

..., tt t t t t M C , tt t 
t t t t t t - t 1 t - t 2(..., bol = "bo2 t ").

Jt M Q t .(2006), x t t t x t t

.D t x . , t t t t t t t t .

t t 1 t 2.I t - t .t t t t t t ...

t t 1 t t . , t t t t t t t ...

tt t ... t ... t ... t ... t ... t ...

It t t ... t ... t ... t ... t ... t ...

t t t ... t ... t ... t ... t ... t ...

t t t ... t ... t ... t ... t ... t ...

t t t ... t ... t ... t ... t ... t ...

t t t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ... t ... t ...

t ... t ... t ... t ... t ... t ... t ... t ... t ... t ... t ...

t ... t .. 

L., & C.,

# 2. Me.h d

2.1. Participants

```
100% tone1, 0%
                 tone2
90% tone1, 10%
                 tone2
80% tone1, 20%
                 tone2
70% tone1, 30%
                 tone2
60% tone1, 40%
                 tone2
50% tone1, 50%
                 tone2
40%
    tone1, 60%
                 tone2
30%
    tone1, 70%
                 tone2
20% tone1, 80%
                 tone2
    tone1, 90%
10%
                tone2
     tone1, 100% tone2
0%
```

```
t t t t ttt, tt ...''), t t t ...''). E t t t
```

# 2.3. Apparatus and procedure

T 1

N. t	t t	t x	. <b>t</b>	t t	t . ,	t
T V.	G . 1 (T 1 B ) T t P t		G . 2(T 2B) T t P t			
T t C t		N	Α		N	Α
T 1		25	20	20	25	
T 2	20	25			25	20
T 3	30	25		30	25	
T 4	30	25		30	25	
Tt	80	100	20	80	100	20

t 1 t 2 t 11**0** t t . I t 3- t 4t t ţ t t t t 60 . T 200 t x \$ ŧ t't t t, t t t t t t t t t t 10 (zata1 xie3/shuo1 ... zhe4ge4ci2" za t O t ţ t t t t tt bobo10.2 t t t t t . T t . T t t t t t 5 t t t t . D. t t t 40 (20 20 ) t t t ( 3, 5, 6, 7, t t t 0 t1t 2 t ...; A t

# 2.4. Design and analysis

t t t t t tt 2 . T t t - . t Ex . t. t t 1 t 2 Fttt t t - . t : Ex 2 T Ct \* ( **X** . T t ( ) t ... t t . T ( ) 2. **W** x t t t t t x t t t t t ttt

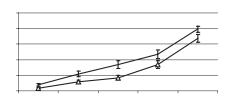
### 3. Re

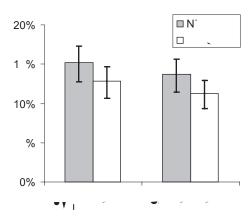
#### 3.1. Exposure

# 3.2. *Test*

			Ex. C t				
			T 1 C T 2	T	2 C	Т	1
%P	t	RT	Α		A		
T	ı	t	97.5%		95.1	%	
			389		405		
T	2	t	98.4%		97.5	%	
			427		404		

• ii Ci'i-E, a T; Sa'; Ci'i-E, a T;





t ) ttt  $C \quad t \quad \times O \ / N$ t ttt t t (15.0% t t). 10.8% t t ). T t (11.8%) (14.4%, t t t t p < .05). T t T Ct tt t Ex C (p > .2). t

#### 4. D. c . . 4

**X** . T , t x t t t, t t **t** t tt, t t t t t t t t A
2006; K & S . , 2005, 2006;
2006; N t ., 2003), t t . **X** (E & M Q. , 2007; M Q L & V . . Ex . t - t t t 🗶 t t t t t.Et t t t t t t t t . T t t <u>.</u>t tt. t t # . T ŧ ttt ,, S. & K , t 2009) t t \$ ŧ t O. t t t . WA . L ŧ ŧ . T t t t . t t . T t t t X t t t t

t . A t ţ t tttt t ŧΙ ttt ŧ ŧ , 1996)! (G t t , t t . I t ŧ . S X . T ŧ ŧ t X В . S. t t t t t t t t t t ŧ tt

Act edg & ..

O t S t R (NWWO-VIDI 016084338) t E

R C (ERC-S t I t R G t 206198) t

#### Refe e ce

- , H. R., D , D. J., & Bt , D. M. (2008). Mx t t t . Journal of Memory and Language, 59, 390 412. B , P. (2001). P t , t t t . Glot International, 5, 341 345. B , D. H. (1997). T t x . Spatial Vision, 10, 433 436. C , ., & G , C. (2008). E t t t M C . C . Journal of Phonetics, 36, 724 746. , C. M., R , L. J., & Ptt , D. J. (2008). P t t . Perception & Psychophysics, 70, 403 411. Ct , A., & **V** , A. (2007). Lt x t t--x L2. I J. T . & **WA** J. B (E .), Proceedings of the 16th International Congress of Phonetic Sciences ( . 43 48).  $D_{\alpha} \qquad \quad , \, G \qquad \quad : P \quad t \quad .$ , M. H., J , I. S., H -A , A., T , K., & M Gtt , C. (2005). L x t t : E t Journal of Experimental Psychology: General, 134, 222 241. E , F., & M Q. , J. M. (2005). T t . Perception &
- E , F., & M Q. , J. M. (2006). P t : Society of America, 119, 1950–1953.
- F , A. L., C , V., WA , N. K. U., L , WAH. ., & C , P. C. . (2006). Bt t t t t t t t . Journal of the Acoustical Society of America, 119, 1712–1726.

- G , WA F. (1980). P t t t t t . Journal of Experimental Psychology: Human Perception and Performance, 6, 110 125.
- G , S. D. (1996). What : E t t t t t Journal of Experimental Psychology: Learning, Memory, and Cognition, 22, 1166–1183.
- G , S. D. (1998). E ? A t x . Psychological Review, 105, 251 279.
- J , T. F. (2008). O t : A ANOVA t( t t ) t t x . Journal of Memory and Language, 59, 434–446.
- representation and process ( . 169 226). C , MA: MIT P .
- K , T., & S , A. G. (2005). P t : It t ? Cognitive Psychology, 51, 141 178.

t t t t . Journal of the Acoustical Society of America, 95, 2240 2253.
, A. C. L. (2007). U t : T t C t . Phonology, 24, 187 214.

SPP LgIf a.L

At S. t I t t t

t t WA O L:

APPed AS1: Ex t t

P t: WA -B t

t t t t t t t

t t AR (t t

t t t