## Some reactions to Bybee 2001 ch. 6, perhaps not rising to the level of counteranalysis

(1) What's the prosodic take on Spanish $s \rightarrow h$ ?

Argentinean Spanish (earlier stage):

$$
\begin{array}{lll}
\text { _\#\#C } & \text { vs. } & \ldots \# \mathrm{~V} \\
]_{\mathrm{C}}
\end{array}
$$

Looks like an utterance-span rule/constraint:

$$
s \rightarrow h / \varnothing / \xlongequal[\ldots-\mathrm{C} \ldots]{\mathrm{U}} \quad \text { or } \quad{ }^{*}(\ldots \mathrm{sC} \ldots)_{\mathrm{U}}
$$

Cuban Spanish (later stage):


Add a word-juncture, utterance-span rule/constraint, weaker than the above:


Depending on one's theory of how optional rules and variably-ranked constraints work, one might predict an additive effect for the __\#\#C environment, which is now subject to two rules promoting debuccalization. But in this case, rate of $s / \ldots \mathrm{C}$ is already so low that $s$ /__\#\# can't be much lower.
(2) Boersmian stochastic constraint ranking, using Hayes \& al.'s OTSoft With these constraints, it's easy to model the rates of $s$. The trade-off between $h$ and $\emptyset$ is harder, though. Bybee (at least in the summary-I haven't read the original paper) doesn't have a story either.
(3) Comparison of grammars

| Argentinean | Cuban |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 104.684 | $*(\ldots \mathrm{sC} \ldots)_{\mathrm{U}}$ | ${ }^{2}(\ldots \mathrm{sC} \ldots)_{\mathrm{U}}$ | 101.132 |


(4) Comparison of results-next page

Ling 215A/B: proseminar on the prosodic word





## (5) Assessment-does the prosodic approach buy us anything here?

Not really, IMO. Bybee's offering an explanation of why any rules should refer to the word juncture (and other-domain junctures), which was just a stipulation for Selkirk: the word juncture is "a location in which a portion of a word comes in contact with a variety of phonetic contexts" (p. 143) and thus is subject to phonetic variation, with possible phonologization.

But in these examples, syntactic-word juncture = prosodic-word juncture. What about cases where there's a mismatch? Does the prosodic approach buy anything there?

Assume that the application of certain rules at certain morpheme junctures has led the analyst to posit p-word junctures there.

- stem-stem boundary in compound: plausible that a morpheme could participate in more compounds (and thus occur in more environments) than it does affixed words
- prefix vs. suffixes: Say that the rule applies at the prefix-stem juncture, but not the stemsuffix juncture (are there any such rules??). If there's a Bybeean explanation, it would have to be true that if the potential target is...
(pseudo-Spanish)

| (i) | $\ldots$ before the boundary <br> $($ de $\boldsymbol{\emptyset}+$ cafeinado, but atmos $+d a d)$ | each prefix combines with more stems than <br> each stem combines with suffixes (plausible) |
| :--- | :--- | :--- |
| (ii) | ..after the boundary <br> $(r e+\boldsymbol{d}$ cir, but pomposi $+\boldsymbol{d} a d)$ | each stem combines with more prefixes than <br> each suffix combines with stems (implausible) |

And what about the unnatural pattern, where the rule applies only at the stem-suffix juncture? Then, if the target is...

| (iii) | $\ldots$ before the boundary <br> $($ des + cafeinado, atmo <br> $+d a d)$ | each stem combines with more suffixes than <br> each prefix combines with stems (implausible) |
| :--- | :--- | :--- |
| (iv) | $\ldots$ after the boundary <br> $(r e+$ ducir, pomposi $+\boldsymbol{\partial} a d)$ | each suffix combines with more stems than <br> each stem combines with prefixes (plausible) |

So the straight prosodic story, with a left-edge preference, predicts that (i) and (ii) should be good. The straight Bybeean story predicts that (i) and (iv) should be good.

