Phonetic grounding of vocal skills development courses focused on public speaking, stage speech and singing at Czech universities

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presumptions

• human voice is the most common means of interpersonal communication [1]

- phonetic knowledge can usefully inform vocal skills development
- many voice professionals in the Czech Republic do not come from a phonetic-based education • voice pedagogy can lack theoretical background [2]

aims

• examine literature used in university courses focused on vocal skills development

- identify main topics in each publication
- assess how presented methods are informed by phonetic knowledge in 5 domains -
- establish a framework for empirical validation of theses presented in vocal pedagogy

method

• 6 publications in each field chosen from university curricula • set of main recurring topics established within each field • contents of each manual sorted into categories (by topic) • categories assessed as to their phonetic grounding • found mentions of domains compared with expectations

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									/			
		vá 2017		ik 1960			1	ová 2013		er 1963		ap 1972
anatomie, fyziologie	-	procent 8.2	NS 13.1	procent 14.8	NS	procent	NS 8.9	procent 5.4	NS	procent	NS	procent
akustika	0	0.2	5	5.6			6.9	3.4	18	7.9	44.1	20.2
dech	9	12.2	4.4	4.9	22.9	16.4	8.9	5.4	11.5	5	12.1	5.6
artikulace	7.5	10.2	10.6	12			8.9	5.4	4.9	2.2	2.6	1.2
nasazení tónu			2.5	2.8	26.7	19.2	3.5	2.2	13.1	5.8	11.2	5.2
rázání tónů	0.7	1	3.1	3.5								
hlasový rozsah							8.9	5.4	9.8	4.3	5.2	2.4
typologie hlasů			3.1 7.5	3.5 8.5			10.6 5.3	6.5 3.3	13.1	5.8	10.4	4.8
rejstříky rezonance	6.7	9.2	5.6	6.3	38.1	27.4	5.3	3.3	8.2	3.6	12.1	5.6
dynamika	0.7	1	2.0	5.5			3.5	2.2		2.0	3.5	1.6
pěvecké ozdoby	0.7	1					8.9	5.4			6.9	3.2
technika zpěvu	26.9	36.7	12.4	14.1	17.2	12.3	10.6	6.5				
hlasová hygiena	0.7	1	1.9	2.1			10.6	6.5			12.1	5.6
vývoj hlasu			2.5	2.8			10.6	6.5	11.5	5	7.8	3.6

singing courses











Soukup (1972)

m cely		fo	spectrum	amplitude	temporal characteristics	articulation
	articulation (5)		3		3	5
ions	voice initiation (5)	3	3			
ain	vocal range (4)	4	3			
d	voice registers (5)	3	4	2	1	1
edge	resonance (6)		4			2
s)	dynamics (3)		2	3		

Metodika zpěv

Janáčkova akademie múzických umění v Brr Brno 2013

Morávková (2013)

acoustic-phonetic operational domains

• fundamental frequency (f_0)

Soukup, 1972 (1972) – Hlas, zpěv, pěvecké

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• spectrum – sound spectrum, spectral slope, formants • amplitude – sound pressure level, vocal effort • temporal characteristics – phone length/duration, speech rate, rhythm • articulation – voicing, place/manner of articulation,

formants

"resonance" turned out to have many meanings: $\rightarrow nenerally "$ → singer's/actor's formant \rightarrow properties connected to loudness ightarrow propertied connected to timbre \rightarrow other idiosyncratic meaning

ZÁKLADY TECHNIKY ŘEČ

PRO (BUDOUCÍ) UČITEL

tempo/rhythm discussed scarc

prevalent mentio of spectral domain

generally good phonetic knowle (some outliers





AROSLAV KOHOUT

UMĚNÍ MLUVI JEDNAT S LIDMI



Hájková (2011)	Hůrková-Novotná & Šrámková (1985)	Kohout (1996)	Mař	íková (2002)	Svobodová	ŭ (1998)	Špačková (2015)	
main 1 elocution 8	focus: Porthoepy		f_0	spectrum	amplitude	temporal characteristics	articulation	
varying d	egrees of	enunciation (5)				1	5	
phonetic k		intonation (4)	4	1	1			
-		rhythm, tempo (5)	1		1	5		
sometime	-	resonance (4)	1	2	2			
mentione "voice mo		loudness (2)	2		2		2	
	uuluulu							

Marie Maříková **ŘÉTORIK** Manuál komunikačních dovednosti

3. vydání

stage speech courses



Preapokiaay hereckého proj

seneral observances: public speaking manuals are often intended for general public, but singing and stage speech manuals expect singing/acting background knowledge

most publications refer to phonetic literature,

but terminological discrepancies can be

found across and within fields



Coblenzer & Muhar (2001)

Hála (1958)



Hůrková-Novotná & Makovičková (1984, 1986)



slova

Vasiljev (2020)

Vostrý (2021)

noticeable overlap with one domain in each category

main focus of publications variable: enunciation, orthoepy resonance & rhythm general acting skills

	f_0	spectrum	amplitude	temporal characteristics	articulation
enunciation (5)		2	1	1	5
intonation, pitch (4)	4				
rhythm, tempo (6)				6	1
resonance (5)	1	5	3		1
loudness (5)	1	2	5		2
timbre (2)		2			

References

[1] Welch, G. F., & Preti, C. (2018). Singing as Inter- and Intra--personal Communication. In G. F. Welch, D. M. Howard, & J. Nix (Ed.), The Oxford Handbook of Singing (pp. 369–392). Oxford University Press. [2] Kučera, M., & Frič, M. (2019). Vokologie I: Funkční diagnostika a léčba hlasových poruch. Akademie múzických umění v Praze.



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TECHNIKY