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曾涛 著

词汇飞跃现象研究

——两名长沙儿童的早期词汇与语义发展

An Investigation of Word Spurt Phenomenon

——Early Lexical and Semantic Development of Two Changsha Children

湖南大学出版社

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内 容 简 介

通过描绘两名儿童在词汇飞跃时期表现出的系列语言发展特征,探究儿童早期词汇和语义的发展规律,同时,探索词汇飞跃背后的习得机制,对命名洞察力的现实性进行了深入考察,以期在一定程度上揭示词汇飞跃现象的本质。

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——Liangming Changsha ertong de Zaoqi Cihui yu Yuyi Fazhan

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2001年,我有幸参与了湖南大学认知科学研究所李行德教授和宁春岩教授领导下的“中国早期儿童语言发展(CELA)”研究项目,由此踏入了儿童语言习得研究领域。2007年,我考入广东外语外贸大学语言学及应用语言学研究中心,师从李行德教授和王初明教授,攻读博士学位,由此开始了对汉语儿童早期词汇与语义发展的系统研究。2010年,我顺利地完成了博士论文的写作和答辩,本书就是在博士论文的基础上整理完善和发展的。

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作 者

2011 年 12 月

List of Abbreviations

CB	Context Bound
CDI	Communicative Development Inventory
CF	Context Free
CT	Contrast Theory
D (S)	Determinacy (Scope)
E (F)	Expressive (Function)
FCT	Functional Core Theory
FLA	First Language Acquisition
FMT	Fast Mapping Theory
IMIT	Imitation
I (S)	Indeterminacy (Scope)
IT	Information Theory
L1	First Language
LS	Language Score
MLU	Mean Length of Utterance
N3C	Novel Name-Nameless Category
NP	Noun Phrase
NV	Non-verbal
P (F)	Performative (Function)
R (F)	Referential (Function)
SFP	Sentence Final Particle
SFT	Semantic Feature Theory
SPON	Spontaneous
SRN	Simple Recurrent Network
UG	Universal Grammar
V	Verbal
Y/M/D	Year / Month / Day

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Chapter 1 Introduction: Word Spurt in Early Lexical and Semantic Development

Children's abilities to learn new words are full of miracles, and the study of these abilities bears on the most central questions in cognitive science. What kind of vocabulary knowledge does the child have at very early stages of language acquisition? What is the nature of human learning? These questions do not have simple answers, but involve different cognitive capacities working together in an intricate fashion (P. Bloom, 2000). The present study investigates children's early vocabulary learning systematically, both for its own sake and for its potential contributions to such fields as language universality and language assessment. It addresses a number of theoretical and methodological issues in early lexical and semantic development, specifically, the word spurt, naming insight and semantic characteristics of early lexicon, based on a longitudinal study of two Mandarin-speaking children. This chapter introduces the word spurt phenomenon and its cognitive significance, the scope of the present research, the theoretical and methodological considerations, key research questions and the outline of the remaining chapters.

1.1 Word Spurt and Its Cognitive Significance

An intriguing phenomenon that many researchers have reported in literature is word spurt^①. It is characterized by a sudden rise of vocabulary growth toward the end of the one-word stage, typically around one and a half years old, when the child has a vocabulary of around 50 words. The existence

① "Word spurt", sometimes is called "lexical spurt" or "lexical explosion" by different researchers.

of a vocabulary spurt in children's early lexical development has been claimed by many researchers on the basis of parental reports (Goldfield and Reznik, 1990; Fenson, Dale, Reznick, Bates, Thal, and Pethick, 1994; Caselli, Casadio, and Bates, 2001) as well as longitudinal case studies based on varying number of observation points (Bloom, 1973; Nelson, 1973; McShane, 1980; Dromi, 1987; Bates, Bretherton, and Snyder, 1988; L. Bloom, 1993).

This lexical spurt carries special cognitive significance. Chomsky (2002) claims that lexical explosion (namely, the ability to handle a large number of lexical items) is a cognitive capacity that is part of the biological endowment of species and is thought to be unique to humans. Other researchers propose that word spurt should be linked to the appearance of the naming insight essential for grasping denotation (Dore, 1976; Kamhi, 1986; McShane, 1980) and the entry into the two-word stage (Goldfield and Reznick, 1990; Fenson et al., 1994; Dromi, 1987/1996). According to Goldfield and Reznick (1996), vocabulary spurt marks a qualitative change in the nature of language. With some critical mass of words in the lexicon, the child can generalize the word-referent relationship to include all manner of entities, qualities, and events, linking words and word meanings into a semantic system.

While word spurt has been documented in a number of longitudinal and cross-sectional studies, and its cognitive significance has also been examined, the reality of word spurt and its links to cognitive and early language development has been critically reassessed in recent years. On methodological grounds, scholars have disputed whether one can establish a lexical spurt quantitatively in terms of the rate of acquisition of new words (Bloom, 2000; Ganger and Brent, 2004). On cognitive grounds, researchers have challenged the reality of the naming insight, arguing for a gradual transition from context-bound prelexical forms to fully denotational words (Carter, 1979; Bates, Camaioni, and Volterra, 1979; Nelson and Lucariello, 1985; Vihman and McCune, 1994). Connecting the word spurt with the onset of syntax can also be questioned if one sees syntax as available to the child in the one-word stage (McNeill, 1970) or that predicate-argument structures are already present in gesture-word combinations (Özçalışkan and Goldin-Meadow, 2005).

In Mandarin Chinese, few studies have been conducted on children's early lexical acquisition, except for one indirect research carried out by Tardif etc.

(2008). They reported on the construction and norming of parent report instruments for typically-developing Mandarin- and Cantonese-speaking children between eight and 30 months of age, based on MacArthur Communicative Development Inventories. In addition, their manual provides the information that users need to apply and interpret these procedures. However, the work by Tardif etc. (2008) does not give enough information to explore the nature of lexical spurt, although word spurt is counted as an important stage in children's language development by many studies.

The present research intends to describe a series of characteristics of early lexical and semantic development around the time of word spurt in an effort to explore the mechanism underlying word spurt, especially the reality of the naming insight essential for grasping denotation. Additionally, this study sets out to clarify some methodological issues concerning the study of early vocabulary development, in particular, those relevant to the study of lexical acquisition of Mandarin-speaking children.

1.2 Scope of the Present Study

How can a person interpret word spurt phenomenon? What is the mechanism behind the rapid increase of children's early vocabulary? To answer these questions, the present study investigates the nature of word spurt in both early lexical and early semantic development.

With regard to word spurt in early lexical development, the present study centralizes on its link to the onset of the two-word stage. Word spurt is considered to be related to early syntactic development or to be a precursor to syntactic development. Rapid increase in naming is quickly followed by the emergence of two-word utterances, and the development of names for objects usually precedes the development of the structured speech (Leopold, 1939; Halliday, 1975; Nelson, 1973; McShane, 1980; Bates et al., 1988). Many studies have confirmed a potential link between word spurt in the second year and the subsequent appearance of multi-word speech. Word spurt is deemed to be a milestone in children's early lexical development, contributing to their later grammatical development.

With respect to word spurt in early semantic development, the present research focuses on its relation to children's categorization capabilities. In early lexical development, children's categorization capabilities help them acquire and expand their vocabulary. In this sense, a study of these abilities can provide a good way for understanding the relationship between lexical acquisition and conceptual development. Categorization abilities can decrease the complexity of human perception, and category systems can provide maximum information with the least cognitive efforts (Rosch, 1978). It is through categorization that concepts are gradually formed and children learn to group things for the purpose of naming (Jackendoff, 1983). Through categorization, children know not only the individual objects, but also the world they live in. Two phenomena are observed around the spurt time, which represent children's categorization capabilities in early semantic development:

The word *o* 鹅 “goose” was first used by the child LSY at 1;4;26 (Y/M/D) while he was answering adults' identification questions about a goose toy. At 1;6, LSY extended the word to the same referent “duck” twice when responding to an adult's questions about a duck drawing.

The word *bi* 笔 “pen” was first uttered by the child AJR at 1;6;24 (Y/M/D), when she looked at a pen or pencil or expressed a desire for a pen or pencil. At 1;8;7, she also called a mini-recorder she saw as *bi* 笔. At 1;10;23, this word was used when AJR picked up a chalk in reply to adults' request in terms of addressing.^①

In the above examples, the first phenomenon is the use of overextended words. Both LSY and AJR used a word for a broader range of referents than was conventional in adult usage. For example, LSY used *o* “goose” to refer to “duck”, and AJR pronounced *bi* “pen” for a mini-recorder. The second is the selection of basic-level terms. Both children selected a basic-level word (Rosch

① These two examples are drawn from the paper presented by Zeng and Lee (2009) at the 17th Annual Meeting of International Association of Chinese Linguistics (IACL-17), Paris, France, July 2-4.

et al., 1976; Lakoff, 1987) that represented the basis of their conceptualization. These basic-level words maximized the number of attributes shared by members of one category and minimized the number of attributes shared with members of other categories (Lakoff, 1987). For instance, AJR uttered *bi* 笔 instead of *gangbi* 钢笔 “pen”, LSY produced *o* 鹅 “goose” instead of *dongwu* 动物 “animal”.

Whether early words are overextended to a wider referential scope than conventional and whether early vocabulary is composed of basic level terms^① are two issues important for evaluating children’s categorization capabilities and for understanding the link between lexical and semantic acquisition. A lot of research has provided evidence for the overextension of children’s early words (Preyer, 1889; Lewis, 1951; Leopold, 1939; Rescorla, 1980; Bowerman, 1978; Barrett, 1986; Clark, 1983, 1993; Dromi, 1996). Scholars argue that overextension tends to occur in high-frequency and early acquired words, covering such domains as vehicle, clothing, numbers and letters (Clark, 1993; Rescorla, 1980; Benedict, 1979). Overextension is an important issue in the study of early lexical and semantic development. The study of overextension can offer evidence to reflect children’s early formation of rules, which bears special theoretical significance. Moreover, it can provide crucial evidence for deciding on one of the major theories in semantic development: the Semantic Feature Theory (Clark, 1973), which hypothesizes that children begin with a subset of the semantic features associated with a word, predicting overextension. Additionally, the present study furnishes systematic data on children’s use of overextended words in Mandarin Chinese, which has hitherto been unavailable.

The present study examines the extent to which early Mandarin vocabulary is composed of basic-level terms. Basic-level words occupy the majority of children’s early words and reflect categories of high psycholinguistic accessibility (Rosch, 1976), although whether the predominance of basic-level words is affected by input is still queried (Mervis and Mervis, 1982; Clark, 1993). The study of basic-level

① “Basic-level terms” and “basic-level words” are used interchangeably in this paper.

words is crucial for understanding the link between word acquisition and conceptual development.^① So far, no longitudinal research has been conducted on Mandarin-speaking children's early basic-level words. Only one study (Jiang, 2000) has reported data on basic-level vocabulary of Mandarin-speaking children. However, in Jiang's study, how basic-level vocabulary evolved before two years of age was not studied. Furthermore, adult criteria were adopted to determine the basic-level vocabulary of children, based on productivity and high frequency of corpus data.

Previous research reveals that few studies have charted the characteristics of early lexical and semantic development around the time of word spurt, and that some methodological considerations have cast doubt on the claims of early vocabulary studies. Furthermore, few studies have explored the development of children's naming capabilities or the reality of naming insight.

The present research probes into children's early language development by investigating the nature of word spurt at a close range through longitudinal audio-visual recordings of two Changsha infants from around nine months old to around two years old. Five aspects of children's cognitive development are surveyed: firstly, the rate of lexical development, especially the reality of word spurt; secondly, the relative chronology of word spurt and the onset of two-word combinations; thirdly, the proportion and characteristics of overextended words in early language production; fourthly, the distribution of basic-level words as well as the development of noun hierarchies; finally, the mechanism underlying the use of early words, especially the reality of naming insight.

1.3 Theoretical and Methodological Considerations

One of the major goals of generative grammar is to account for the logical problem of language acquisition, namely, how humans can acquire a complex internalized language (I-language) in such a short time on the basis of impoverished input. Rich innate domain-specific knowledge in the form of

① The present study only considers those conceptual structures that can be represented by language, not those that are independent of language.

universal grammar must be postulated to explain the basic facts of language learning (Chomsky, 1965; Wexler and Culicover, 1980). Chomsky (2002) expresses his idea of studying language as a natural object, an ability that is part of the biological gift of our species, physically represented in the human brain. In his critique of Mark Hauser's view on evolution of communication, he claims that the capability to handle a large number of words is sometimes called lexical explosion and is considered to be unique to human beings.

Word learning is an intellectual feat accomplished by two-year-olds. It is obvious that word-world pairing is insufficient to account for word learning, for children know too much, from too little information, about the world. For instance, in verb learning, not every verb uttered by adults goes with its corresponding action. "Conversation, even from mothers to babies is not a running commentary on the objects, events, properties, and relations presently on exhibit in the world. No mother carefully utters 'open' every time she opens the door; worse, 'open' is frequently uttered—even systematically so—when the door is shut." (Gleitman and Fisher, 2005: 125)

This study probes into the nature of word spurt in early lexical and semantic development in light of the logical problem of language acquisition, with the following theoretical and methodological considerations.

1.3.1 Theoretical Considerations

The theoretical considerations of the present study are three-fold. Firstly, the present study tackles the issue of naming insight in the first language (L1) acquisition of early words to see if the development is sudden or gradual. The study of word spurt phenomenon is related to two perspectives on the transition from word-like forms to true words. One view holds that the mastery of naming is a continuous process, whereas the other view sees the developing of such ability as the grasping of a sudden insight. The former has challenged the reality of naming insight, holding that children have a gradual increase in the rate of word learning (Bates and Goodman, 1997; P. Bloom, 2000) and the grasp of denotation involves a slow and gradual transition from pre-lexical forms to fully referential words (Bates, Camaioni and Volterra, 1979; Nelson and Lucariello, 1985; Vihman and McCune, 1994; Tomasello,