

2013 中央研究院語言學研究所  
重要研究成果

研究人員（中）： 李佳穎

研究人員（英）： LEE, CHIA-YING

研究成果名稱（英）： The development of mismatch responses to Mandarin lexical tones in early infancy

研究成果名稱（中）： 中文聲調的失匹配反應在嬰兒時期之發展

簡要記述（英）：

This study examined how maturation and the size of deviance affect the development of mismatch responses to Mandarin lexical tones. A multi-deviant oddball paradigm with a low dipping tone (T3) as standard (80%), a high rising (T2) and a high level (T1) as deviants (10% for each) was carried out in adults, newborns and 6-month-olds. As T2 is more similar to T3 in pitch contour than T1 is, the T2/T3 pair is considered as the small deviant and the T1/T3 pair is considered as the large deviant. In adults, both deviants elicited typical mismatch negativity (MMN) while the T1/T3 pair elicited larger and earlier MMN than the T2/T3 pair did. In infants, the T1/T3 pair elicited a positive mismatch response (P-MMR) at birth but an adult-like MMN at 6 months of age. For the T2/T3 pair, no significant MMR was seen in newborns, whereas a P-MMR was found when infants are 6 months old. The results suggest that the developmental trajectories of MMRs are dependent on the neural maturation and the discriminability of tonal changes.

簡要記述（中）：

本研究探討嬰幼兒對中文聲調變化引發的失匹配反應，如何受到生理成熟與聲調差異的影響。研究者運用多重特異刺激典範，反覆呈現（80%）三聲作為標準音，偶而呈現一聲或二聲為差異音（各10%），收集成年人與受試嬰兒出生後幾天和六個月大時聽辨大差異（一聲/三聲變化）與小差異（二聲/三聲變化）的腦波。成年人的資料顯示，兩種差異皆激發典型的失匹配負波，其中以大差異的反應發生時間較早，負波振幅也較強。嬰兒資料則顯示，新生兒只在聽辨大差異產生正向的失匹配反應。但在六個月大時，嬰兒對於大差異可出現類似成人的失匹配負波，然而聽辨小差異則引發正向的失匹配反應。研究顯示中文聲調的失匹配反應會隨著嬰兒的成長有由正轉負的轉換，而此轉換發生的時間點，也受到聽辨刺激的差異程度所影響。

主要相關著作：

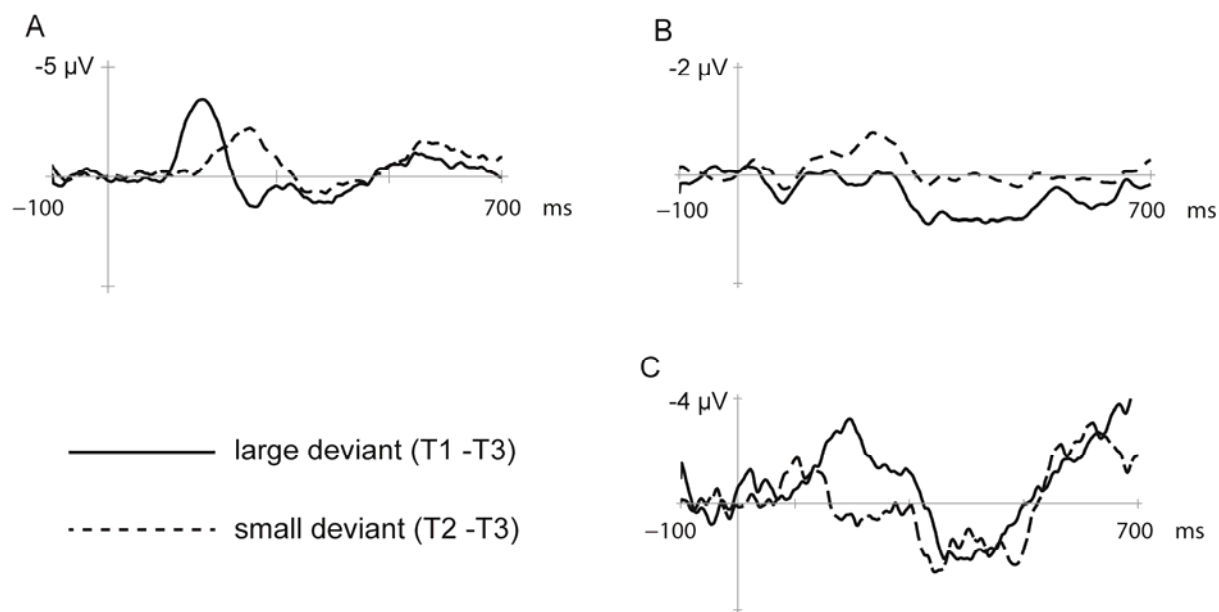
Cheng, Y.-Y., Wu, H.-C., Tzeng, Y.-L., Yang, M.-D., Zhao, L.-L., & Lee, C.-Y. 2013. The development of mismatch responses to Mandarin lexical tones in early infancy. *Developmental Neuropsychology* 38(5):281-300. (SCI, SSCI)

附圖：

（中）將兩個差異音分別減去標準音，分別計算出聽辨大差異（一聲/三聲，實線）與

小差異(二聲/三聲, 虛線)引發的失匹配負波。各年齡組在左前側電極 F3 表現分別列於：  
(A) 成年人, (B) 新生兒, (C) 六個月大嬰兒。

(英) The mismatch responses derived by subtracting ERPs to the standard T3 from deviant T1 (solid line) and T2 (dotted line) in (A) adults, (B) newborns and (C) 6-month-olds on the frontal-left electrode F3.



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重要研究成果

研究人員（中）：張永利

研究人員（英）：Henry Y. Chang

研究成果名稱（中）：及物輕動詞為分段主要語：鄒語、台灣華語及閩南語的例證

研究成果名稱（英）：Transitive Light Verb as Phase Head: Evidence from Tsou, Taiwan Mandarin, and Taiwan Southern Min

簡要記述（中）：

本文採Chomsky的分段理論，將台灣南島語言鄒語的及物後綴 $-a$ 與台灣華語的及物‘給’、台灣閩南語及物 $ka^7$ 皆分析為輕動詞分段主要語，具有邊緣屬性，會吸引直接賓語移入其外指示語邊緣位置，並可從該邊緣位置遞次逐級往上攀升，與其基底痕跡形成成長距離的依存關係。此一分段分析除了可以說明直接賓語的強制移出限制及其主題特性之外，也可以解釋輕動詞之層層堆疊現象。

簡要記述（英）：

This paper analyzes as a transitive light verb and a phase head the Tsou suffix  $-a$ , the Mandarin preverbal particle  $gei_{TR}$ , and Taiwan Southern Min preverbal particle  $ka_{TR}$ . As a phase head,  $-a$ ,  $gei_{TR}$ , and  $ka_{TR}$  bear an edge feature and attracts the direct object within its c-commanding domain to its outer specifier, from where the shifted direct object can move further up in the sentence. This phase-based account explains not only the obligatory movement of the direct object but also the multiple occurrences of transitive markers within a sentence.

主要相關著作：

張永利. 2013. 及物輕動詞為分段主要語：鄒語、台灣華語及閩南語的例證. 台灣語文研究 8.1: 93-114.

2013 中央研究院語言學研究所  
重要研究成果

研究人員（中）： 吳瑞文

研究人員（英）： Wu, Rui-wen

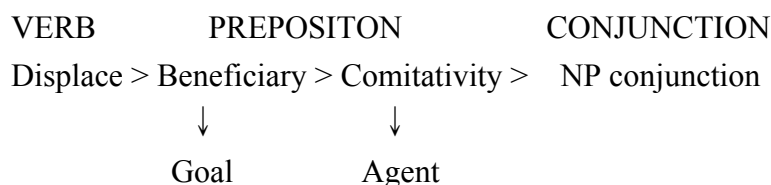
研究成果名稱（英）： On the Grammatical Functions and Grammaticalization of t<sup>h</sup>e5 in San-Ming Dialect

研究成果名稱（中）： 論三明方言 t<sup>h</sup>e5 的語法功能及其語法化

簡要記述（英）：

San-Ming City locates in central Fu-Jian Province, and the local dialect is a kind of Min dialect, namely Central Min dialect. Due to locating the transitional area of Min and Hakka dialects, San-Ming dialects has rich language phenomena about phonology, lexical and grammar. This paper describes an important function element ‘t<sup>h</sup>e5’ in San-Ming dialect, and investigates the grammaticalization progress of ‘t<sup>h</sup>e5’. In the linear structure [ NP1-PREP-NP2-VP ] of San-Ming dialects, the element ‘t<sup>h</sup>e5’ is employed in preposition and introduces different semantic NPs included: Beneficiary, Goal, Comitativity, and Agent. Furthermore, ‘t<sup>h</sup>e5’ is also employed in NP conjunction.

In this paper, according to the phonological correspondence, I would like indicate that the etymon of ‘t<sup>h</sup>e5’ is ‘替’. On the basis of the etymon, I indicate that ‘t<sup>h</sup>e5’ has undergone the grammaticalization pathway as follows:



This paper also deals with a related and interesting issue, which is the raise of the plural suffix ‘tse0’. I suggest that the raise of the plural suffix ‘tse0’ in San-Ming is due to the grammaticalization of ‘t<sup>h</sup>e5’.

簡要記述（中）：

本文根據我們前往閩中三明市調查所得的材料，描寫三明方言中一個重要而常用的虛詞成分 [t<sup>h</sup>e5]，並說明 [t<sup>h</sup>e5] 的語法功能、來源及其語法化問題。根據我們的田野調查，在三明方言 [NP1-PREP-NP2-VP] 這類結構中用為 [t<sup>h</sup>e5] 一個介詞，至少有以下幾種語法功能：引介標的者、引介受益者、引介共同行為者、引介施事者(亦即被動標記)與並列連詞。本文先從描述(descriptive)的角度全面地歸納三明方言 [t<sup>h</sup>e5] 的語法功能。其次，根據音韻規則對應，我們認為三明方言 [t<sup>h</sup>e5] 的語源(etymon)為蟹攝四等開口的「替」。相較於漢語語法史的表現，三明方言中「替」 [t<sup>h</sup>e5] 最為特殊的表現在於從協同介詞發展為施事介詞。另一方面，三明方言的「替」 [t<sup>h</sup>e5] 也從引介共同行為者的介詞進一步虛化為並列連詞。本文同時也說明，當三明方言中的「替」 [t<sup>h</sup>e5] 由介詞虛化為連詞之後，連帶造成的效應，那就是並列名詞組複數標記 [tse0] 的增生。

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Short- Term Memory: Establishing an Integrated Cognitive Neuroscience Laboratory in Taiwan”, paper presented at 黃林秀蓮訪問學人計畫, 香港中文大學崇基學院: 香港中文大學崇基學院, 2013-02-18 ~ 2013-02-27.

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