Anti-Romance laryngeal patterns in Italian phonology

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Romance in Laryngeal Realism The framework

Laryngeal Realism (Iverson & Salmons 1995; Honeybone 2002, 2005; Petrova et al. 2006; Cyran 2011, 2014; Beckman et al. 2013; etc.)

Two-way laryngeal contrasts		
Voice languages	Aspiration languages	
Marked laryngeal feature: [voice] Opposition: [p t k] ~ [b d g] Fortis: voiceless unaspirated Lenis: voiced unaspirated (marked) Slavic and Romance languages, etc. Regressive Voice Assimilation: $vo\underline{dk}a \rightarrow vo[tk]a$ $foo\underline{tb}all \rightarrow foo[db]all$	 Marked laryngeal feature: [spread glottis] Opposition: [b d g] ~ [p^h t^h k^h] Fortis: voiceless aspirated (marked) Lenis: voiceless unaspirated Most Germanic languages, Chinese, etc. No active voice: vo<u>dk</u>a → vo[d k^h]a foo<u>tb</u>all → foo[tb]all 	

Romance in Laryngeal Realism Regressive Voice Assimilation (RVA)

- Romance languages are considered voice languages (Petrova et al. 2006, etc.)
- Due to the phonological activity of [voice] they exhibit RVA
- RVA: Obstruent assimilation for [voice] from the rightmost member of a cluster
- ▶ Devoicing: $/B/ + /T/ \rightarrow [PT]$
- ▶ Voicing: $/P/ + /D/ \rightarrow [BD]$

Romance in Laryngeal Realism Regressive Voice Assimilation (RVA)

Romance examples for RVA:

a) Word-internal voicing by RVA

(Port.) *Lisboa* [ʒb] 'Lisbon' (Mateus & D'Andrade 2000: 142) (Sp.) *fútbol* [ðB] 'football' (Colina 2006: 186) (Rom.) *totdeauna* [dː] 'always' (Wetzels & Mascaró 2001: 221)

b) Word-internal devoicing by RVA

(Sp.) obsoleto [ps] 'obsolete' (Colina 2006: 188)(Fr.) médecin [ts] 'physician' (Snoeren et al. 2006: 243)

Romance in Laryngeal Realism Regressive Voice Assimilation (RVA)

Romance examples for RVA:

c) Sandhi voicing by RVA

(Cat.) *cap dau* [bd] 'no dice' (Recasens 2014: 165) (Cat.) *gos bo* [zß] 'good dog' (Recasens 2014: 165) (Rom.) *aş vrea* [ʒv] 'I would like' (Wetzels & Mascaró 2001: 220)

d) Sandhi devoicing by RVA

(Fr.) *robe sale* [ps] 'dirty dress' (Snoeren et al. 2006: 243) (Port.) *dez patos* [[p] 'ten ducks' (Mateus & D'Andrade 2000: 145)

1. Romance in Laryngeal Realism 1.3 The case of Italian

- In Italian phonotactics /sC/ is the only obstruent cluster (Krämer 2009, etc.)
- /s/ undergoes a voicing process before voiced C: preconsonantal s-voicing
- The literature treats it as a form of RVA (Nespor 1993: 74-76; Bertinetto 1999: 271; Bertinetto & Loporcaro 2005: 134; Krämer 2009: 209; etc.)

a. /s/+voiceless obstr.	b. /s/+voiced obstr.	c./s/+sonorant
[sp] <i>aro</i> 'gunshot'	[zb] <i>arra</i> 'barrier'	[zm] <i>ettere</i> 'to stop'
<i>pa</i> [st] <i>a</i> 'pasta'	[zd] <i>egno</i> 'disdain'	[zn] <i>ello</i> 'thin'
<i>a</i> [sk] <i>oltare</i> 'to listen'	[zg] <i>abello</i> 'footstool'	[zl] <i>itta</i> 'sled'
[sf] <i>era</i> 'sphere'	[zv] <i>eglia</i> 'alarm clock'	[zr] <i>otolare</i> 'to unroll'

2. RVA vs. It. preconsonantal s-voicing

	RVA	Preconsonantal s-voicing
Input:	Any obstruent	Only sibilant fricatives
Trigger:	Segments with distinctive voice (obstruents)	Voiced consonantal segments (even sonorants and glides)
Domain:	The utterance (postlexical)	The phonological word (lexical)
Occurrence:	Obligatory	Optional (except word- initially)

- Only sibilant fricatives may undergo voicing
- Mostly /s/ and palatalised sibilants in regional accents, e.g. (Central-Southern Italian) *sbirro* [3b] 'policeman', *sviluppo* [3v] 'development', *asma* [3m] 'asthma', etc. (Huszthy 2017: 197)
- Moreover, /ʃ/ in loanwords of Standard Italian, e.g. kalashnikov [ʒn], krishna [ʒn], etc. (Huszthy 2019: 104)
- In non-/sC/ obstruent clusters RVA does not take place, e.g. afgano 'Afghan', substrato 'substrate', abside 'apse', feldspato 'feldspar' and tungsteno 'tungsten' (Muljačić 1972: 91)
- Huszthy (2019) aims to definitely point out that Italians do not apply RVA in loanwords or in their foreign accent





Cluster type	Target word	Most typical realisation
DT	sudcoreano 'South Korean'	[sudkore'a:no]
	subcultura 'subculture'	[subkulˈtuːra]
	ragtime	[regˈtajmə]
	Südtirol 'South Tyrol'	[sudtiˈrɔlːə]
TD	McDonald's	[mekˈdɔːnald]
	upgrade	[apˈɡrejdə]
	football	[ˈfutbalːə]
	Sampdoria	[samp'dɔːrja]
C + fricative	gangster	[ˈgaːŋgster]
fricative + C	abside 'apse'	['aːbside]
	Afganistan 'Afghanistan'	[afˈˈgaːnistan]
	sovkhoz	['sɔːvkod͡z]
C + affricate	eczema	[ek [·] ˈd͡zɛːma]

- 15 Italian speakers
- 19 sample texts
- 51 target words for RVA
- 1685 obstruent clusters
- 1096 No RVA
- 246 RVA
- 155 progressive devoicings (PD)
- 188 other cases (e.g. deletion)

2. RVA vs. It. preconsonantal s-voicing2.2 The trigger

- RVA may only arise between consonants contrastive for [voice], namely obstruents
- In Italian, sibilant fricatives may undergo voicing before any consonantal segment, sonorants and glides included
- ▶ In Italian we find presonorant voicing, e.g. *a*[z]*ma*, [z]*nob*, etc.
- Some phonologists analyse presonorant voicing as basically phonetic (passive voicing), and only partly systemic (Cyran 2011, 2012, 2014)
- Furthermore, in Italian /s/ often gets voiced before the glide /w/ in loanwords like *swimming* [zw], *suite* [zw], *swing* [zw], etc. (Huszthy 2019: 104-105)

2. RVA vs. It. preconsonantal s-voicing2.3 The domain of application

- RVA found in voice languages is typically a postlexical process, viz., "it applies across any type of boundary as long as no pause intervenes" (Siptár & Törkenczy 2000: 198)
- The domain of application of RVA is the phonological utterance (Nespor & Vogel 1986: 229-230)
- Italian preconsonantal s-voicing does not take place at the word boundary, e.g. (It.) rebus difficilissimo [sd] 'a very hard riddle', (It.) autobus bianco [sb] 'white bus' (Nespor 1993: 74); lapis blu [sb] 'blue pencil' (Bertinetto 1999: 271)
- Sometimes s-voicing is blocked at morpheme boundaries as well, for instance, at the edge of compound words, e.g. gasdotto [sd] 'pipeline' (Bertinetto 1999: 280), facebook [sb], iceberg [sb] (Huszthy 2019: 99); etc.

2. RVA vs. It. preconsonantal s-voicing 2.4 Occurrence

- RVA, being postlexical, is considered obligatory, i.e., exceptionless
- Preconsonantal s-voicing is consistent word-initially in Italian; however, it appears to be optional word-internally
- E.g., the (Eng.) loanword slash is regularly pronounced by Italians with [z], but in the compound word backslash the voicing process in the same cluster is optional
- s-voicing is optional in new loanwords as well, like in *iceberg* [sb]/[zb], facebook [sb]/[zb], frisbee [sb]/[zb], baseball [sb]/[zb], etc. (Huszthy 2019)
- In conclusion, preconsonantal s-voicing seems a tendency rather than a "rule" in the synchronic phonology of Italian

Prevoiced initial lenis stops [b, d, g]

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- Mildly aspirated initial fortis stops (Huszthy 2019)

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- Phonological opposition upon the [voice] feature

Contrastive obstruents	Minimal pairs illustrating Italian obstruent voice-oppositions
/b/~/p/	a) <i>balla</i> ['balːa] 'to dance, 3sg' vs. <i>palla</i> ['palːa] 'ball'
/d/~/t/	c) denti ['dɛnti] 'tooth, pl.' vs. tenti ['tɛnti] 'to attempt, 2sg'
/g/~/k/	e) gara ['gaːra] 'race' vs. cara ['kaːra] 'dear, fem.'
/d͡ʒ/~/t͡ʃ7	g) giro [ˈd͡ʒiːɾo] 'turn' vs. Ciro [ˈt͡ʃiːɾo] 'first name'
/v/~/f/	i) vede ['ve:de] 'to see, 3sg' vs. fede ['fe:de] 'faith'

- Prevoiced initial lenis stops [b, d, g]
- Mildly aspirated initial fortis stops (Huszthy 2019)
- Phonological opposition upon the [voice] feature
- The lack of RVA in non-/sC/ obstruent clusters (no true laryngeal activity)
- Morphologically conditioned optional voicing in /sC/ clusters

Synchronic Italian laryngeal phonology Discussion

- Cyran's Laryngeal Relativism: "Sufficient discriminability" in production and perception is a major driving force in the phonetic implementation of phonological contrasts (Cyran 2011, 2014, 2017)
- "Swedish goes for maximal dispersion rather than for sufficient phonetic distance" (Cyran 2017: 502)
- Italian: the phonetic distance between lenis and fortis is more than sufficient, but not as extreme as in Swedish
- Three subtypes L in the marked series of obstruents (e.g. voice languages); h-systems: the absence of a source element (e.g. aspiration languages); H in the marked series of obstruents (e.g. Cracow Polish) of binary laryngeal systems
- This three-way typology, combined with Cyran's "sufficient discriminability", accommodates Italian and Swedish as h-languages

Conclusion

- Italian exhibits substantial voicing in lenis obstruents
- The fortis set is basically voiceless mildly aspirated
- No true laryngeal activity is detected (RVA)
- The "devoicing processes" (PD, RVA in DT-clusters) are not processes, since the voiceless forms are not derived but underlying
- Actually, Italian is a kind of Swedish

Thank you for your kind attention!

References

- **Baković**, E. (2005). Antigemination, assimilation and the determination of identity.
- Balogné Bérces, K. & D. Huber. (2010). [Voice] and/versus [spread glottis] in the modified Leiden model
- **Beckman**, J., M. Jessen & C. Ringen (2013). Empirical evidence for laryngeal features: Aspirating vs. true voice languages.
- Bertinetto, P. M. (1999). Boundary strength and linguistic ecology (mostly exemplified on intervocalic /s/-voicing in Italian).
- **Bertinetto**, P. M. (2004). On the undecidable syllabification of /sC/ clusters in Italian: Converging experimental evidence.
- **Colina**, S. (2006). Optimality-theoretic advances in our understanding of Spanish syllable structure.
- **Cyran**, E. (2011). Laryngeal realism and laryngeal relativism: Two voicing systems in Polish.
- **Cyran**, E. (2014). Between Phonology and Phonetics: Polish Voicing.
- **Honeybone**, P. (2002). Germanic Obstruent Lenition: Some Mutual Implications of Theoretical and Historical Phonology.
- **Honeybone**, P. (2005). Diachronic evidence in segmental phonology: The case of obstruent laryngeal specifications.
- **Huszthy**, B. (2019). How can Italian phonology lack voice assimilation? Phd dissertation.
- **Iverson**, G. K. & J. C. Salmons (1995). Aspiration and laryngeal representation in Germanic.
- Krämer, M. (2009). The Phonology of Italian.
- Mateus, M. H. & E. D'Andrade (2000). The Phonology of Portuguese.
- Muljačić, Ž. (1972). Fonologia della lingua italiana.
- Petrova, O., R. Plapp, C. Ringen & Sz. Szentgyörgyi (2006). Voice and aspiration: Evidence from Russian, Hungarian...
- **Recasens**, D. (2014). Coarticulation and Sound Change in Romance.
- Siptár, P. & M. Törkenczy (2000). The Phonology of Hungarian.
- **Wetzels**, L. & J. Mascaró (2001). The typology of voicing and devoicing.