#### **Illustrations of Ukrainian Phonetics**

Angela Yang LING 103 Winter 2023 Discussion 1D

#### 1. Introduction

This paper explores the phonetics of Ukrainian, the language natively spoken in Ukraine, specifically the Southwest dialect commonly spoken in the region of Lviv. Ukrainian belongs to the Indo-European family and Slavic subfamily and has three main dialects: East, Northwest, Southwest, distributed based on geography [1]. Ukrainian is spoken by roughly 40 million native speakers today [2]. The writing system of Ukrainian is the Cyrillic Alphabet, which is largely phonetic.

My consultant for this project is Maksym Alex Prokopovych. Maksym is 22 years old and was born in Los Angeles. He spoke Ukrainian as his first language at home, taught at first by his mother, supplemented with Saturday school. He continues to speak predominantly Ukrainian at home and can speak it fluently. Maksym learned English secondly starting from preschool and knows how to read and write Ukrainian proficiently. Every few years, he travels to Ukraine and can speak fluently with native speakers there. His dialect comes from his mother, who is from Lviv from west Ukraine.

The reference source for this project is Ukrainian, an "Illustrations of the IPA" article from the Journal of the International Phonetic Association by Cambridge University Press [3]. The article is a research article on accumulated sources on Ukrainian as a language. It also contains the Ukrainian phonemes and the allophones that may result from them in different contexts. In addition, diacritics and recording information is also included. Example words and paragraphs both in Cyrillic and IPA are also within its contents, as well as a Cyrillic alphabet. However, my consultant found the words provided outdated, formal, and too simple to illustrate the context-dependent allophones, so the word list provided from Maksym himself with edits from myself. For source pronunciations, I am using Wiktionary transcriptions [7].

#### 2. Ukrainian Consonants

The consonants listed by Pompino-Marschall are listed in the chart below. Palatalized sounds in parentheses are allophones of the non-palatalized phonemes, also known as "half-palatalized". As in the IPA chart, voiceless sounds are in the left part of each cell and voiced sounds are in the right part. Some phonemes here in Pompino-Marschall's consonant chart exist as allophones in my findings. I've marked those additional allophones with brackets.

#### (1) Consonant IPA chart

		Bilabial	Labio- dental	tal/A	en- Alve- lar	pa tal/l	eolo- ila- Post- eolar	Palatal	Velar	Glottal
Plosive	plain	p b		t	d				k g	
	palatalized	$(p^j)$ $(b^j)$		t <sup>j</sup>	$\mathbf{d}^{\mathrm{j}}$				$(k^j)$ $(g^j)$	
Nasal	plain	m			n					
Ivasai	palatalized	(m <sup>j</sup> )			n <sup>j</sup>					
Fricative	plain		f	S	Z	ſ	3		X	ĥ
Tilcative	palatalized		$(f^{j})$	s <sup>j</sup>	$[\mathbf{z}^{\mathbf{j}}]$	$(J_j)$	(3 <sup>j</sup> )		$(\mathbf{x}^{\mathbf{j}})$	$(h^j)$
Affricate	plain			ts	$[d\widehat{z}]$	ŧſ	विद्			
Timeate	palatalized			tsi	d⊋	(tJ)	$(d\overline{3}^{j})$			
Trill	plain				r					

	palatalized		$[r^j]$		
Approxi-	plain	υ			
mant	palatalized	(v <sup>j</sup> )		j	
Lateral	plain		1		
Approxi- mant	palatalized		<u>1</u> j		

The remainder of this section illustrates the consonant phonemes and their allophones. For each phoneme and word example, there will be several transcriptions each. The first is the broad transcription, which shows the underlying phonemes of the word. The second is a narrow transcription of how Maksym pronounces each word in the recording. There may be more than one of these if the pronunciation of the word was done in multiple ways. Finally, I will give narrow transcriptions of the words from Wiktionary [7].

The spelling of the word in Cyrillic will also be provided along with the glossary of meanings in English. The numerical order follows that of the recording. Respective allophones will be discussed in sections following each manner of articulation.

#### 2.1 Ukrainian Consonant Palatalization

Palatalization is a contrastive feature of Ukrainian consonants and is reflected in the morphology of the Cyrillic alphabet, as palatalizing consonants often produces separate phonemes. For example, the set of Cyrillic representing unpalatalized phonemes i e a y (phonemes are /i ε u a/) is in complementarily distribution with the set of palatalized phonemes i ε π ιο (phonemes are /ji jε ju ja/) [6]. Pompino-Marschall describes three categories of palatalization: soft, semi-soft, and hard palatalized sounds. While phonetically semi-soft and soft sounds are all considered to be the original phonemes with a palatalizing diacritic, there exists a perceived distribution between them, in which soft sounds are considered completely palatalized, and hard sounds is considered unpalatalized, and semi-soft sounds are perceived as somewhere in between [3]. Accordingly, the IPA chart adds distinction between palatalized phonemes and non-palatalized phonemes. Ukrainian also has the general quality of being more enunciated and phonetic than languages such as English. The alphabet is highly phonetic and match broad transcriptions closely.

#### 2.2 Plosives

The voiced plosives are fully voiced, as Pompino-Marschall notes, and in my recordings, oftentimes mark the places of most stress in words. Voiceless plosives are unaspirated throughout. It is possible the voiced plosives' complete voicing helps it contrast better with the voiceless plosives to form phonemic complementary distribution.

#### (2) Plosive phonemes

Num- ber	Pho- neme	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
64	/p/	/prostir/	[ˈprəst̞ʰir]	[ˈprəs <sup>j</sup> t <sup>j</sup> ir]	Простір	landscape
21	/b/	/berezen <sup>j</sup> /	[ˈbɛɾɛzɛŋ]	[bereˈzan <sup>j</sup> ]	Березень	March (the month)
70	/t/	/tin <sup>j</sup> /	$[c^h i n^j]$	[t <sup>j</sup> in <sup>j</sup> ]	Тінь	shadow
68	/d/	/dɪwɪs <sup>j</sup> /	[divis:]	$[d^{j}I'v^{j}is^{j}]$	Дивись	look (command second person)
71	/t <sup>j</sup> /	/tjulɛnʲ/	[duˈłɛŋʲ]	[tʲulɛnʲ]	Тюлень	seal
34	$/d^{j}/$	/dim/	[ˈdjim]	[d <sup>j</sup> im]	Дім	home/house
48	/k/	/kələ/	[ˈkəłə̯]	[ˈkəɫə]	Коло	circle
32	/g/	/galij/	[ˈga͡t͡t̪]	[gali <sup>j</sup> ]	Галій	Gallium

## 2.3 Allophones of plosives

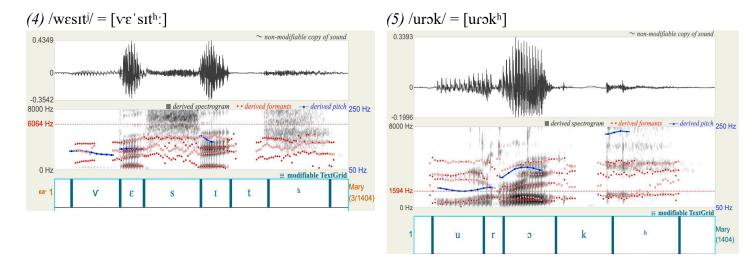
Several noted allophonic phenomena arise in production of varying prominence. There are roughly 3 following categories: palatalizing allophones as predicted by Pompino-Marschall, consistent apparent allophones as seen in Maksym's recordings, and mentions of possible instances I found but lacking strong enough evidence.

## (3) Allophones of stops

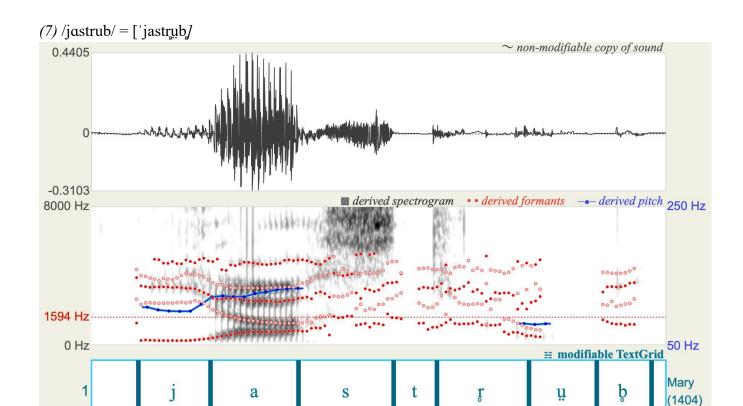
Num- ber	Allophone	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
7	$/t^{j/} \longrightarrow \left[t^{h}\right]/\sqrt{V_{\perp}}\#$	/wesit <sup>j</sup> /	[ve'sith:]	[ˈvʲesʲɪtʲ]	весить	hangs (adj, neu- ter)
18	$/b/ \rightarrow [b] / V_\#$	/jastrub/	[ˈjastr̪u̞b̪]	[ˈjastrʊb]	Яструб	hawk
12	$/d/ \rightarrow [d^h] / V_\#$	/jod/	[ˈjɔːdʰ]	[bcj]	йод	Iodine
11	$/k/ \rightarrow [k'] / V_\#$	/jiʒak/	[ˈjiːʒak']	[jiˈʒak]	їжак	porcupine
11	$/k/ \rightarrow [k^h] / V_\#$	/jiʒak/	[ˈjiːʒak']	[jiˈʒak]	їжак	porcupine
20	$/b/ \rightarrow [6] / \# \text{ or V}_/u/$	/jabluko/	[ˈjaː6ułkə̞]	[ˈjabłʊkɔ]	Яблуко	apple
53	$/p/ \rightarrow [b] / \#\_/u/$	/pustelja/	[bustełja]	[pʊˈstɛl <sup>j</sup> ɐ]	Пустеля	desert

/b/ appears slightly implosive when appearing before the /u/ vowel. For this I found two possible instances. I hypothesize this is as the place of articulation is so drastic between bilabial and high back vowel, that it creates a slight implosive airflow. This is difficult to show on the spectrogram because the distinctive triangle for implosive stops is very small.

Aspiration seen in word final voiceless stops in the below spectrograms. Though Ukrainian voiceless stops are unaspirated according to Pompino-Marschall, Maksym's recordings tended to aspirate /p t k/ when they occurred word final[3]. Ukrainian also doesn't devoice word final, however, Maksym tends to devoice his voiced stops when they are word final. This may be a remnant of English as Maksym is fluently bilingual in both languages, and word final aspiration and devoicing is prominent in English. The clear voiceless aspiration broad band is visible in figures (4) and (5).



In figure (7), the spectrogram shows the nonexistence of a voicing bar in the /b/ segment of the spectrogram. Aside from the release of the stop, this segment is barely visible because of word-final devoicing.



## 2.4 Nasals

	(8)	Nasal	phonemes
ı		Ivasai	Diidiiciiics

Number	Pho- neme	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
42	/m/	/mɔʒɛ/	[ˈmɔ̃ʒa̯]	[ˈmɔʒe]	Може	maybe/can
57	/ <b>n</b> /	/nestɪ/	[nɛsˈtɪ]	[neˈstɪ]	Нести	to carry
58	$/n^{j}/$	/chc <sup>i</sup> n/	[ˈnːəɦəʰ]	[ˈnʲɔɦɔ]	Нього	third person datative

# 2.5 Allophones of nasals

# (9) Allophones of nasals

Num- ber	Allophone	Broad	Narrow	Source	Ukrain- ian Cy- rillic	English gloss
58	$/\mathrm{n}^{\mathrm{j}/} \longrightarrow [\mathrm{n}] \ / \ \#_\mathrm{V}$	/chc <sup>i</sup> n/	[ˈɲːəĥəʰ]	[ˈnʲəɦə]	Нього	third person data- tive masc pronoun
28	$/n^{j}/ \rightarrow [\eta] / /\epsilon / \text{ or } /I/\#$	/wəhən <sup>j</sup> /	[vo:ˈhoiŋ]	[woˈhən <sup>j</sup> ]	Вогонь	fire

# 2.6 Fricatives and Affricates

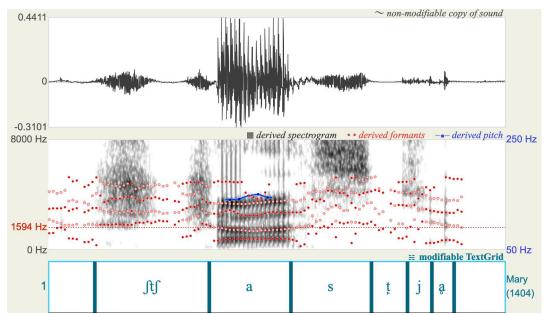
(Fig ) Fricative and Affricate phonemes

Number	Phoneme	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
77	/ <b>f</b> /	/fara/	[faːra]	[ˈfarə]	Фара	headlight

66	/s/	/sən/	[sɔ̃n̪]	[son]	Сон	dream
69	/ <sub>S</sub> j/	/3S <sup>j</sup> /	[?sc?]	$[\mathfrak{s}\mathfrak{s}^{\mathfrak{j}}]$	Ось	here
43	$/\mathbf{z}/$	/zaporiʒa/	[ˈzaporiˌʒːa]	[zepoˈrʲiʒʲːɐ]	Запоріжжя	Zaporizhzhya city
80	/ <b>X</b> /	/xələdetsi/	[ˈxələˈdɛt͡sː]	[ˈxɔlɔdɛt͡sʲ]	Холодець	Aspic
52	/ <b>h</b> /	/filma/	[ĥˈlɛnã]	[ˈɦłɪnɐ]	Глина	clay
83	ts	/t͡sɪbulja/	[t͡sɪˈbuɫja]	[t͡seˈbulʲɐ]	Цибуля	onion
79	tst	/xləpɛt͡sᠯ/	[ˌxłɔˈpɛt͡sː]	[ˈxłɔpet͡sʲ]	Хлопець	boy
46	d⊋i	/dz <sup>j</sup> əbatı/	[ˈd͡zjoʊbatɪː]	[dz <sup>j</sup> əbatı]	Дзьобати	to peck
85	t∫	/tʃɔmu/	[ˈt͡ʃɔmuː]	[tʃoˈmu]	Чому	why
10	विद्र	/pidʒak/	[piːˈd͡ʒːak']	[p <sup>j</sup> iˈd͡ʒak]	піджак	suit jacket

In figure (10) I've provided a spectrogram to illustrate the compound consonant in Ukrainian /ʃtʃ/ which appears as a fricative followed by a combined stop and fricative affricate. [4] mentions the Cyrillic alphabet has this phoneme.

# (10) / ffastja / = ['ffastja]



#### 2.7 Allophones of fricatives and affricates

(11) Allophones of fricatives and affricates

Number	Allophone	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
29	$/\hbar/ \rightarrow [c]/_i$	/hist <sup>j</sup> /	[ˈçistʰ]	[ɦʲisʲtʲ]	Гість	guest
81	$/x/ \rightarrow [c]/_i$	/ximija/	[ˈçimia̯]	[ˈxʲimʲija]	Хімія	chemical
9	$/ \mathcal{J} / \rightarrow [c] / [i]$	/in∫i/	[ˈiŋei̯]	[ˈinʲʃʲi]	інші	other

/x/ and /h/ become [ç] before the high front i vowel

/ʒ/ appears as [z] in one instance, becoming retroflex. This is not adequately supported but I thought this was interesting as Pompino-Marschall noted that some Western Ukrainian dialects (of which, L'viv is one

such western state) manifest post alveolar fricatives and affricates as retroflex alveolar allophones, as an influence of bordering Polish assimilation.

#### 2.8 Trills

# (12) Trill phonemes

Number	Phoneme	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
62	/ <b>r</b> /	/rɔstɪ/	[ˈrɔstɪ]	[rɔˈstɪ]	Рости	to grow
63	$/r^{j}/$	/pirja/	[ˈpiːri̯ja̞]	[ˈpirja]	Пір'я	feathers

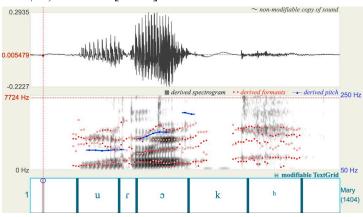
#### 2.9 Allophones of trills

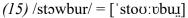
## (13) Allophones of trills

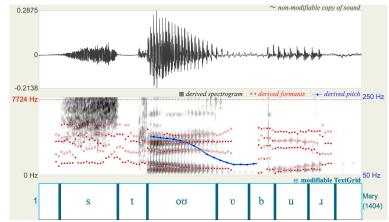
Number	Allophone	Broad	Narrow	Source	Ukrainian Cyrillic	<b>English gloss</b>
65	$/r/ \rightarrow [r] / V_V$	/starıj/	[ˈstaɾeîː]	[stɐˈrɪi̯]	Старий	old (adj, masc)
63	$/r^{j}/ \rightarrow [ri] / V_V$	/pirja/	[ˈpiːri̯ja̞]	[ˈpirja]	Пір'я	feathers
22	$/r/ \rightarrow [\underline{r}] / V_{\underline{\hspace{0.1cm}}} \#$	/stowbur/	[ˈstoʊːvbur̪]	[ˈstəu̯bʊr]	Стовбур	tree trunk/stump
22	$/r/ \rightarrow [I] / /u/_\#$	/stowbur/	[ˈstoʊːvbuɹ̯]	[ˈstɔu̯bʊr]	Стовбур	tree trunk/stump

Rolled r's in Ukrainian are the perceived underlying phoneme in all rhotic utterances. However, the allophones of /r/ vary greatly. Most commonly, it surfaces as a alveolar tap/flap especially in unstressed syllables, as the trill shortens to a single unit (14). This is shown in the gap between the vowels in the spectrogram. Word finally, /r/ is sometimes realised as [I] (15). You can see the formants pinch together from the [I] vowel to the [I].

 $(14) / urok / = [urok^h]$ 







# 2.10 Approximants and lateral approximants

## (14) Approximant phonemes

Number	Phoneme	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
35	/ʊ/	/woda/	[vɔˈdːa]	[wɔˈda]	Вода	water
12	/ <b>j</b> /	/jɔd/	[ˈjɔːdʰ]	[jɔd]	йод	Iodine

54	/1/	/mlɪn/	ˈmɫlɪn]	[mlin]	Млин	mill
51	/ <b>1</b> j/	$/l^{j}wiw/$	['lvif:], ['levif:]	[lʲʊʲiu]	Львів	Lviv

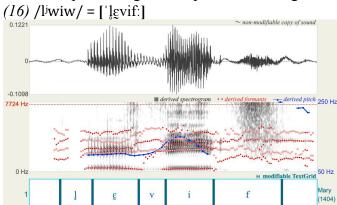
# 2.11 Allophones of approximants and lateral approximants

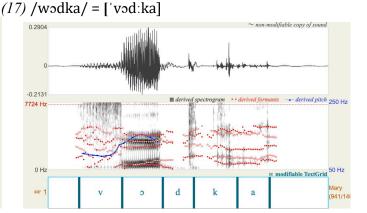
(15) Allophones of approximants and lateral approximants

Num- ber	Allophone	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
36	$/\upsilon/ \rightarrow [v] / \#_V$	/wodka/	[ˈvɔdːka]	[ˈwɔdkɐ]	Водка	vodka
7	$/v/ \rightarrow [v] / \#_[\epsilon]$	/wɛsɪt <sup>j</sup> /	[veˈsɪtʰː]	[ˈvʲesʲɪtʲ]	весить	hangs (adj, neuter)
39	$/1/ \rightarrow [1] / eve-$ rywhere	/dʒɛrɛlɔ/	[ˌd͡ʒɛrɛˈłəː]	[dgere'to]	Джерело	source/water spring
40	$/l^{j/} \rightarrow [l^h] / V_\#$	/ʒurawɛl <sup>j</sup> /	[ˌʒuraˈvɛłʰː]	[ʒʊrɐˈʋɛlʲ]	Журавель	crane (the bird)
44	$/j/ \rightarrow [\epsilon] / V_\#$	/zɛlɛnɪj/	[ˈzɛłɛnɛ̞ː]	[zeˈłɛnei̯]	Зелений	green
51	$/\upsilon/ \rightarrow [f] / [i] \#$	$/l^{j}wiw/$	[ˈl̥ɛvifː]	[lʲʊʲiu̯]	Львів	Lviv

According to Pompino-Marschall, since non-palatalization has a velarizing effect, /l/ tends to be realized as the velarized /ł/ regardless of word-internal positioning. This is due to the raised dorsum of the tongue, as well as the general enunciated quality of Ukrainian.

Allophones of v/v range from narrow fricative constriction to approximant. Sometimes, due to word final devoicing coupled to more closure, a resulting [f] allophone emerges as in (16). We can see there is no voicing bar in that segment, as well as broad band noise indicative of fricative accoustic manner. In contrast, in (17) we can see the voicing bar and frication but less than in (16). I classified this still as a fricative as there was still frication. However, the difference in these two allophones shows how this phoneme occupies a range of allophones differing on the axis of manner of articulation.





## 3. Ukrainian Vowels

The vowel phonemes are shown in (18) as according to Pompino-Marschall. The mid central vowel occurs voiced and unvoiced only in unstressed syllables.

# (18) Vowel phonemes

	front	central	back
high	i		u
upper-mid	I		
mid	3	ə	9

lower-mid

low glides (Ĭ) voiceless vowels

(e)

# 3.1 Vowel phonemes

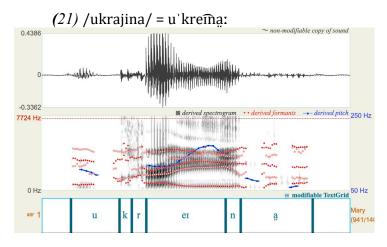
(19) Vowel phonemes

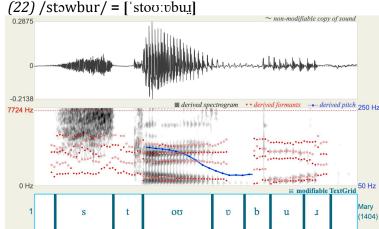
Number on recording	Phoneme	Broad	Narrow	Source	Ukrain- ian Cy- rillic	English gloss
9	/i/	/in∫i/	[ˈiŋɛi̯]	[ˈinʲʃʲi]	інші	other
50	/ <b>I</b> /	/list/	[ˈłɪstʰ]	[łɪst]	Лист	letter
7	/ε/	/wesit <sup>j</sup> /	[veˈsɪtʰː]	[ˈvʲesʲɪtʲ]	весить	hangs (adj, neuter)
1	/a/	/apɛl <sup>j</sup> sɪn/	[ˈapeɪˌsɪm]	[epel <sup>j</sup> 'sın]	апельсин	orange (the fruit
15	/၁/	/slawa/	[ˈsłəvəː]	[ˈsłɔwɔ]	Слово	word
31	/u/	/harbuz/	[ˈɦarbusː]	[ˈɦarbuz]	Гарбуз	pumpkin

# **3.2 Allophones of vowels** (20) Allophones of vowels

Num- ber	Allophone	Broad	Narrow	Source	Ukrainian Cyrillic	English gloss
55	$/V/ \rightarrow [V] \text{ or } [V]  or $	/mjakıj/	[miˈjaki̯]	[mjɐˈkɪi̯]	М'який	soft
65	$/I/ \rightarrow [e\widehat{1}]/C_{j}$	/starīj/	[ˈstareîː]	[strˈrɪi̯]	Старий	old (adj, masc)
91	$/I/ \rightarrow [\epsilon] / \#$	/ʃtʃɛbɛtatı/	[ʃt͡ʃɛ̂bɛˈtatɛ̯]	[stsebe tate]	Щебетати	bird chirp
84	$/a/ \rightarrow [æ] / \#$	/t͡sjɑt͡sʲka/	[ˈt͡sæt͡skːa̯]	[ˈt͡satskɐ]	Цяцька	toy
22	$/\mathfrak{d}/ \to [o\overline{\upsilon}] / /u/_\#$	/stowbur/	[ˈstoʊːvbur̪]	[ˈstɔu̯bʊr]	Стовбур	tree trunk/stump
56	$/i/ \rightarrow [I]$ / unstressed	/remin <sup>j</sup> /	[ˈrɛmɪŋ]	[ˈrɛm <sup>j</sup> in <sup>j</sup> ]	Ремінь	belt
42	$/\mathfrak{d}/ \to \tilde{\mathfrak{d}}$ / /nasal/_C	/mɔʒɛ/	[ˈmɔ̃ʒã]	[ˈmɔʒe]	Може	maybe/can
71	$/u/ \rightarrow [u] / /t/ \text{ or } /d/\_C$	/tjulɛn <sup>j</sup> /	[tʰuˈłʲɛnʲ]	[t <sup>j</sup> ulɛn <sup>j</sup> ]	Тюлень	seal

Here, I provide evidence for allophonic diphthongs. In the spectrograms (21) and (22), the spectrograms show the diphthongs erand ov. You can see F1 and F2 move to form the vowels forming up the diphthong.





According to Pompino-Marschall, Ukrainian does not have final devoicing, however Maksym devoices final vowels to varying degrees, often with variations of creaky, breathy, or devoiced. This may also be attributed to English phonetic influence.

## 4. Suprasegmentals

Ukrainian has no contrastive suprasegmentals such asphonemic tones or pitch accents. While stress is not usually contrastive, Pompino-Marschall mentions that there are restrictions on how stress may be placed in utterances. For words of at least four syllables, there may be secondary stress, but it cannot be adjacent to the primary stress. For words with less syllables, there exists only primary stress. The article concludes with the observation that stress position doesn't follow any pattern.

## 5. Passage

Lastly, as a demonstration of Ukrainian allophones in regular performance, I've recorded an excerpt of "My Thirteenth Year Was Wearing On", a poem by Taras Shevchenko, as read by Maksym. A narrow transcription of Maksym's reading as well as the Cyrillic orthography and the English translation of the meaning [5]. While phonetic utterances of words do not usually have pauses between words as words are a mental construct, I've spaced it out so readers could notice the predictable prosodic stress that emerges, as well as orient themselves within the poem using the indentations and punctuation.

#### (23) My Thirteenth Year Was Wearing On

#### Narrow phonemic transcription

ˈmɛ̃ːni trɪˈnastɪj mɪˈnało̯ː.
ja ˈpas jaˈfinata za sɛlɔmː.
tʃī ˈtak, tʃī ˈtɔ tak ˈsɔːnetʃk sijało̞ː,
tʃī ˈtak' mɛ̃ˈni tʃəfiɔ ˈbuło?
mɛˈni ta kłjubɔ, ˈljubɔ stałɔ,
ˈnɛ̃natʃɛ̄ v ˈbəfia.....
uˈʒɛ prɔˈklɪkalı dɔ ˈpajuː,
a ˈja sɔˈbʲu burjaniː
ˈmɔ̃łusʲa ˈbəfiuː... 'ʔi nɛ̃z ˈnãju,
ˈtʃəfiɔ ˈmalɛnʲkəmə mɛ̃ni
ˈtɔʔjd tak ˈprɪjaznɔ ˈmɔlɪləsʲ,
ˈtʃəfiɔ tak ˈvɛsɛlɔ bulɔː.

'hospo dnje nebo, i seło,
'jahnja, 'zdajetsja, 'weselilos!!
'isontse 'hriło, ne pe klo!
'ta ne dowho sontse hrilo:,
'nedowho 'molilosi...
za peklo, 'potserwonilo
i 'raj za palilo:.

# Orthography

Мені тринадцятий минало. Я пас ягнята за селом. Чи то так сонечко сіяло, Чи так мені чого було? Мені так любо, любо стало, Неначе в Бога..... Уже прокликали до паю, А я собі у бур'яні Молюся Богу... І не знаю, Чого маленькому мені Тойді так приязно молилось, Чого так весело було. Господнє небо, і село, Ягня, здається, веселилось! І сонце гріло, не пекло! Та недовго сонце гріло, Недовго молилось... Запекло, почервоніло I рай запалило.

## **Translation** [5]

My thirteenth year was wearing on — Grazing the lambs, one day I was Beyond the village. The sun shone Perhaps? or was it without cause? Such joy, such joy, as at the throne Of God I felt... They'd called already for our food, But I, among the weeds, remained Alone, and prayed to God. Indeed, Why I, a small boy, wished to pray So eagerly, I do not know, Nor how my happiness was caused. Around, the village and the Lord's Sky, the lambs, it seemed, rejoiced, The sun shone warm—yet did not scorch. Not long the sun shone fair and warm,

Not long my prayers I murmured, The sun blazed fiery red above And set this heaven burning.

Here are some phenomena that appear in this reading:

- velarized 1 [1] appears only when Maksym is on stressed or slower portions of the poem. Otherwise, the velarization is skipped and it appears as a "light" 1 [1].
- stress becomes predictable in the prosodic recitation of the passage. The first stress and second stress set a sort of beat which I've marked with syllable marks instead of tonal marks as I felt it represented the utterance and perception of the poem better, as Ukrainian isn't a tonal language.
- word final aspiration did not occur as frequently as before as words were influencing each other across word boundaries and not existing as discreet entities such as in the word list.
- nasalization occured more commonly as the flow of the phrase became more of a focus than the precision of enunciation. Thus, as a result nasals affected the neighboring vowels more.
- devoicing of the phrase final vowels and consonants only occurred at certain phrase types, such as those which pitched downwards overall, as they were declarative. For those that had overal raising pitch did not display these allophones.

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