

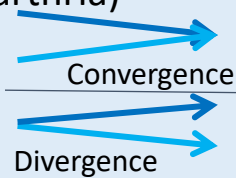
Phonetic Accommodation to Hypernasal Speech

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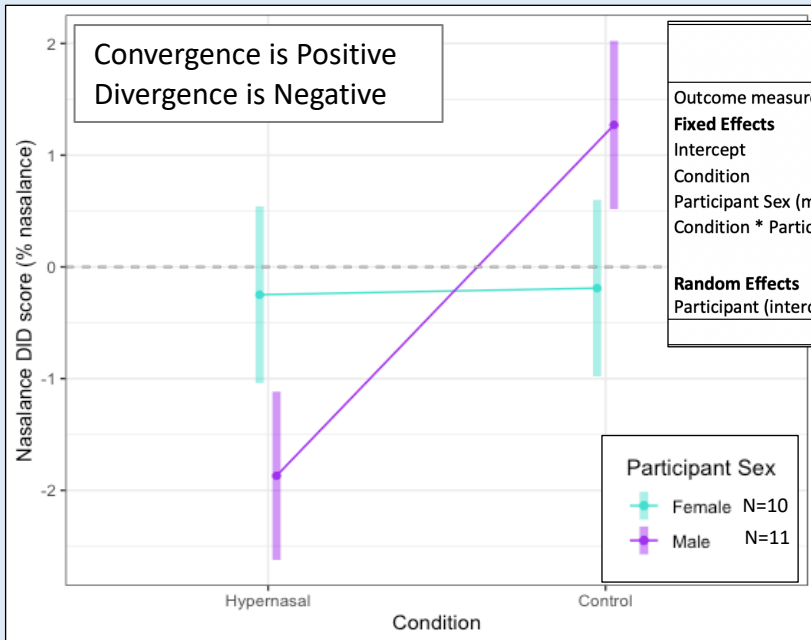
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Background

- **Hypernasality** is a speech disorder in which excessive sound resonates in the nasal cavity (Zajac & Vallino, 2017)
- Hypernasality can stem from various etiologies (Kummer, 2011)
 - Structural (e.g., Cleft palate) & Neurological (e.g., Dysarthria)
- **Phonetic Accommodation Theory** (Sheppard, Giles, Le Poire, 2001)
Interlocutor becomes more similar to socially desirable speech and less similar to socially undesirable speech



Method & Results



	Estimate	Standard Error	DoF	t value	p value
Outcome measure: Nasalance Difference in Distance Score					
Fixed Effects					
Intercept	-1.06	0.27	33.75	-3.95	<0.001
Condition	1.60	0.27	1653.07	5.98	<0.001
Participant Sex (male/female)	1.62	0.54	33.75	3.02	0.005
Condition * Participant Sex	-3.08	0.54	1653.07	-5.76	<0.001
Random Effects					
	Variance	Standard Deviation			
Participant (intercept)	0.76	0.87			

The Interaction between Condition and Participant Sex indicated that **males accommodated more than females**

Conclusions

- **Divergence** to hypernasal speech may be explained by the **lowered social acceptability of hypernasal speech**
- Males diverged more than females. Additional studies are encouraged to better understand the effect of sex on accommodation

Acknowledgements & References

A big thank you to Dr. Gillian de Boer, Mia Mistic, Kristin Harrison, Stephanie Richardson, Kylee Daley, Viviane Zhiyao Che, Olenka Anna Pankiw, Jessica Doerrl, Meghan Woodcock for their help with data collection and analysis. This research was completed with funding from a Social Science and Humanities Research Council of Canada grant

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