed2	-ed
/ing	pres
/3s	regu

Articles and Nouns: Gender and Number Match

FANs donde está [el libro]? CHNs en lla mesal. FANs es tiempo para guardar llos cuadernos.

Gender and Number Mismatch

CHNs yo quiero jugar con #la muñecas#. CXNs ahora me toca jugar con #los muñecas#.

Verbs

CHNs yo comer/como manzanas. CXNs si comer/comes manzanas vivir/vivirás /más/ tiempo. FANs chico, venir/ven acá, por favor!

Plurals and Possesives

CHNs yo querer/quiero dos manzana/s. FANs mira |el dibujo| de/z ella!

Transcription Codes

English Examples

ntracted copula is tracted copula am ntracted copula are tracted auxiliary does ntracted auxiliary has ntracted auxiliary did ntracted auxiliary had ntracted auxiliary would itracted negative *not*

He 's the one over there. I 'm over here. They 're thirsty. What 'sD she want? He 'sH gone home. Where 'dD he go? I 'dH gone for the day. He 'dW go if he could. He is n't come/ing.

ntraction of us ntraction of *them* past participle

Let 'sU eat! Watch 'em get on the bus. I had climb/ed2 to the top.

jular past tense past participle esent participle Jular third person singular

She stop/ed. I had climb/ed2 to the top. He 'sB go/ing home. She go/3s every Tuesday.

Spanish Examples