(R) we there yet? The state of coda /r/vocalization on the Lower East Side of Manhattan

KARA BECKER
KATHLEEN ASTON
REED COLLEGE
NEW WAYS OF ANALYZING VARIATION (NWAV) 41
OCTOBER 26, 2012

The restoration of coda /r/ in North America

The South: Rapid advancement, change complete for young white speakers (Feagin 1987; Labov, Ash and Boberg 2006: 47)

The North: No advancement (New England) or slow advancement (NYC)

NYCE /r/is:

- Slow
 - o "Under pressure from of the new r-pronouncing norm, New York City speech is changing slowly" (Labov 1994)
 - o "[r-1] is not steamrolling its way into LMC speech as Labov predicted" (Fowler 1986)
- Formal
 - o /r/ is "Primarily a feature of formal speech: a superposed dialect." (Labov, Ash & Boberg 2006)
 - O "The effect of the new prestige norm was not to modify the vernacular of most New Yorkers, but rather to produce variable behavior in formal situations." (Labov, 1994: 89-90)

/r/'s advancement is slow

• Rapid anonymous data (Labov 1966; Fowler 1986; MacDonald 1984; Mather 2011). The percentage of speaker who produce all [r-1], by department store

	1962	1986	Increase 1962-86	% yearly growth (24 years)	2009	Increase 1962-2009	% yearly growth (47 years)
Saks	30	39	30%	1.25%	54	80%	1.7%
Macy's	20	24	20%	.83%	43	115%	2.45%
Klein's/May's	4	7	75%	3.13%	5	25%	.53%
Total	21	28	33%	1.39%	48	128%	2.7%

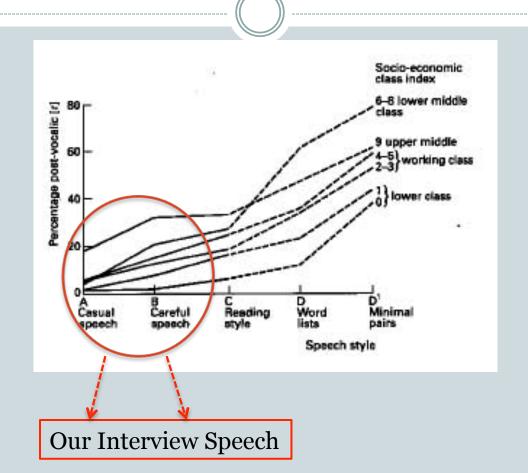


Carmella, department store study participant?

Community Study (Labov 1966, 1972; Becker 2009)

	1962: Lower middle class, aged 40+, careful speech	2006: Lower middle class, middle-aged, interview speech	Percent Increase, 1962-2006	Percent Increase per year (44 years)	
Mean [r-1]	21	55	162%	3.7%	

/r/ is formal

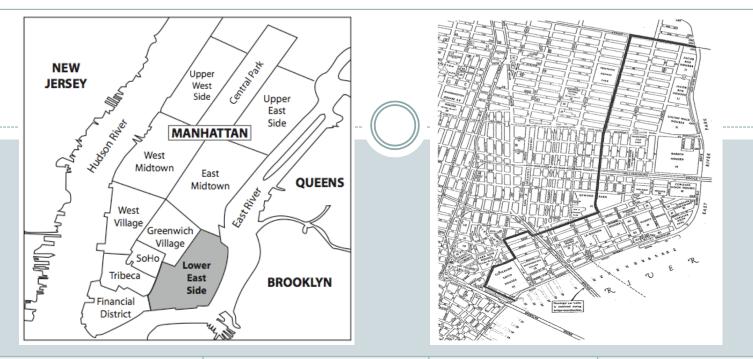


Coda /r/ and Ethnicity

- African Americans and /r/
 - o Labov (1966)
 - O Labov (1966) Department Store
 - Fowler (1986)
 - o Mather (2011)
 - O Nagy and Irwin (2011)

In all of these studies, African American speakers use lower rates of [r-1] than their white counterparts

- O Blake and Shousterman (2010): African American New Yorkers use lower rates of [r-1] than West Indian New Yorkers
- Speakers of other non-white ethnicities and /r/-?



Year of Birth	1924-1951		1952-1973		1974-1990		
	F	M	F	M	F	M	
African American	2	2	2	2	2	1	11
Chinese	1	0	1	2	2	3	9
Jewish	3	3	2	4	2	1	15
Puerto Rican	2	3	4	3	3	1	16
White	3	3	3	2	1	2	14
Total	22		25		18		65

Auditory Coding of /r/

- Initial ratings of
 - o /r/ constriction, or [r-1]
 - o /r/ vocalization or /r/ deletion, or [r-o]
 - o unclear
- Two coders working independently
- Agreement rate of 95%; a third coder resolved the remaining 5% of tokens.
- Resulting response variable (binary): [r-1] or [r-0]
- A total of 19,149 tokens of /r/ (average 295 per speaker)

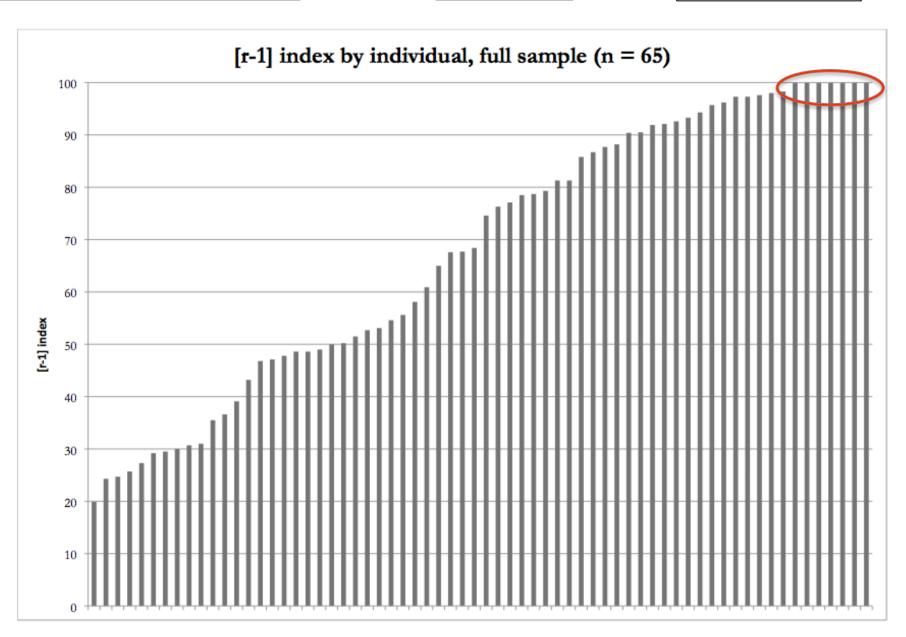
Overall [r-1] index: [r-68]



Abe, [r-56]



Damaris, [r-91]



Internal Explanatory Factors

Syllabic Stress

Lexical/Functional

Number of Syllables

Lexical Frequency

Following Environment

- Word-final, preceding a vowel ("the bear is")
- Word-final, preceding a consonant ("the bear cub")
- Word-final, preceding a pause ("the bear")
- Morpheme-final, preceding a consonant in same syllable ("bears")
- Morpheme-final, preceding a consonant in next syllable ("boredom," "wonderful")
- Morpheme-internal ("beard," "normal")

Preceding Context

- BEER
- BEAR
- BORE
- BAR
- BURR

External Explanatory Factors

Year of birth (continuous)

Gender (M, F)

Ethnicity (African American, Chinese, Jewish, Puerto Rican, White)

Socioeconomic Status: Class scores based off of education, occupation, and housing type (range 4-19) collapsed into five class ranks:

Lower Class

Lower Working Class

Upper Working Class

Lower Middle Class

Upper Middle Class

Generation Status (1.5 – 4)

Place Ideology (1-5)

Interactions:

- Year of Birth: SES
- Year of Birth: Ethnicity
- Year of Birth: Gender
- SES: Gender
- SES: Ethnicity

Significant Internal Factors

Best Run, One	Best Run, One Level (Significant Internal Factors)									
Deviand	се	Degrees of Freedom	Grand Mean							
12951.5	56	37	-2.297			0.678				
Random Effects of Speaker (SD = 1.713 and Word (SD = 1.439)										
Factor	Levels			[r-1]	N	Log odds	Factor Weight			
Following	Word-fin	al, preceding a vowel		77	2366	1.245	.776			
Context	Morpher	me-internal		78	6582	.588	.643			
(p < 9.51e-	Word-fin	al, preceding a pause		71	2207	.571	.639			
138)	Morpher	ne-final, following consonan	t in same	61	2010	451	.389			
	syllable									
	Word-fin	al, preceding a consonant	54	4702	706	.33				
	Morpher	ne-final, following consonan	t in next syllable	53	1282	-1.247	.223			
Preceding	BURR			69	10793	1.567	.827			
Phonological *	BEER			68	1326	.108	.527			
Context	BAR			74	2422	305	.424			
(p < 5.91e-	BEAR			64	1339	490	.38			
47)	BORE			62	3269	880	.293			
Syllabic	Stressed	<u> </u>	75	10794	.989	.729				
Stress	Unstressed				8355	989	.271			
(p < 2.74e-										
35)										
Lexical	Lexical			69	14480	.194	.548			
(0.0148)	Function	nal		64	4669	194	.452			

Significant Social Factors

• Year of Birth: Ethnicity (p = 0.00024)

Year of Birth [main effect]

Ethnicity [main effect]

• Gender: Class Rank (p = 0.0145)

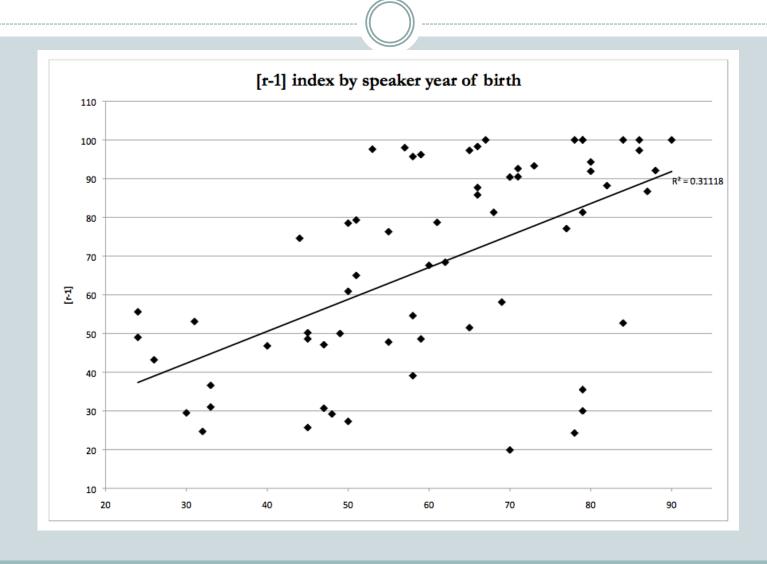
Gender [main effect]

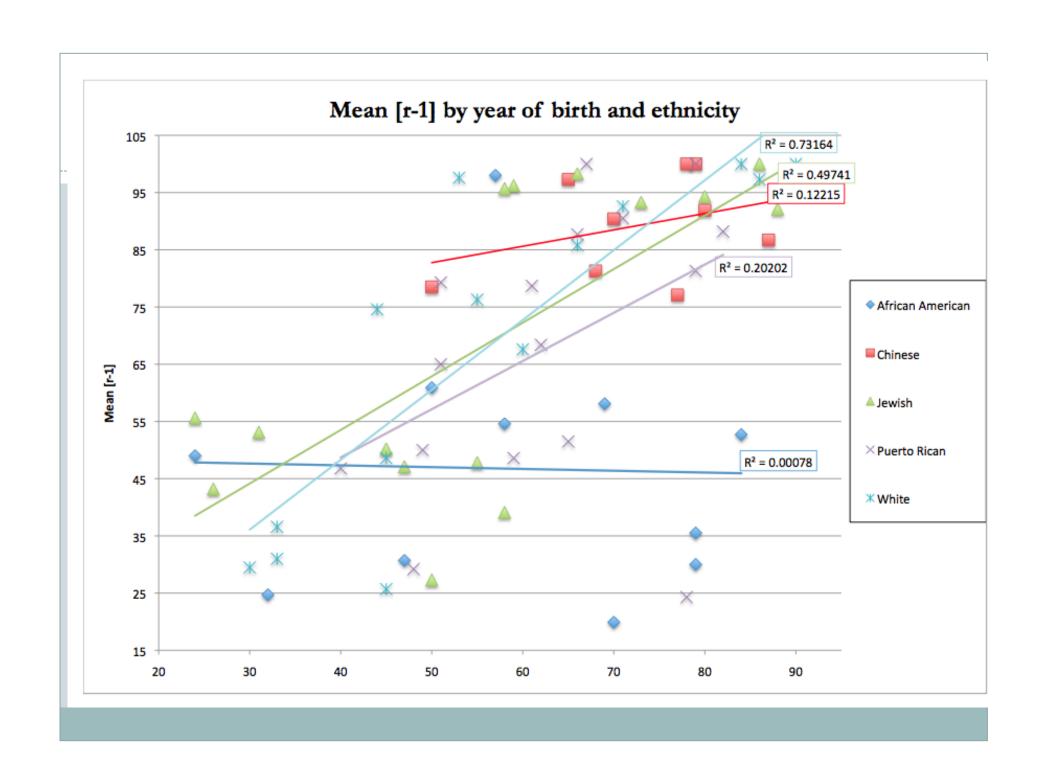
Class Rank [main effect]

• Generation Status (p = 0.00224)

Full Model: SPEAKER [random] and word [random] and Following Context (8.61e-138) + Preceding Context (7.59e-47) + Syllabic Stress (3.12e-35) + Year of Birth: Ethnicity (0.00024) + Generation Status (0.00224) + Lexical (0.0142) + Gender: Class Rank (0.0145) + Gender [main effect] + Ethnicity [main effect] + Class Rank [main effect] + Year of Birth [main effect].

(Deviance = 12951.56, df = 37; intercept = -2.297; grand mean = .678)



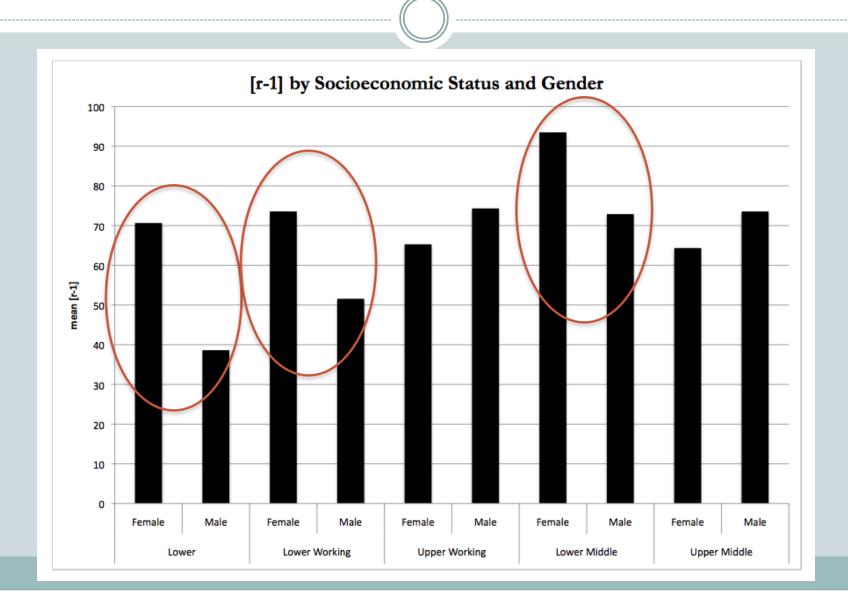


Gender and Class Rank as main effects

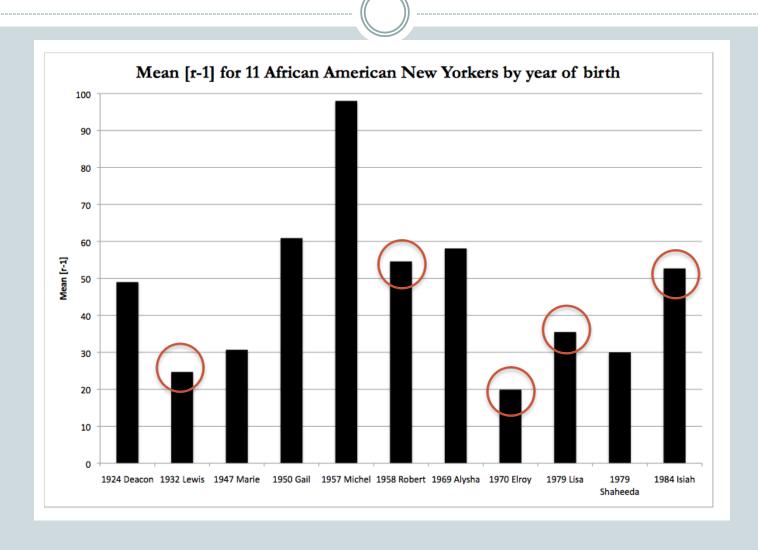
Factor	Level	[r-1]	N	Log odds	Factor Weight
Gender	Women	74	9647	.739	.677
	Men	61	9502	739	.323

Factor	Level	[r-1]	N	Log odds	Factor Weight
Class	Lower Middle	84	3268	1.123	.754
	Upper Middle	71	2082	.530	.63
	Upper Working	70	4676	.423	.604
	Lower Working	66	5291	-1.032	.263
	Lower	53	3832	-1.043	.261

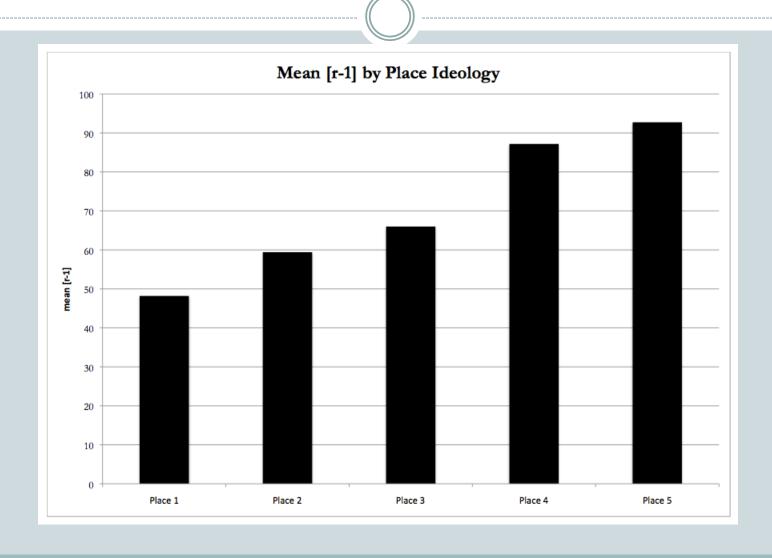
Gender and Class Rank



African Americans

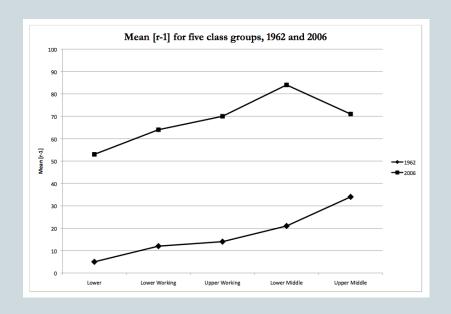


Operationalizing Place Ideology



Quantifying /r/'s increase

	1962	2006	Increase 1962-2006	Percent Yearly Growth (44 years)
Working Class	5	53	212%	4.8%
Lower Working Class	12	65	442%	10%
Upper Working Class	14	70	400%	9.1%
Lower Middle Class	21	84	300%	6.8%
Upper Middle Class	34	71	109%	2.5%



- •"slow" to... not slow?
- Lower Middle Class leads [r-1] production in interview speech, but not rate of increase compared to 1962 other class groups are catching up

Conclusion

- Internal factors that predict [r-1]: preceding and following context, syllabic stress, and lexicality
- Social factors that predict [r-1]: Year of birth in interaction with ethnicity; Gender in interaction with class; Generation status.
- Change is no longer slow, no longer formal
- Change in progress found for four ethnic groups white, Jewish, Puerto Rican, and Chinese Lower East Siders

THANK YOU!

Please email us with questions or for copies of these slides:

kbecker@reed.edu

kaston@reed.edu

Special thanks to: Laura Leibman, Hannah Kosstrin, Ely Fernandez-Collins, Daniel Ezra Johnson, members of the Reed linguistics department, and Oliver Binkley.

References

- Becker, Kara. 2009. /r/ and the construction of place identity on New York City's Lower East Side. *Journal of Sociolinguistics* 13 (5): 634-658.
- Blake, Renée and Cara Shousterman. 2010. Second generation West Indian Americans and English in New York City. *English Today* 103 (26): 35-43.
- Feagin, Crawford. 1990. The dynamics of a sound change in Southern States English: From R-less to R-ful in three generations. In Jerold A. Edmondson, Crawford Feagin and Peter Muhlhausler (eds.) Development and Diversity: Language Variation across Time and Space. Arlington, Texas: The Summer Institute of Linguistics and the University of Texas at Arlington. 129–145.
- Fowler, Joy. 1986. The social stratification of (r) in New York City department stores, 24 years after Labov. Unpublished manuscript, New York University, New York City, New York.
- Johnson, Daniel. 2009. Getting off the GoldVarb standard: Introducing Rbrul for mixed-effects variable rule analysis. *Language and Linguistics Compass* 3/1, 359-383
- Labov, William. 1966. The Social Stratification of English in New York City. Washington, D.C.: Center for Applied Linguistics.
- Labov, William. 1972. Sociolinguistic Patterns. Philadelphia, Pennsylvania: University of Pennsylvania Press.
- Labov, W., Ash, S., & Boberg, C. (2006). *The Atlas of North American English: Phonetics, Phonology, and Sound Change*. Berlin: Walter de Gruyter.
- Mather, Patrik-André. 2011. The social stratification of /r/ in New York City: Labov's department store study revisited. *Journal of English Linguistics*.