



# Introduction

-Research in the multilingual stuttering population is limited.

-A majority of the literature is restricted to case studies, and comparison of participants across studies is compromised by heterogeneous language profiles.

-The relationship between language and stuttering (Ntourou et al., 2010), and dominance-based theories of stuttering in bilinguals (Lim et al., 2008b) require greater specificity regarding language experiences among participants.

-Using Grosjean's (2004) guidelines and information gleaned from available language profiles questionnaires (see caption and references in green), an eight-factor framework was constructed to describe language abilities of multilingual participants who stutter.

Language Factor	<u>Definitio</u>
1) History ab	when and how language acquired
2) Function ab	current environmental dem use
3) Proficiency ab	current degree of skill with modality
4) Stability <sup>ab</sup>	whether one or both langu being acquired, or in so
5) Mode ab	whether interaction during to interlocutors or situations v situations
6) Degree of accent <sup>b</sup>	"rough index" of L2 experie
7) Language of covert speech <sup>b</sup>	language used during "ment speech"
8) Affective factors <sup>b</sup>	overall comfort and willing given language, particular language

Note. Factors extracted from Grosjean (2004) and the following language profile questionnaires: Dewaele (2010, pp. 224-230); Dunn & Fox Tree (2009); Gutiérrez-Clellen & Kreiter (2003); Li, Sepanski, & Zhao. (2006); Lim, Liow, Lincoln, Chan, & Onslow (2008b); Liow & Poon (1998); Marian, Blumenfeld & Kaushanskava (2007)· Muñoz Marguardt & Coneland (1999)· Paradis (1987 nn. 46-51)· Roberts & Shenker (2007)



Based on this eight-factor framework, the purpose of this study was twofold:

**PURPOSE I**: To determine <u>breadth of description</u> of multilingual participants in current stuttering literature.

- frequency of language factors reported across studies

- consistency of language factors reported within studies

**PURPOSE II:** To determine <u>depth of description</u> of multilingual participants in current stuttering literature.

- frequency of different descriptors reported for each factor within and across studies - consistency of descriptors reported for each factor within and across studies

# **Description of Multilingual Participants Who Stutter** Geoffrey A. Coalson, MS, CCC-SLP, Elizabeth D. Peña, PhD, CCC-SLP & Courtney T. Byrd, PhD, CCC-SLP The University of Texas at Austin

## <u>on</u>

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*Method:* Systematic review of multilingual participant descriptions in stuttering literature.

## Inclusionary criteria:

1)Participants described as persons with developmental stuttering 2)Participants had knowledge of more than one language

**Results:** 23 data-based, refereed articles included in review

Main Finding: Of eight language factors, limited and inconsistent language factors were reported within and across studies.

Frequency of factors: Three factors were reported with relatively higher frequency.

History: **Function: Proficiency:** Remaining factors:

61% (14 / 23 studies) 52% (12 / 23 studies) 78% (18 / 23 studies) 0-22% (0 to 5/23 studies)

Consistency factors: Three primary factors co-occurred in fewer than half of the qualifying studies.

**3** factors: 2 factors:

1 factor:

0 factors:

43% (10/23 studies) 22% (5/23 studies) 17% (4/23 studies) 17% (4/23 studies)

Main Finding: Of the three primary language factors, dissimilar and non-overlapping descriptors were reported within and across studies.

Frequency of descriptors:

**29 different descriptors** History: **13 different descriptors Function: Proficiency:** 13 different descriptors

### History

### # of studie

<u>Qualitative</u>	
Language spoken at home	8
Language of school	3
Formal education in L2	3
Language spoken by mother	2
Language spoken by father	2
Formal education in L1	2
Language spoken by grandparent	2
Quantitative	

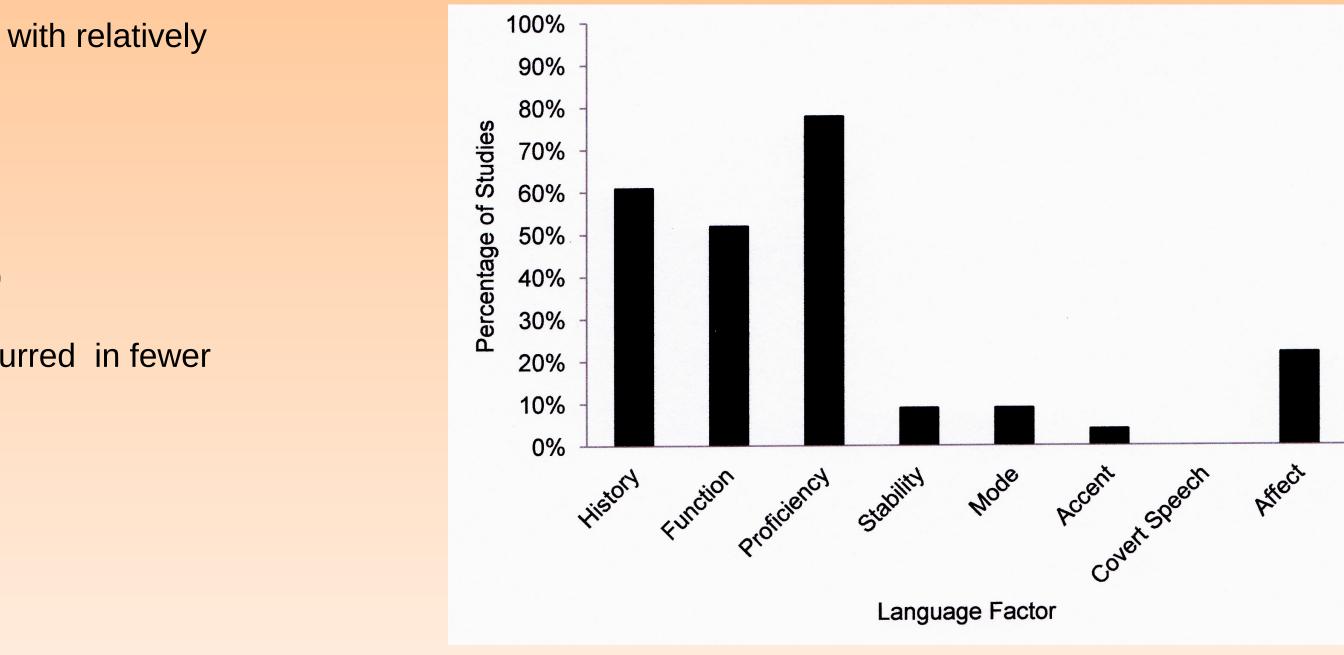
Quantitative Age of L2 exposure Order of acquisition

# Method

3) Provided original data 4) Peer-reviewed publication

## Results

## **PURPOSE I: BREADTH OF DESCRIPTION**



## **PURPOSE II: DEPTH OF DESCRIPTION**

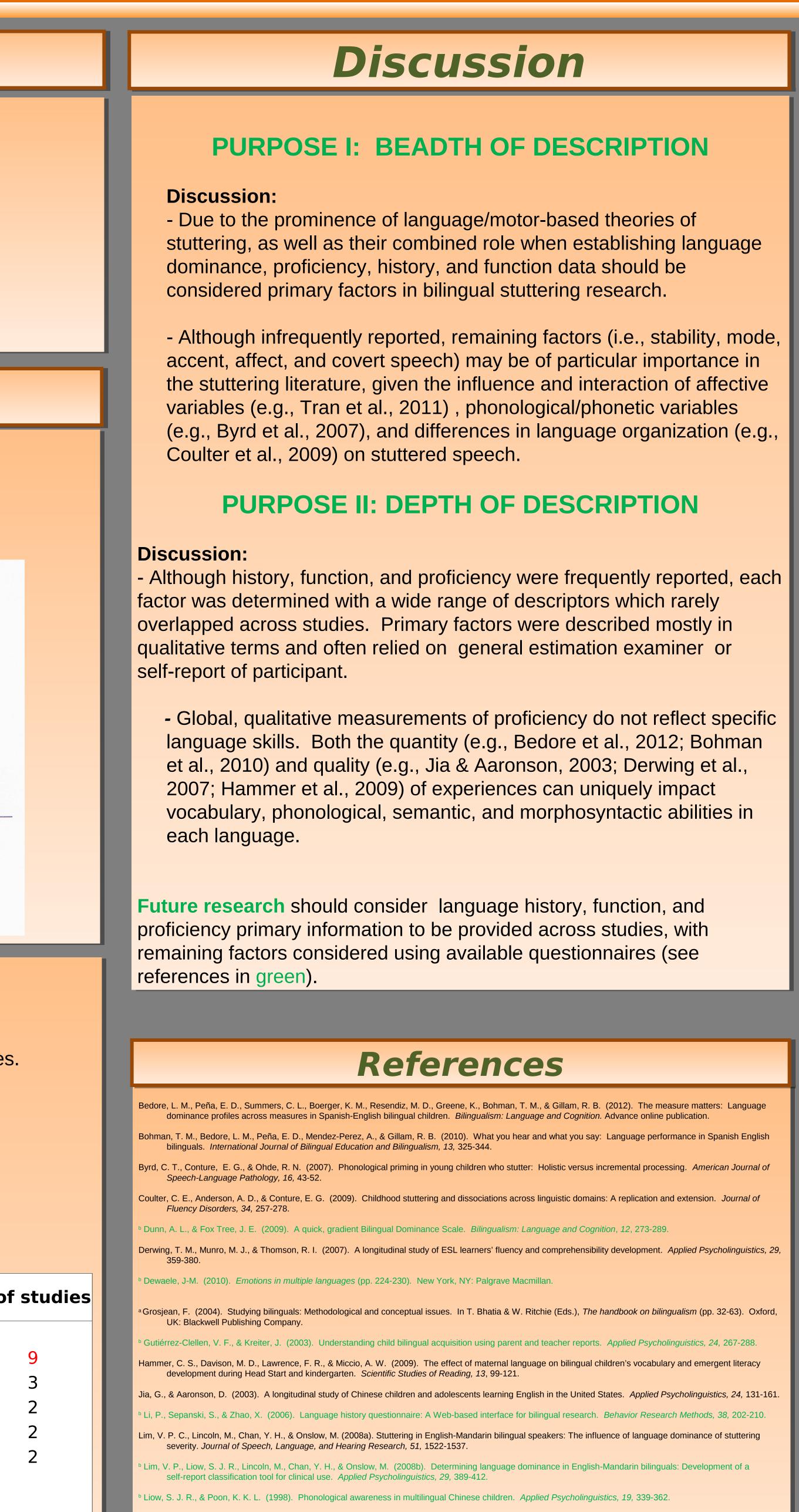
Consistency of descriptors:

9 were reported in >1 study (31%) History: 6 were reported in >1 study (46%) **Function: Proficiency:** 8 were reported in >1 study (62%)

es	Function	# of studies	Proficiency	# of
	<u>Qualitative</u>		<u>Qualitative</u>	
	General estimation by speaker	7	Judgment of speaker or examiner	
	Language spoken at school/work	6	Self-ranked speaking proficiency	
	Language spoken at social events	4	Self-ranked comprehension	
	Languages spoken at home	3	Self-ranked reading	
	Languages spoken with peers	2	Self-rank writing	
	Preferred language to read/write	2		
	<u>Quantitative</u>		<u>Quantitative</u>	
	N/A		Undefined composite score, L1	
			Grammar, L1/L2	
			Vocabulary, L1/L2	







rian, V., Blumenfeld, H. K., & Kaushanskaya, M. (2007). The Language Experience and Proficiency Questionnaire (LEAP-Q): Assessing language profiles in pilinguals and multilinguals. Journal of Speech, Language, and Hearing Research, 50, 940-967.

uñoz, M. L., Marguardt, T. P., & Copeland, G. (1999). A comparison of the codeswitching patterns of aphasic and neurologically normal bilingual speakers of English and Spanish. Brain and Language, 66, 249-274.

radis, M. (1987). The assessment of bilingual aphasia (pp. 46-51). Hillsdale, NJ: Lawrence Erlbaum Associates. oberts, P. M., & Shenker, R. C. (2007). Assessment and treatment of stuttering in bilingual speakers. In E. Conture & R. Curlee (Eds.), Stuttering and related

disorders of fluency (pp. 183-209). New York, NY: Thieme. , Y., Blumgart, E., & Craig, A. (2011). Subjective distress associated with chronic stuttering. Journal of Fluency Disorders, 36, 17-26.