

No word-specific mismatch negativity effect in Mandarin speakers

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equitable

grenkelap

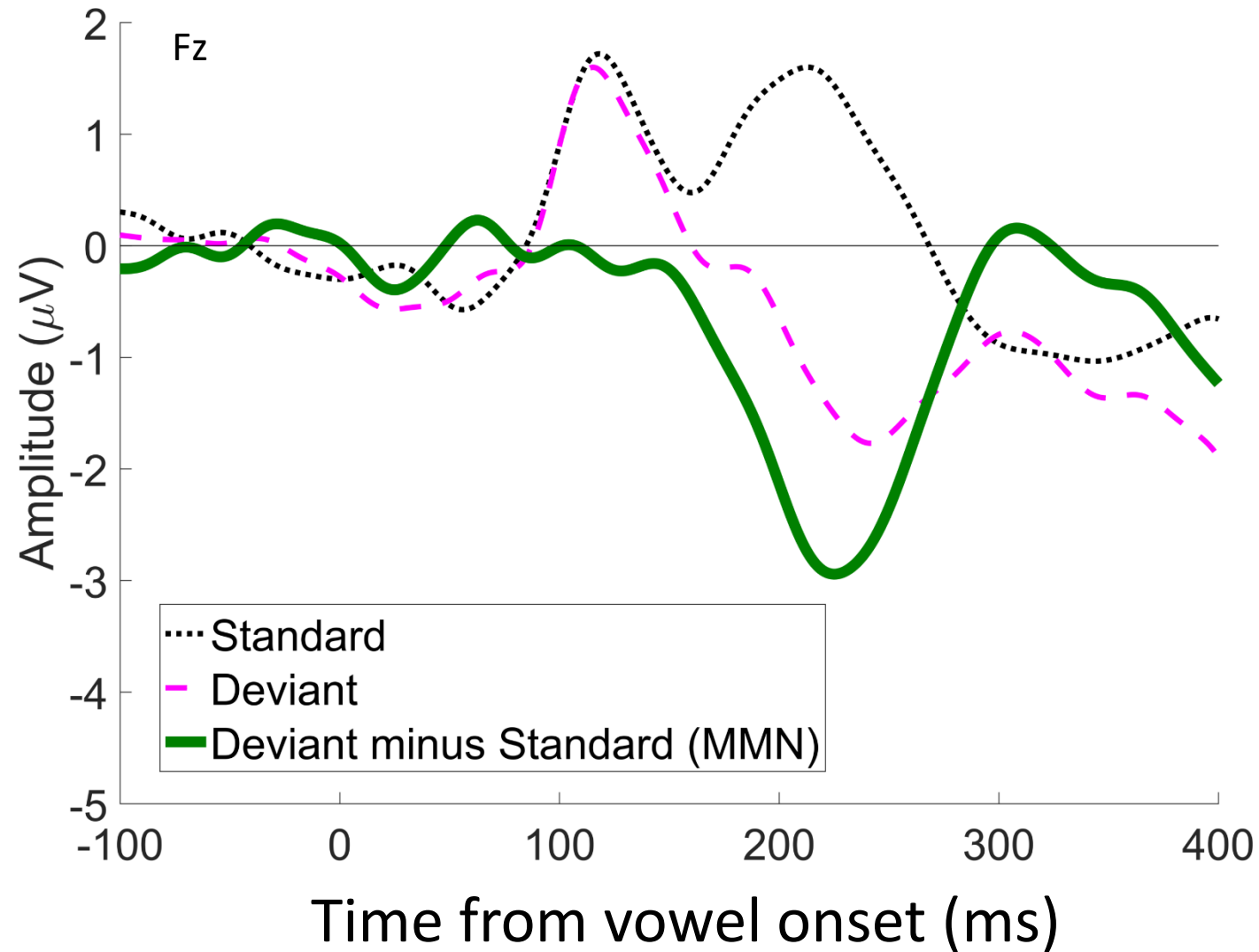
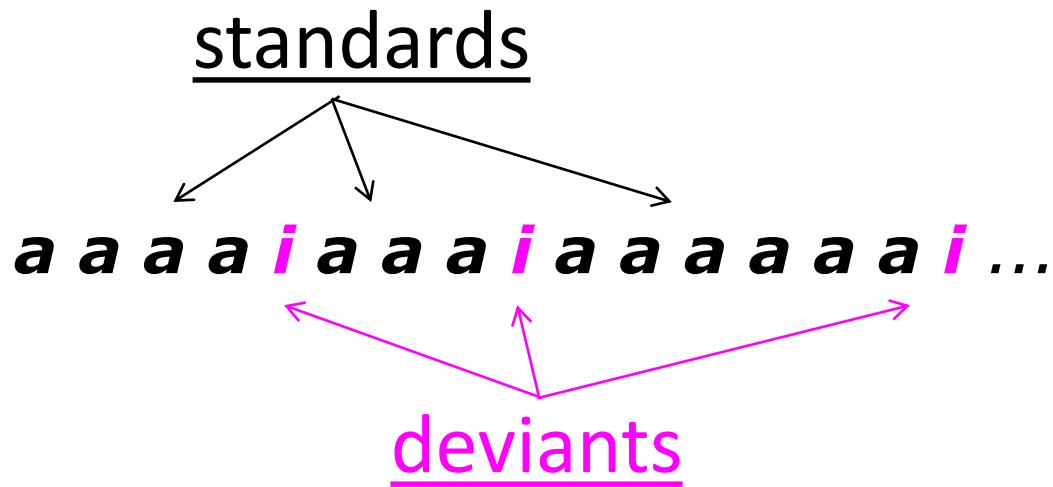


Figure adapted from Schluter, Politzer-Ahles, & Almeida (2016)

*type type type **tight** ...*

*pipe pipe pipe **pite** ...*

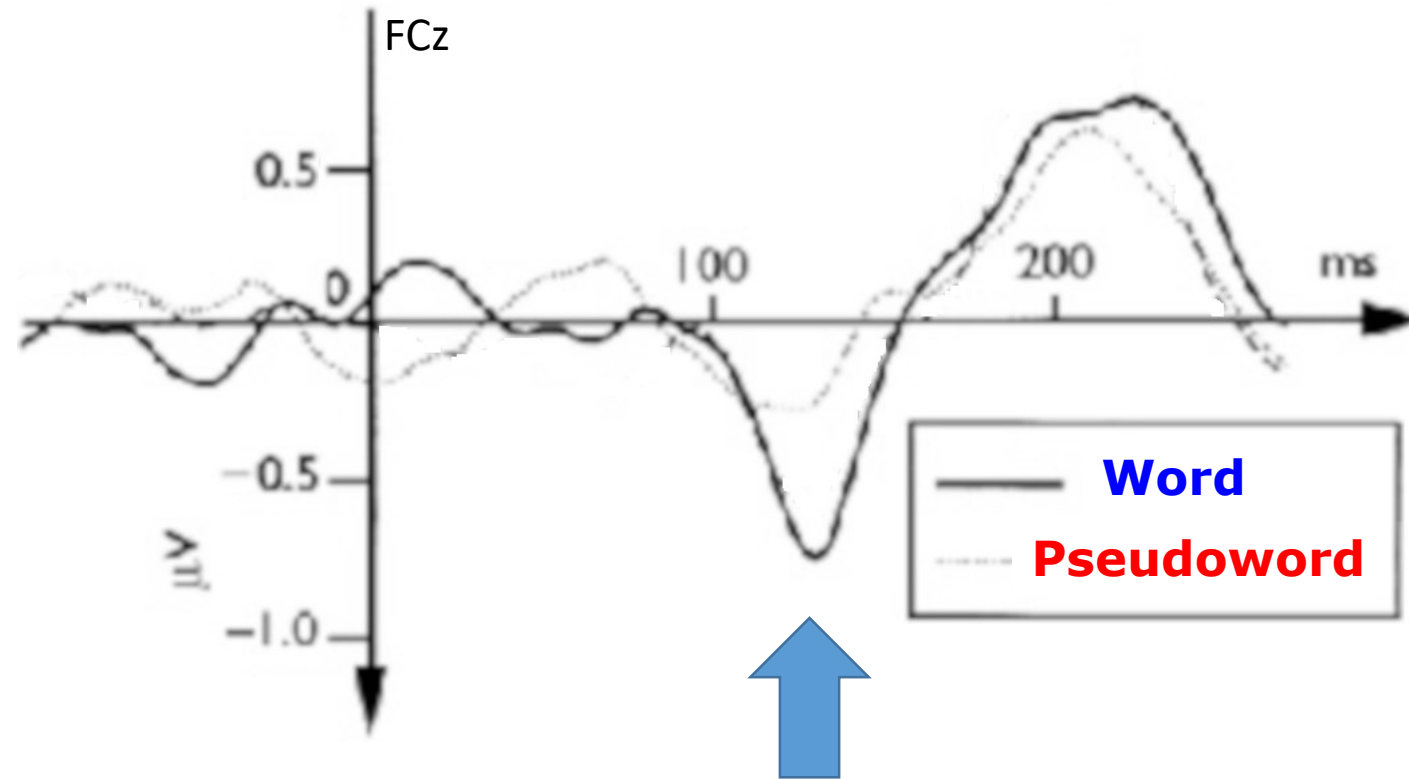


Figure adapted from Shtyrov & Pulvermüller (2002)

- **Pseudoword:** **pǎ**
- **Word:** *kǎ*

- **Pseudoword:** **pǎ**
- **Word:** *kǎ*

- **Allomorph:** **ká**
- **Word:** *pá*

standards

deviants

• **Pseudoword:**

pǎi pǎi pǎi

...

pǎ

• **Word:**

kǎi kǎi kǎi

...

kǎ

• **Allomorph:**

kái kái kái

...

ká

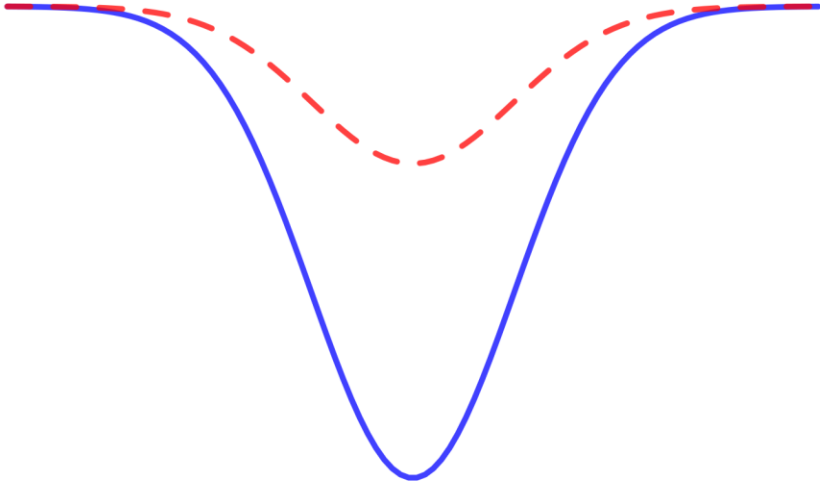
• **Word:**

pái pái pái

...

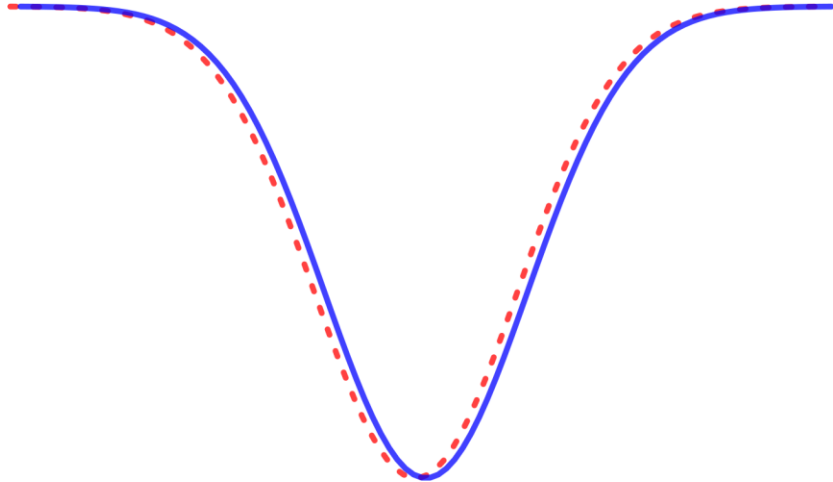
pá

Word vs. Pseudoword



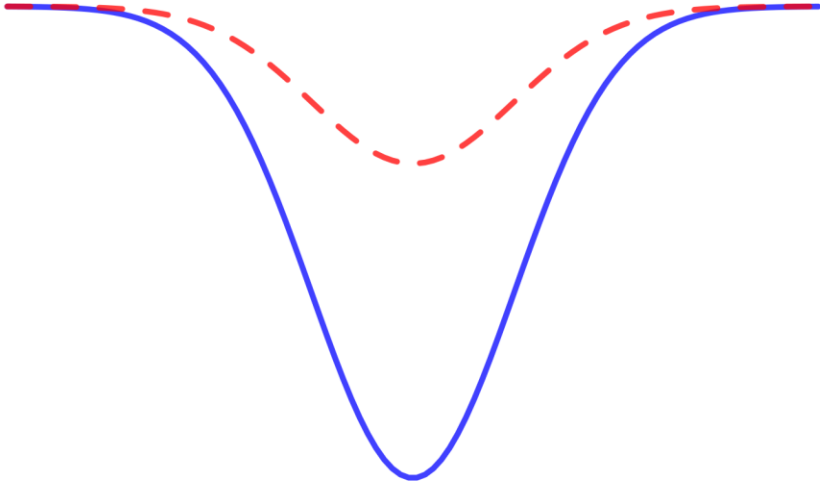
- - - pă (pseudoword)
— kă (word)

Word vs. Allomorph



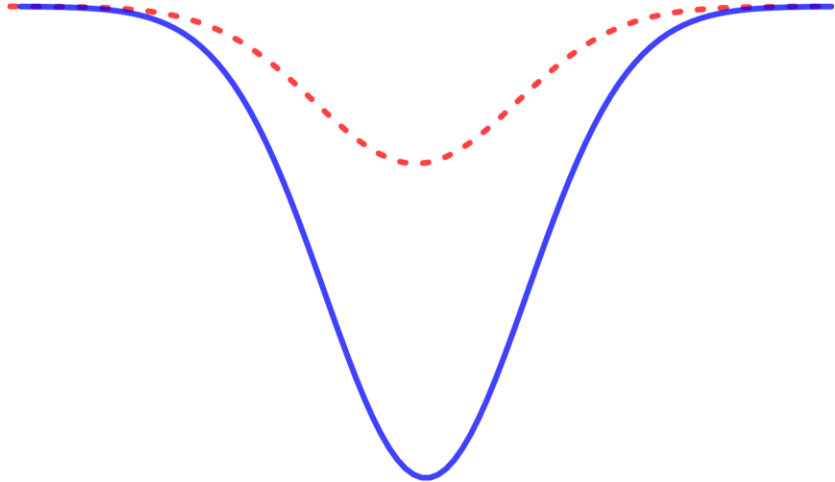
- - - ká (allomorph)
— pá (word)

Word vs. Pseudoword



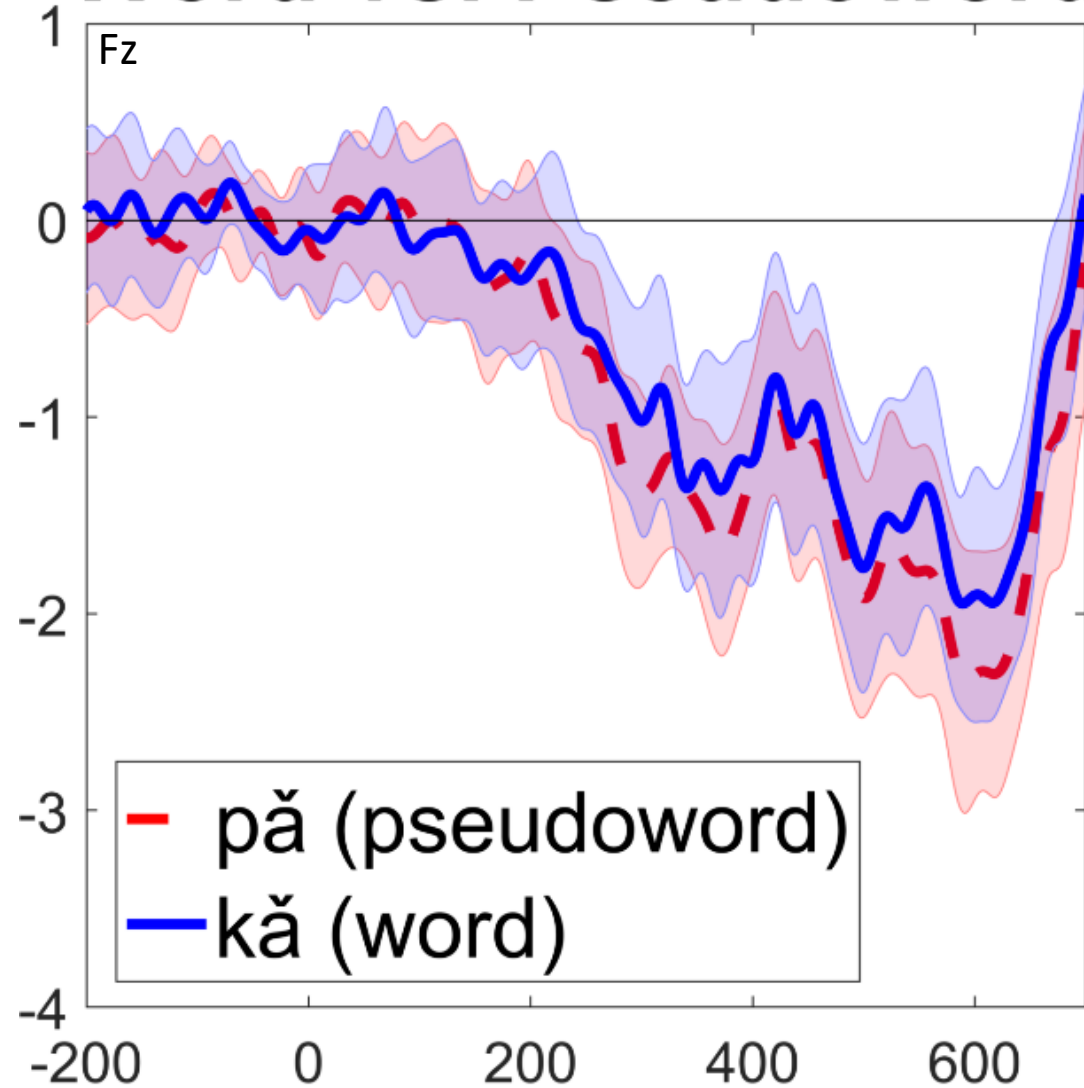
- - - pă (pseudoword)
— kă (word)

Word vs. Allomorph



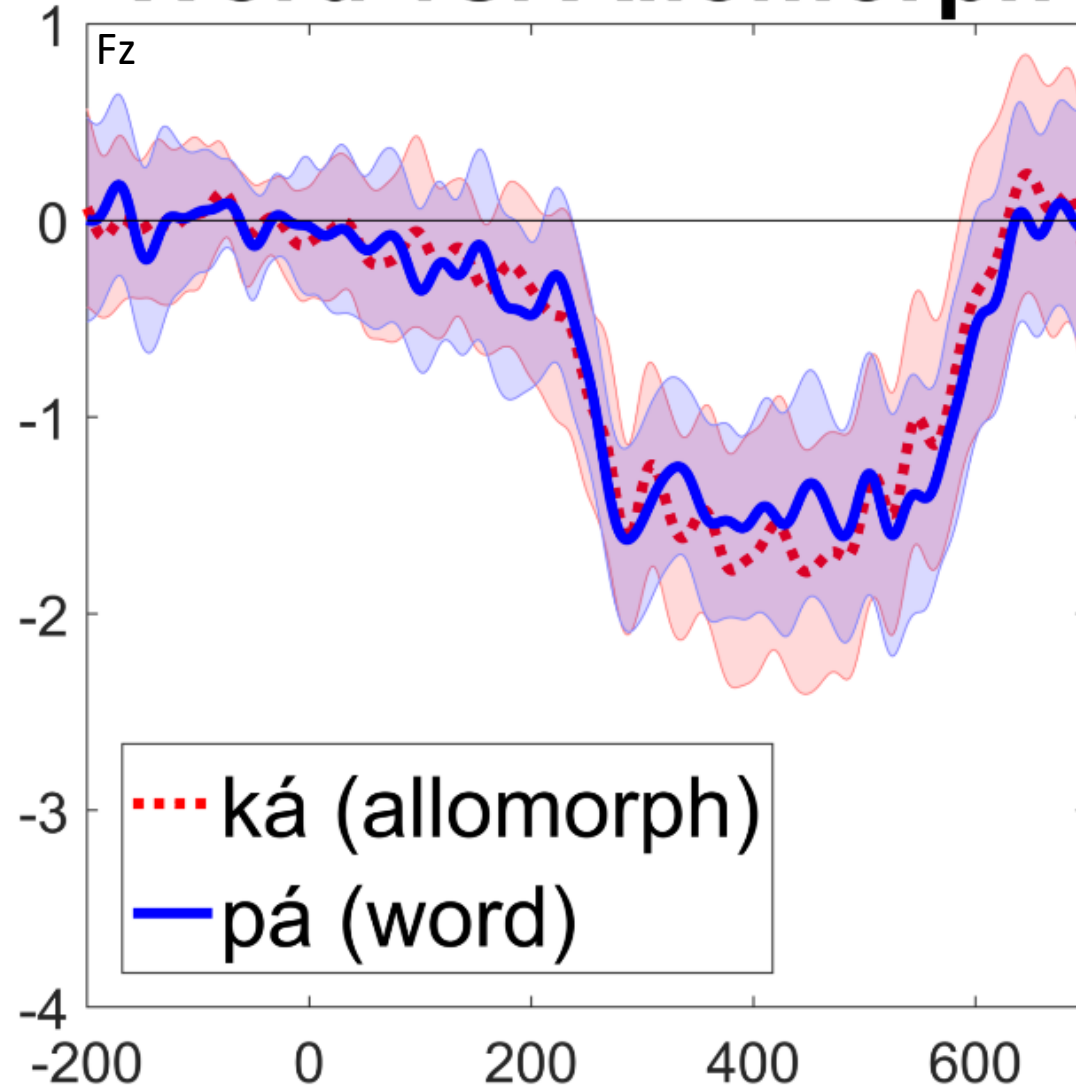
- - - ká (allomorph)
— pá (word)

Word vs. Pseudoword



Time from vowel onset (ms)

Word vs. Allomorph



Time from vowel onset (ms)

“brick”

“blick”

“brick”

“blick”

	T2 syllable exists	T2 syllable is gap	All tones are gaps
T1	<i>shī</i>	<i>saī</i>	<i>tēi</i>
T2	<i>shí</i>	<i>saí</i>	<i>téi</i>
T3	<i>shǐ</i>	<i>saǐ</i>	<i>těi</i>
T4	<i>shì</i>	<i>sai</i>	<i>tèi</i>

• **Pseudoword:** **pǎi pǎi pǎi ... pǎ**

• **Word:** **kǎi kǎi kǎi ... kǎ**

• **Allomorph:** **kái kái kái ... ká**

• **Word:** **pái pái pái ... pá**

- Type II error?
- Unknown confound in stimuli?
- Chinese is special?
- Pseudowords were too difficult?
- Lexicality of standards?
- MMN lexicality effect is not replicable?

Thank you!

多謝!

감사합니다!