

## THE UNIVERSITY OF UTAH

## 2022 LSA Annual Meeting

# **DEPARTMENT OF LINGUISTICS**

## **Persian Hiatus Resolution**

- Hiatus at morpheme boundaries is optionally resolved via epenthesis or deletion of the suffix-initial V (Ariyaee & Jurgec 2020):
- /baba-emun/  $\rightarrow$  [babaemun  $\sim$  babamun  $\sim$  baba?emun] 'our dad' (1) $\rightarrow$  [babae]  $\sim$  baba]  $\sim$  baba?e] /baba-e∫/  $\rightarrow$  [babaæm  $\sim$  babam  $\sim$  baba?æm] /baba-æm/
- Deletion is strongly disfavored if it would eradicate the suffix (REALIZEMORPHEME (RM; Kurisu 2001)):
- (2) /baba-e/  $\rightarrow$  [babae  $\sim$  ???/\*baba  $\sim$  baba?e] 'the dad'
- In the absence of hiatus, Root + Suffix emerges unchanged:
- (3)  $/dæftær-emun/ \rightarrow [dæftæremun]$  'our office'
- McCarthy (2008): Deletion must occur over several steps:  $e \rightarrow V \rightarrow \emptyset$

### My Argument

- A serial Noisy Harmonic Grammar analysis is possible only with modifications to both NOHIATUS and RM.
- NOHIATUS must be satisfied by less than complete deletion of a vowel.
- RM must assign violations before a morpheme is fully eradicated.
- The importance of timing: In a gradual framework, the point at which a constraint is satisfied/violated has ramifications for the success of the derivation.

## **Noisy HG & NOHIATUS**

- •Noisy HG (NHG; Boersma & Pater 2016): constraint weights are perturbed before each evaluation, creating variation in the output.
- Gradual deletion requires Serial NHG (SNHG): weights are perturbed at each step.
- Constraints:
- NOHIATUS drives deletion/epenthesis.
- REALIZEMORPHEME discourages deletion in /baba-e/.
- -HAVEPLACEV penalizes placeless vowels, motivating  $V \rightarrow \emptyset$ .
- -HAVEPLACEC penalizes [?], hence penalizes epenthesis.
- -Faithfulness: MAXV, DEPV, MAXC, DEPC, MAXVPLACE, DEPVPLACE \* Not used here: DEPCPLACE (dominates everything)

### **Modified NOHIATUS**

- In /babaemun/  $\rightarrow$  babaVmun  $\rightarrow$  [babamun], NOHIATUS is satisfied only by the final step, so it can't motivate the first step.
- <u>Refinement</u>: NOHIATUS penalizes consecutive *fully specified* vowels. Now no violation is incurred by [babaVmun].

# THE TIMING OF VIOLATIONS IN SERIAL DERIVATIONS

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'his/her dad' 'my dad'





Surface Form Target		
/baba-e/ babae	0.589	/baba-en
baba	0.080	
baba?e	0.331	





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