

Elena Riekhakaynen, Alena Balanovskaia

Saint-Petersburg State University, St. Petersburg, Russia

SLIPS OF THE EAR:

NATIVE SPEAKERS VS. SECOND LANGUAGE LEARNERS



1) Theoretical and methodological background

2) Our research: method and results

3) Discussion and outcomes

What do we call slips of the ear?

a type of "negative linguistic data"

slips of the pen, misprints





"slips while reading"



slips of the ear, misperceptions, mishearings



Slips of the ear

"a listener reports hearing clearly something that does not correspond to what a speaker has said"

Shockey L., Bond Z. (2014) What Slips of the Ear Reveal about Speech Perception. *Linguistica Lettica*. Vol. 22. P. 107.

- 1. "Paper-and-pencil" method: collections of perceptual errors:
- Bogoroditskij, V.A. (1911) Lektsii po obschemu jazykovedeniju [Lectures in General Linguistics]. Kazan', 246 pp.
- Bond, Z.S. (1999) Slips of the Ear: Errors in the Perception of Casual Conversation. San Diego, CA, US: Academic Press.

2. Analysis of spoken corpora:

Stepanova S.B. Oslyshki i peresprosy kak baza dl'a issledovanija vosprijatija rechi [Slips of the ear and echo-questions as the basis for speech perception research]. *Problemy fonetiki* [Problems of phonetics]. Moscow: Russian Language Institute, 2014. P. 112-113.

- natural communication
- mistakes of transcribers

3. Dictation task experiment:

Chiari, I. (2005) Slips and errors in spoken data transcription. In: Proceedings of 5th International Conference on Language Resources and Evaluation. Università La Sapienza di Roma Dipartimento di Studi Filologici, Linguistici e Letterari.

Slips of the ear

"a listener reports hearing clearly something that does not correspond to what a speaker has said"

Shockey L., Bond Z. (2014) What Slips of the Ear Reveal about Speech Perception. *Linguistica Lettica*. Vol. 22. P. 107.

for native speakers

Slips of the ear

"a listener reports hearing clearly something that does not correspond to what a speaker has said"

Shockey L., Bond Z. (2014) What Slips of the Ear Reveal about Speech Perception. *Linguistica Lettica*. Vol. 22. P. 107.

for second language learners: slip of the ear - **only for familiar words!!!**

1. Introspection + "paper-and-pencil" method:

Polivanov, Ye.D. (1928 / 1968) Faktory foneticheskoj evolutsii jazyka kak trudovogo protsessa [Factors of the phonetic evolution of a language as a workflow] // Stat'i po obschemu jazykoznaniju [Papers in General Linguistics]. M.: Nauka. P. 64.

- 2. Dictation task experiment + post-experiment interview:
- our current research

Our research: the aim of the study

To compare the mechanisms of word recognition in Russian as a native and as a second language

100 frequent Russian words (according to <u>http://dict.ruslang.ru/freq.php</u>) = 5 lists, 20 words each

In every list:

1) all possible Russian consonants + 18 perceptual variants of vowels

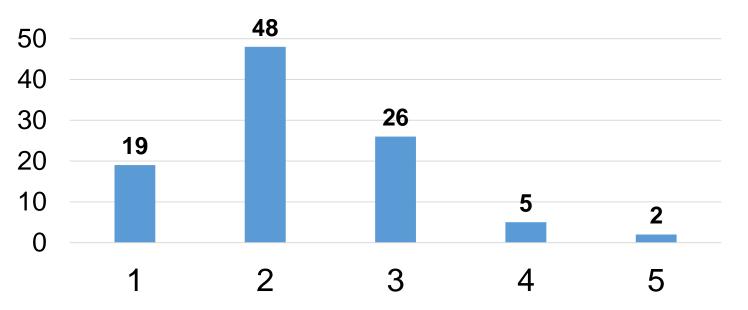
C_C	C_C ^j	C ^j _C	C ^j _C ^j
		i	
i			
а	a ⁱ	ⁱ a	ⁱ a ⁱ
Ο	O ⁱ	ⁱ O	ⁱ O ⁱ
u	u ⁱ	ⁱ u	ⁱ u ⁱ
е	e ⁱ	ⁱ e	ⁱ e ⁱ

In every list:

1) all possible Russian consonants + 18 perceptual variants of vowels

2) words of different syllable structures (from 1 to 5 syllables)

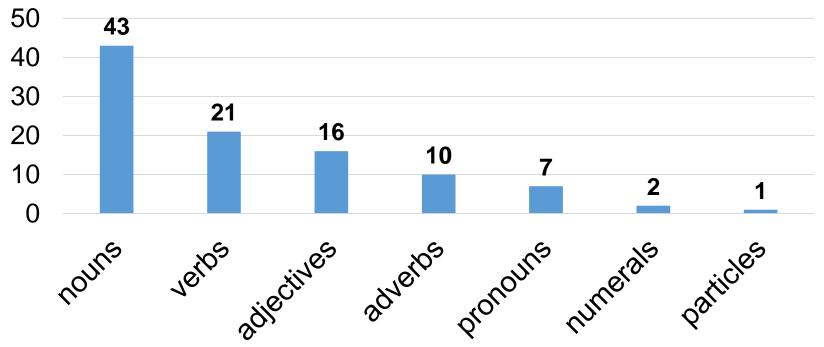
Stimuli: number of syllables



In every list:

- 1) all possible Russian phonemes + perceptual variants of vowels
- 2) words of different syllable structures (from 1 to 5 syllables)

3) nouns, verbs, adjectives, adverbs, pronouns, numerals, and particles



List 1

chelovek 'man / person' l'ubit' 'to love' gotovyj 'ready' fil'm 'movie' skazať 'to tell' zhenschina 'woman' vmeste 'together' por'adok 'order' pervyj 'first' stikhi 'poems'

vz'ať 'to take' khorosho 'well' forma 'form' den'gi 'money' dal'okij 'distant' protsess 'process' poluchit' 'to receive' russkij 'Russian' jescho 'more / else' ľuboj 'any'

Our research: method

- Dictation task experiment
- For second language learners: + a post-experiment questionnaire (written translation)

Our research: participants

- 30 native speakers of Russian;
- 30 Chinese students who study Russian as a foreign language (B1 or B2).

Our research: Results

Number of answers and mistakes:

	Overall number of answers	Number of slips of the ear	Number of different words with at least one mistake
Native speakers	3000	61 (2.0%)	21 out of 100
Second language learners	2934	137 (4.7%)	48 out of 100

Our research: results – native speakers

Initial consonant substitutions (34):

bol'she 'more' – Pol'sha 'Poland' (15!)

den' 'day' – ten' 'shadow'

belyj 'white' – spelyj 'ripe'

Our research: results – native speakers

Other (less frequent) phonetic changes:

- non-initial consonant substitutions;
- vowel substitutions;
- extra syllable;
- final substitutions;
- sound metathesis.

Our research: results – second language learners

Final substitutions (33):

kazhdyj 'every' – karty 'cards'

nachalo 'beginning' – nachat' 'to begin'

verit' 'to believe' – vera 'faith'

Our research: results – second language learners

Stress shift (21):

ťóťa 'aunt' – teátr 'theatre'

p'átnitsa 'Friday' – p'atnádtsat' 'fifteen'

zhénschina 'woman' – tishiná 'silence'

Our research: results – second language learners

Typical sound substitutions:

fi<u>r</u>ma 'company' – fi<u>l'</u>ma 'film.GEN'

da<u>l'</u>okij 'distant' – do<u>r</u>ogi 'roads'

<u>r</u>egion 'region' – <u>l</u>egion 'legion'

Our research: results – number of syllables

For native speakers: the more syllables there are in a word the less often slips of the ear occur.

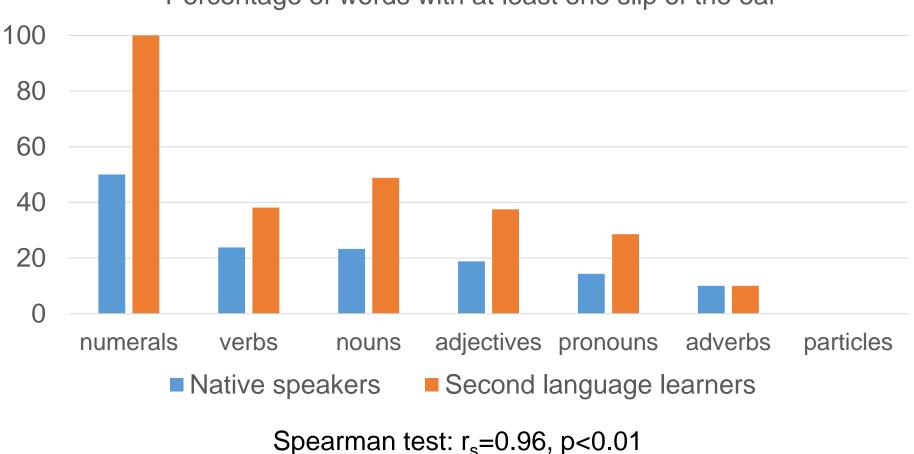
Does not work for the Chinese students!!!

	Native speakers		Second language learners	
U y II G D I G O G	Percentage of words with at least one wrong answer	Percentage of all incorrect answers	Percentage of words with at least one wrong answer	Percentage of all incorrect answers
1	36.8	3	31.6	2.5
2	20.8	2.4	45.8	4.8
3	15.4	1.3	42.3	6
4	0	0	20	1.4
5	0	0	100	15

Discussion: why do native speakers substitute consonants more often than vowels?

Discussion: why did we get different results for native speakers and second language learners?

- part-of-speech-effect:



Percentage of words with at least one slip of the ear

l'ubit' ('to love') -> gotovit' ('to prepare') (4 / 10) (instead of gotovyj 'ready')

familija ('last name') -> o**tch**estvo ('patronymic') **(4 / 12)** (instead of o**bsch**estvo 'society')

firma 'company' -> forma 'form'

sfera 'sphere' -> vera 'faith'

znať 'to know' -> znachit 'so / it means'

firma 'company' -> forma 'form'

sfera 'sphere' -> vera 'faith'

znať 'to know' -> znachit 'so / it means'

- only for native speakers: _____

bol'she 'more' -> Pol'sha 'Poland'

What to do next?

Acknowledgements

1) The project "Linguistics Lost and Found: the Lessons of the Language Building Policy in the USSR" supported by the research grant 16-18-02042 from the Russian Science Foundation.

1) We would like to thank PhD Tatiana Petrova who helped us to organise the experiment with second language learners.

Thank you!