Class 4: Non-prosodic analyses of Dutch and Italian

I. Italian

(1) Facts to be accounted for (see Class 3 handout for sources—mostly Nespor & Vogel, Peperkamp)

 $prefix_1 = disvllabic$, $prefix_2 = monosyllabic$

claimed prosody	(stem) (stem)	(stem)-(stem) (unless both are bound)	(prefix ₁)-(stem)	(prefix ₂ (stem))	(clitic (stem))	(stem)	(stem-suffix)	((word) clitic)
C.V	(ba)(r a.per.to)			(di (s-u.gua.le))			(fa.mo.s-is.si.mo)	
primary stress as diagnosed by	one	per stem	one on prefix, one on stem			stem only	y	
vowel length, legality of [ε] & [ɔ]	(s[á]lita) (ménte)	(t[5]sta)-(páne) (c[á:]po)-(p[6:]polo)	([é]kstra)-(coniugále) (p[á:]ra)-(milit[á:]re)	(r[ì]-(sal[á:]re))			(t[ò]sta-tóre)	((teléfona)-me-lo)
raddoppiamento sintattico (Central & Southern)	(tré) ([g:]réci)	yes (caffé)-([l:]átte)		no (pre ([g]réci))				yes ((dá) [m:]i)
intervocalic s-voicing		no		no, unless resyllabification	no		yes	no
(Northern)	(bella) ([s]era)	(pórta)-([s]igarétte)		(a-([s]ociále)) (di[z]-uguale)	(la ([s]iréna))	(a[z]ílo)	(cau[z]-áva)	((telefonáti) [s]i)
s-assimilation	no			yes		yes		
	(bi[s]) (lungo)			(bi[z]-(lungo))		([zg]onfio)		

Miscellaneous

- Total nasal assimilation applies only with *in-*, *con-*.
- Gapping facts are uncertain. Possibly the prefixes pro-, pre-, post-, multi-, micro-, super-, and iper- can gap, but in- and dis- can't.
- Additional s-voicing data: Krämer (2003) reports C +V voicing with the s-final prefix trans-: tran[z]-atlantico 'trans-Atlantic', cf. sen[s]o 'sense'. Mennella 1989² has [s] for these examples.

Martin Krämer (2003). Variation of s-voicing in two varieties of Italian. Ms., University of Ulster.
 Antonio Mennella (1989). Dizionario di ortografia e pronunzia. Milan: Armenia.

(2) Kiparskyan analysis—with rules or constraints ("rules" are in no particular order within each level)

ievei)				
attach suffixes				
bound+bound compounding				
prefixed words treated as unitary start here				
syllabify				
stress				
vowel length				
mid-vowel neutralization				
s-voicing				
true prefixation				
other compounding				
resyllabify				
secondary stress				
s-voicing', for resyllabified s only (would be consistent with Krämer's data)				
s-assimilation				
syntax: word concatenation				
resyllabify				
phrasal stress rules				
raddoppiamento				

(3) Stress

	(-)					
		t[ɔ]sta	pane	militare	t[ɔ]sta	tel[ɛ]fona
attach	suffix				t[ɔ]statore	
	syllabify	t[ɔ]s.ta	pa.ne	mi.li.ta.re	t[ɔ]s.ta.to.re	te.l[ɛ].fo.na
stem	stress	t[ś]s.ta	pá.ne	mi.li.tá.re	t[ð]s.ta.tó.re	te.l[é].fo.na
level	V length		p[á:].ne	mi.li.t[á:].re	t[ð]s.ta.t[ó:].re	te.l[é:].fo.na
	mid-V neutr.				t[ò]s.ta.t[ó:].re	
attach	prefixes,	t[ś]s.ta. _]	p[á:].ne	p[á:].ra.mi.li.t[á:].re		
compo	ound			(how did para- get stressed?)		
syntax	·		·			te.l[é:].fo.na me lo

(4) Raddoppiamento (Central, South)

		caffe	latte	grec-	da
attach s	uffix			greci	
stem	syllabify	caf.fe	lat.te	gre.ci	da
level	stress	caf.fé	lát.te	gré.ci	dá
ievei	V length			gré:.ci	
attach p	refixes, compound	caf.fé lá	it.te	pre gré:.ci	
word	resyllabify	caf.fé.lá	it.te	pre.gré:.ci	
level	secondary stress			prè.gré:.ci	
syntax	syntax				dá mi
post-	resyllabify				dá.mi
lexical	raddoppiamento (C, S)	caf.fé[l:]át.te	([è] is only 2ary-stressed)	dá[m:]i

(5) s voicing (North)

		porta	sigarette	sociale	uguale	asilo	caus	telefona
attach s	uffix						causava	telefonati
stem	syllabify	por.ta	si.ga.ret.te	so.cia.le	u.gua.le	a.si.lo	cau.sa.va	te.le.fo.na.ti
level	s-voicing (N)					a.[z]i.lo	cau.[z]a.va	
attach p	orefixes,	porta s	igarette	a so.cia.le	dis u.gua.le			
compou	ınd							
word	resyllabify	por.ta.s	si.ga.ret.te	a.so.cia.le	di.su.gua.le			
level	s-voicing' (N)				di.[z]u.gua.le			
syntax	_							te.le.fo.na.ti si

(Or, have *s*-voicing at stem level only, but attach *s*-final prefixes before stem level and other prefixes after. That account can't generate Krämer's *tran*[*z*]-atlantico cases, though.)

(6) s assimilation

		bis	lungo	lungo	sgonfio
attach suffix					
stem level	syllabify	bis	lun.go	lun.go	sgon.fio
attach prefix	es			bis lun.go	
word level	resyllabify			bis.lun.go	
wora ievei	s-assimilation			bi[z].lun.go	[z]gon.fio
syntax		bis lu	ın.go		

(7) Questions and shortcomings to discuss

Main stress on disyllabic prefixes

Do they have to pass through the stem level?

Bracketing paradoxes

 $[[ri[suddivis]_V]_V ione]_N$ 'resubdivision'—the morphology adds the prefix "first", but this grammar adds the suffix first.

s-voicing is messy—applies in two different levels Can it be improved?

II. Dutch

(8) Facts to be accounted for (see Class 2 handout for sources—mostly Booij)

prefix₂=prefixes lacking a full vowel suffix₁=suffixes that have a full vowel and are consonant-initial, plus *-achtig* suffix₂=the rest of the suffixes suffix₂=the rest of the suffixes (stem)-(stem) (stem)-(stem)-(stem) (stem)-(ste

	(stem)-(stem)	$(prefix_1)$ - $(stem)$	$(stem)$ - $(suffix_1)$	$(prefix_2$ - $(stem))$	(clitic(stem))	(stem)	$(stem-suffix_2)$	(stem-clitic)
C.V, with coda devoicing		yes					no	no, but can have devoicing
when applicable	(lan[t])(a.del)	(ont)(er.v-en)	(roo[t])(ach.tig)				(ro.[d]-ig)	hon.[t] aan (some frequent Vs: he.[b] ik)
stress		(strong)(weak)		((strong))		comp	olicated	
(B1995— many complications)	(lánd)-(àdel)	(ánti)-(hòuding) (except verbalizing suffixes: ont-móet)	(róod)-(àchtig)	(be-(ádem))				
syllabification	yes							
of CC respects morpheme boundaries	(lood)(spet) vs. (loods)(pet)							
$a \rightarrow \emptyset / _V$		optional				*eV	obligatory	
	mod[a]-opleiding	[baantvordan]	[xeid ə- axtəx]				(kade+en) → [kad_ən]	
long vowels	n	0					yes	
"colored" before /r/	(keu)-(ring)	(mee)-(reis-en)				(sm <u>e</u> ris)	(k <u>eu</u> r-ing)	
$s \rightarrow z /$		yes/optional					no	yes?(!)
[+voice] + V	(men[z])-(aap)	(mi[z])-(oogst)	(ij[z])-(achtig)			(ma[s]a)	(hij[s]-en)	het bo[z] in
degemination	optional?	optional	optional?			$*C_iC_i$	obligatory	
		(ver)-(rassen) → [ver:ɑsən]					(groot-te) $\rightarrow [\gamma rotə]$	
$t \rightarrow \emptyset / C _C$		optional				*CtC?	obligatory	
(roughly)	(vracht)-(wagen)	(ont)-(ploff-en)	(zicht)-(baar)				(klach ŧ -je)	
syllable-final		no	T			unless final	don't know	
coronal Cs	(heftst)-(kleuren)	(aa rts)-(bisschop)	(koorts)-(achtig)					
count towards max. syll. weight?								

superheavy syllables		OK?				if nonfinal, stress as compound if poss.	OK	
						(áal)(mòes) (expect àalmóes) (pín.ter)—t[ə]r	béem.d-en	
stem-final obstruent- liquid		no?				no	OK if suffix begins with a vowel	
sequences							(cele br -eer)	
$C_i ightharpoonup C_i$	OK					no	no—produces paradigm gaps	
	(formul[ə])-(lijst)						*(ka l-[ə]l ing)	
X-(A) Y-A		OK					illegal	
gapping	(wis) en (natuur)-(kunde)	(in) en (uit)-(voer)	(rood) of (groen)-(achtig)				*absurd en (banal-iteit)	
X-A (X)-B	OK			illegal				
gapping	(heren)-(schoenen) en(jassen)			*(be-(fiets-en)) oflop-en				
$V_1V_2 \rightarrow$] (or, less often, insert	glide)		insert [?]?	• if V ₁ =a, V ₂ mair	n-stressed, insert [?]	
	for (word) (word) sec		_		(limited data)	• if V ₁ =a, V ₂ not main-stressed, do nothing		thing
			, ,			1 27 2	• if V ₁ =[ə], delete V ₁	• if V ₁ =ə, block /n/-deletion or even insert n
						• else insert glide		
	(zee) -(arend) = $[ze?arent]$ or $[zejarent]$ de $vlo)_{\phi}$ [v](uit		(koe)-(achtig) [kuʔɑxtəx] or [kuvɑxtəx]		(je [ʔ](eet)) *(je [n](eet))	(pa[ʔ]élla) (cháos) (Édu[ų]ard)	zee+en [zejən]	(koch.t-e.n 't) (merkte 't) = [merktət] or [merktənət] (zie.[j] 't)

Miscellaneous

- Linking phonemes in compounds: (hon.[d]-e)-(brod) 'dog's food', (hond-e)-__ en (katt-e)-(brood) 'dog-(food) and cat-food'
- Some historically complex words act as a single domain for syllabification, and use glides for hiatus resolution: (tan.[d]arts), (re.[j]a.ge.ran)

(9) Kiparskyan analysis (again, rules or constraints; order within each level not crucial)

	alternations/operations	phonotactics enforced (no repair—just
		gaps)
	attacl	n suffix ₂
	some historically co	mplex words start here
	some frequent verb+	clitic combos start here
	hiatus resolution through [?], Ø, schwa	restrictions on syllable weight
	deletion, and glide insertion	restriction on stem-final obstruent-liquid
	degemination	sequence
Stem level	syllabify	*C _i əC _i
siem ievei	final devoicing	
	r-coloring	
	t-deletion	
	stress	
	attach	prefixes
	attacl	n suffix ₁
	com	pound
	compound stress	none?
	s-voicing (derived environments only)	
Word level	hiatus resolution through [?] insertion	
	syntax: cone	catenate words
	resyllabify across word-clitic boundary	none?
	optionally insert <i>n</i> at word-clitic boundary	
Postlexical	phrasal and higher stress	
1 ostiexicai	optional degemination	
	optional <i>t</i> -deletion	
	optional glide insertion	

(10) Stem-level alternations

		rood,	rood	hond	zijde	kade
attach s	uffix ₂		roodig			kadeen
	resolve hiatus					kaden
	syllabify	.rood.	.roo.dig.	.hond.	.zij.de.	.ka.den.
stem	final devoicing		.roo.[t]ig.	.hon[t].		
level	attach suffix ₁	.rood.achtig			.zij.de.achtig	
		(has achtig				
		been syllabified?)				
syntax				.hon[t]. aan		
post-	resyllabify across			.hon.[t] aan		
lexical	word-clitic boundary					

(11) More stem-level alternations

		rassen	groot	ploffen	klacht	keu	ring	keur
attach	suffix ₂		grootte		klachtje			keuring
stom	degemination		groo[t]e					
stem level	t-deletion				klachje			
ievei	r-coloring							k <u>eu</u> ring
attach	prefix ₁	ver.ra.ssen.		ont.plo.ffen				
compo	unding					keurir	ng	

(12) Word-level alternation

		ijs	hijs
attach suffix ₂	2		hijsen
stem level	syllabify	.ijs.	.hij.sen.
attach suffix ₁		.ijs.achtig	
word level	s-voicing	.ij[z].achtig	blocked by Strict Cycle Condition

(13) Stem-level phonotactics

Stem-level phonotactics

	•	heftst	kleur	"leftstme"	formula	lijst	kal	
attach suffix ₂			kleuren				kaleling	
	syllabification	.heftst.	.kleu.ren	.leftst.me.	.for.mu.la.	.lijst.	.ka.le.ling.	
stem level	syll size limit; final coronal	OK	OK	No!	OK	OK	OK	
	obstruents don't count			Crash.				
	*C _i əC _i	OK	OK	OK	OK	OK	No! Crash.	
compound		.heftst.kleu.ren.		XX	.for.mu.la.lijst.		XX	

(14) Hiatus resolution at various levels

	(11) Illutus resolution at various levels							
	·	zee	arend	eet	zee	zie	vlo	uit
attach suffix ₂					zeeen			
stem	resolve hiatus through [?], Ø, schwa				zee[j]en			
level	deletion, and glide insertion							
compound		zeearend						
word	hiatus resolution through [?] insertion	zee[?]arend						
level	_							
syntax				je eet		zie 't	vlo uit	
	maybe [?] insertion after schwas? (No			je[?]eet				
post-	data except for cliticized case)							
lexical	optional glide insertion (obligatory for]arend			zie[j] 't	vlo [1	v] uit
	enclitic?)	~ zee	[j]arend					

(15) Questions and shortcomings to discuss

Explaining affix classes

The prosodic account was able to explain why (except for *-achtig*) vowel-initial and full-vowelless suffixes pattern as a group. Here, we must stipulate it.

Prefixes that act like p-words

How to explain compound-like stress on prefix₁ (with classes of exceptions)? (\acute{anti}) - $(h\grave{o}uding)$ Must these prefixes (and mabye -achtig) to go through the stem level on their own?

Bracketing paradoxes (see B1995 p. 124) on-grammatical-iteit 'ungrammaticality' = [[on [grammaticaal]_A]_A iteit]_N Morphologically, the prefix attaches "first".

Pseudocompounds

Can we derive the compound-like stress of monomorphemic $(\acute{a}al)(m\grave{o}es)$, etc., as driven by syllable-weight phonotactics, etc., or must we say that it's a learning error?

Gapping—How does it work?

Linking phonemes

How do we get them to syllabify with the first element of a compound, and stay with it when the second member gaps?

Clitics

How do we get resyllabification to happen at word-clitic boundary, but not word-word boundary?

How do we account for hiatus resolution at word-clitic boundary? (From the data we have, I think we can't tell how different it really is from at word-word or clitic-word boundary.)

(16) Voicing in clitics (B1995 ch. 8)—how can we account for it?

Enclitics

```
Ik lee[s t]e krant ~ Ik lee[z d]e krant (< /...s d.../)
I read the paper

o[p t]ie manier ~ o[b d]ie manier (< /...p d.../)
in that way

Proclitics

'[k] ben '[t] begint
I am it begins
```

(17) Contractions (B1995 ch. 8)—what to say?

```
dat 'k
                                           'that I'
                      [dak]
dat je
                                           'that you'
                      [dajə]
dat ze
                                           'that she'
                      [dasə]
dat we
                                           'that we'
                      [davə]
moet 'k
                                           'must I'
                      [muk]
               \rightarrow
heb je
                      [h\epsilon i\vartheta] \sim [h\epsilon i]
                                           'have you'
```