



SPRING 2023

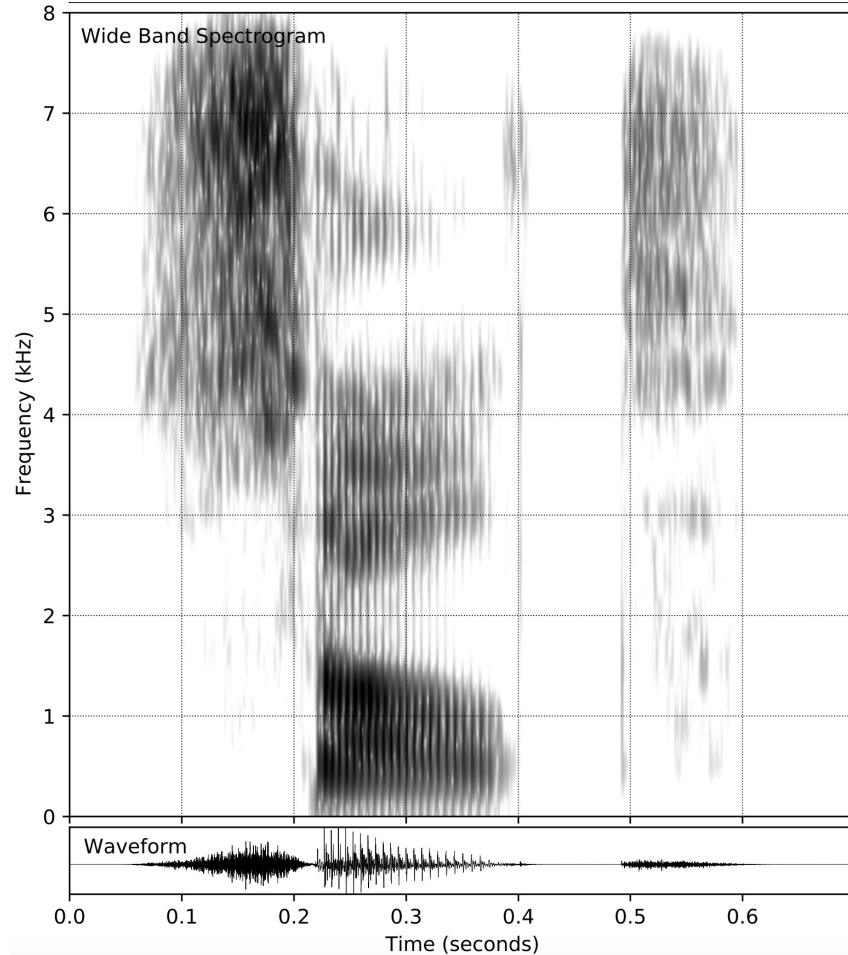
CS 378: INTRO TO SPEECH AND AUDIO PROCESSING

Spectrogram Reading

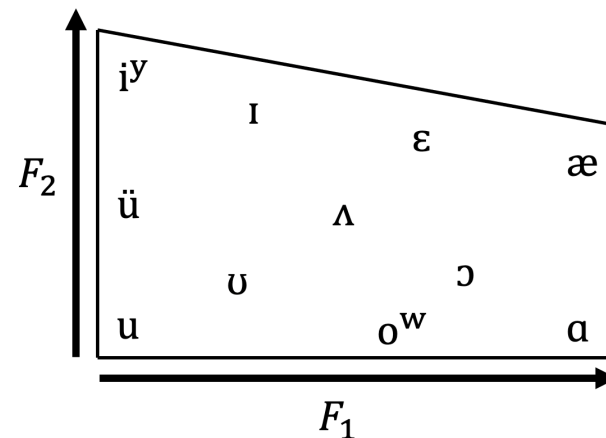
DAVID HARWATH
Assistant Professor, UTCS



The University of Texas at Austin
Department of Computer Science
College of Natural Sciences



(word)

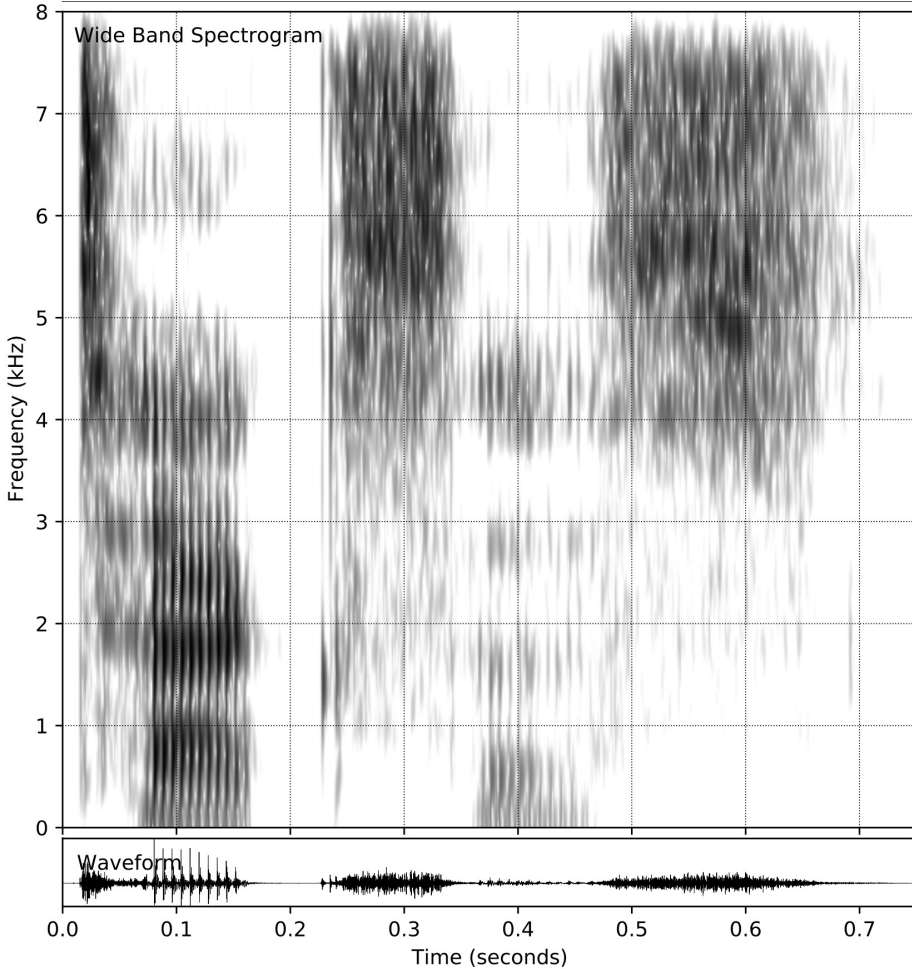


Manner

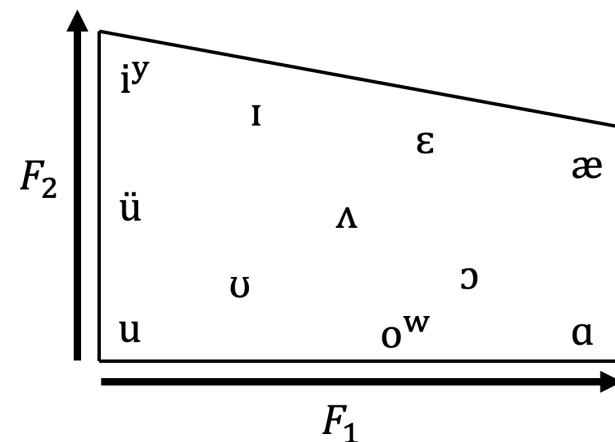
Place of Articulation

Labial Dental Alveolar Palatal Velar

Stop	p b		t d		k g
Fricative	f v	θ ð	s z	ʃ ʒ	
Nasal	m		n		ŋ



(word)

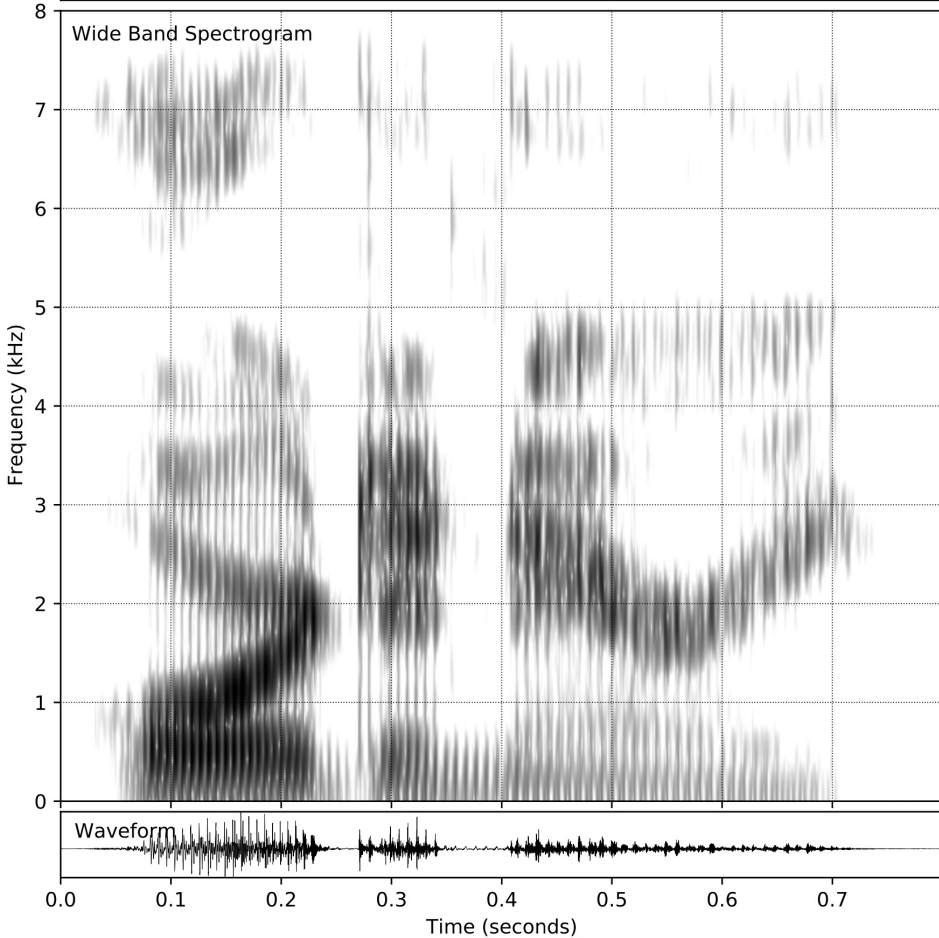


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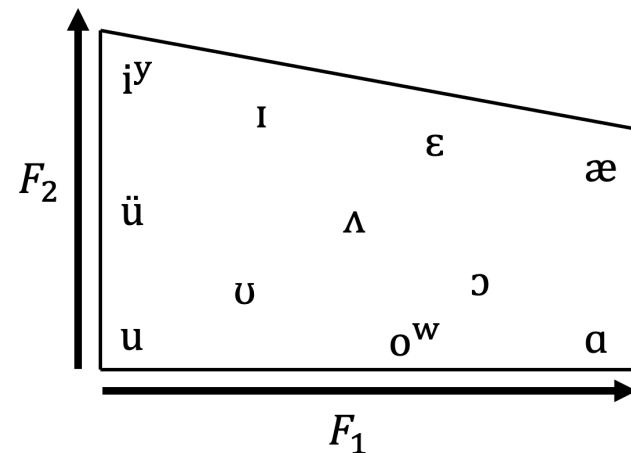
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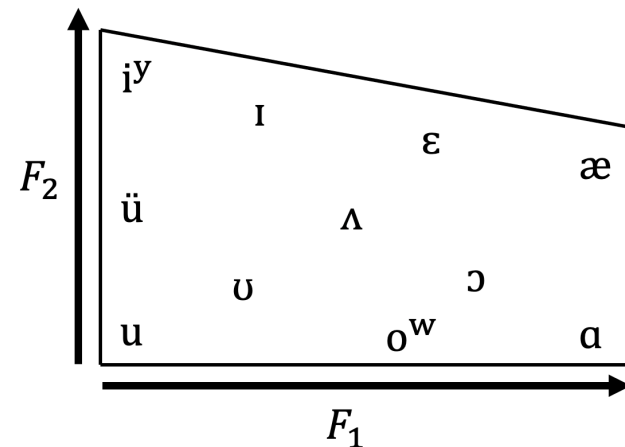
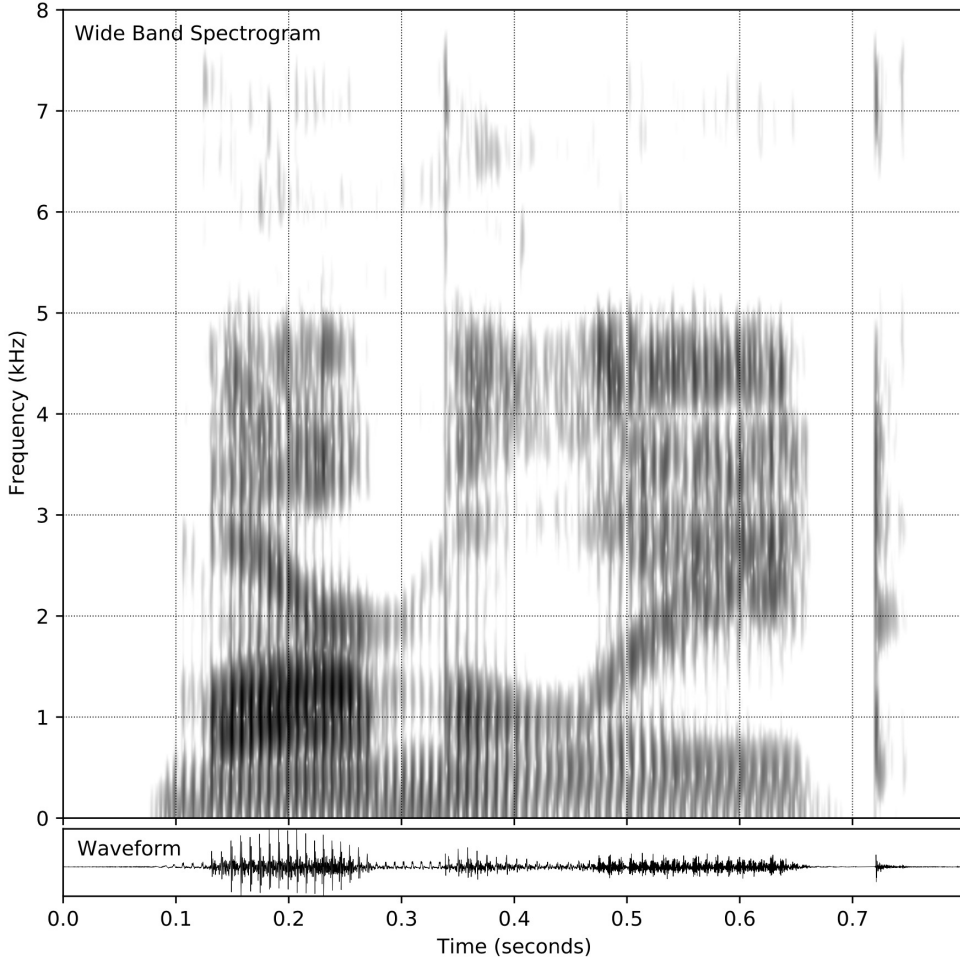


Manner

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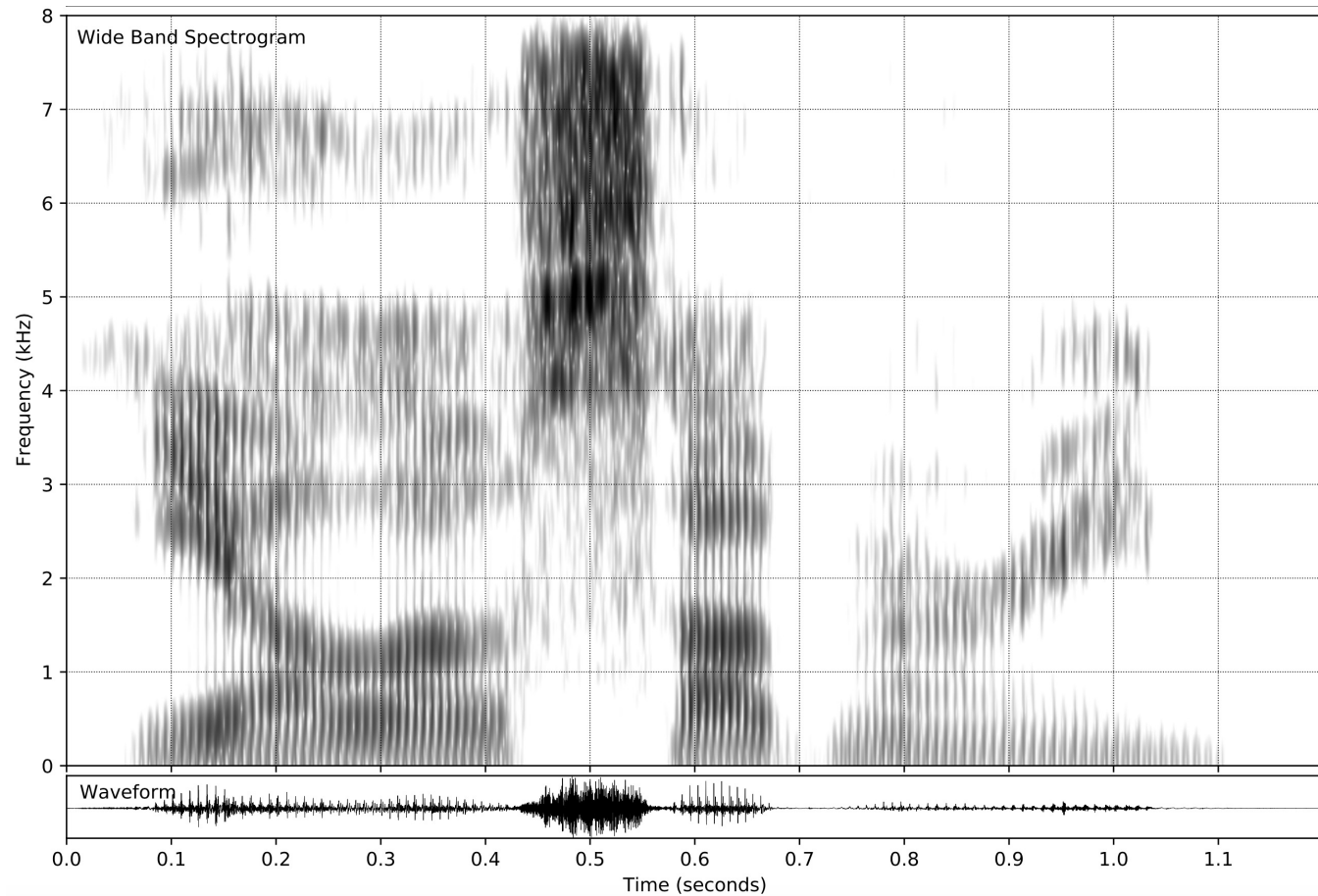


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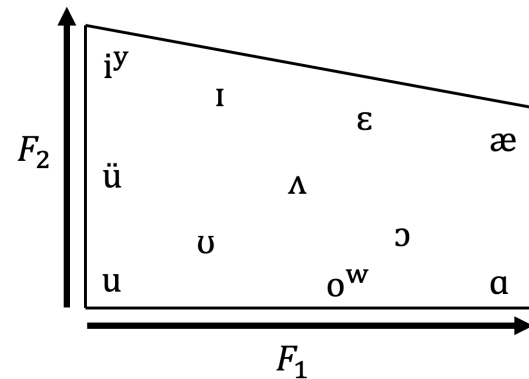
Place of Articulation

Labial Dental Alveolar Palatal Velar

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Fricative	f v	θ ð	s z	ʃ ʒ	
Nasal	m		n		ŋ



(phrase)



Manner

Place of Articulation

Labial Dental Alveolar Palatal Velar

Stop

p b

t d

k g

Fricative

f v

θ ð

s z

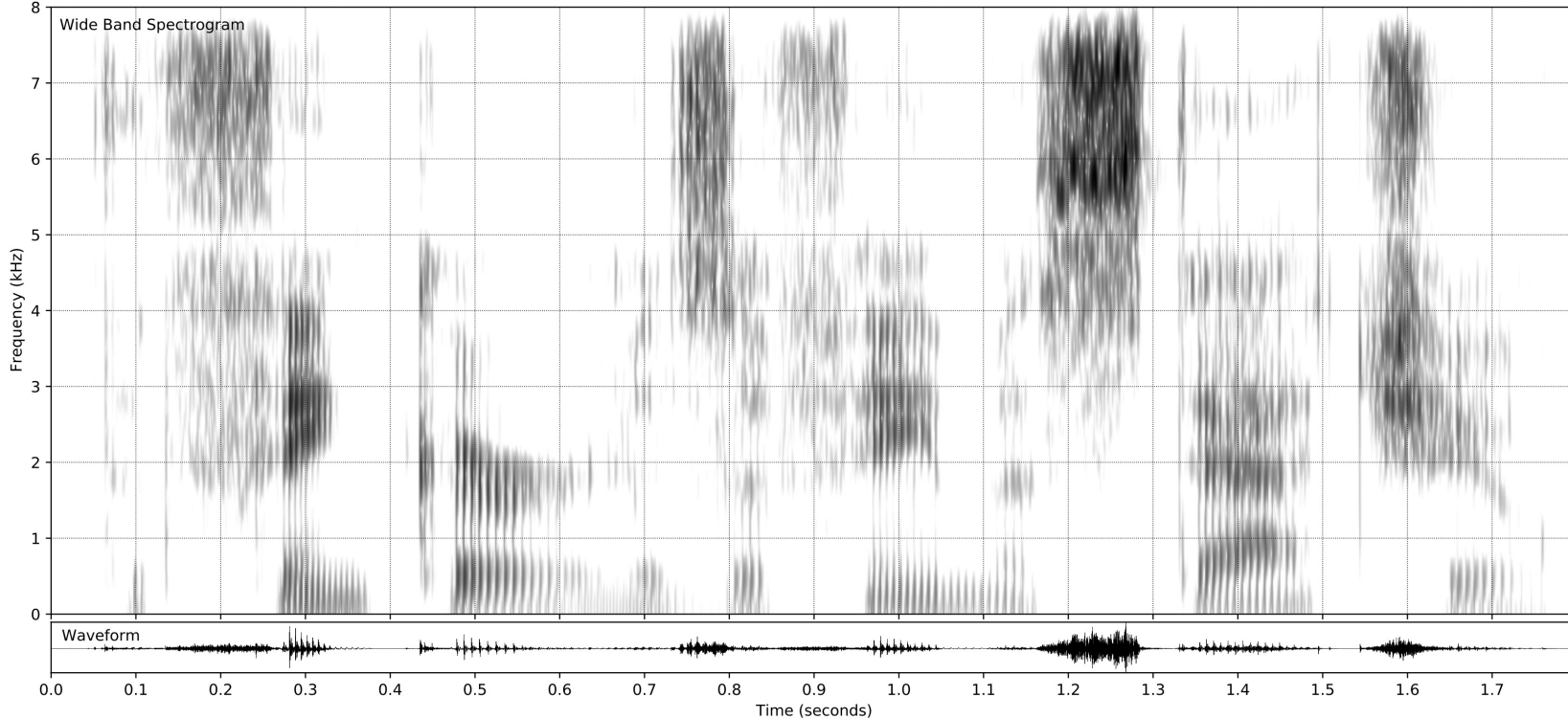
ʃ ʒ

Nasal

m

n

ŋ



(phrase)



	<u>Manner</u>		<u>Place of Articulation</u>				
	Labial	Dental	Alveolar	Palatal	Velar		
Stop	p b		t d		k g		
Fricative	f v	θ ð	s z	š ž			
Nasal	m		n		ŋ		

