

Talker generalization of accent adaptation: Questioning its robustness

Lauren Oey*, Crystal Lee*, Emily Simon*, Xin Xie, T. Florian Jaeger

loey@u.rochester.edu & crystal.lee@rochester.edu University of Rochester

*Authors contributed equally



Background:

- Exposure to multiple talkers of a single accent -> generalization to novel talker of same accent^{1,2,3}
- Exposure to multiple talkers of multiple accents -> generalization to novel talker of same and novel accent2
- Listeners learn systematic variation across talkers, but empirical evidence is limited

What circumstances facilitate generalization of accent-adaptation?

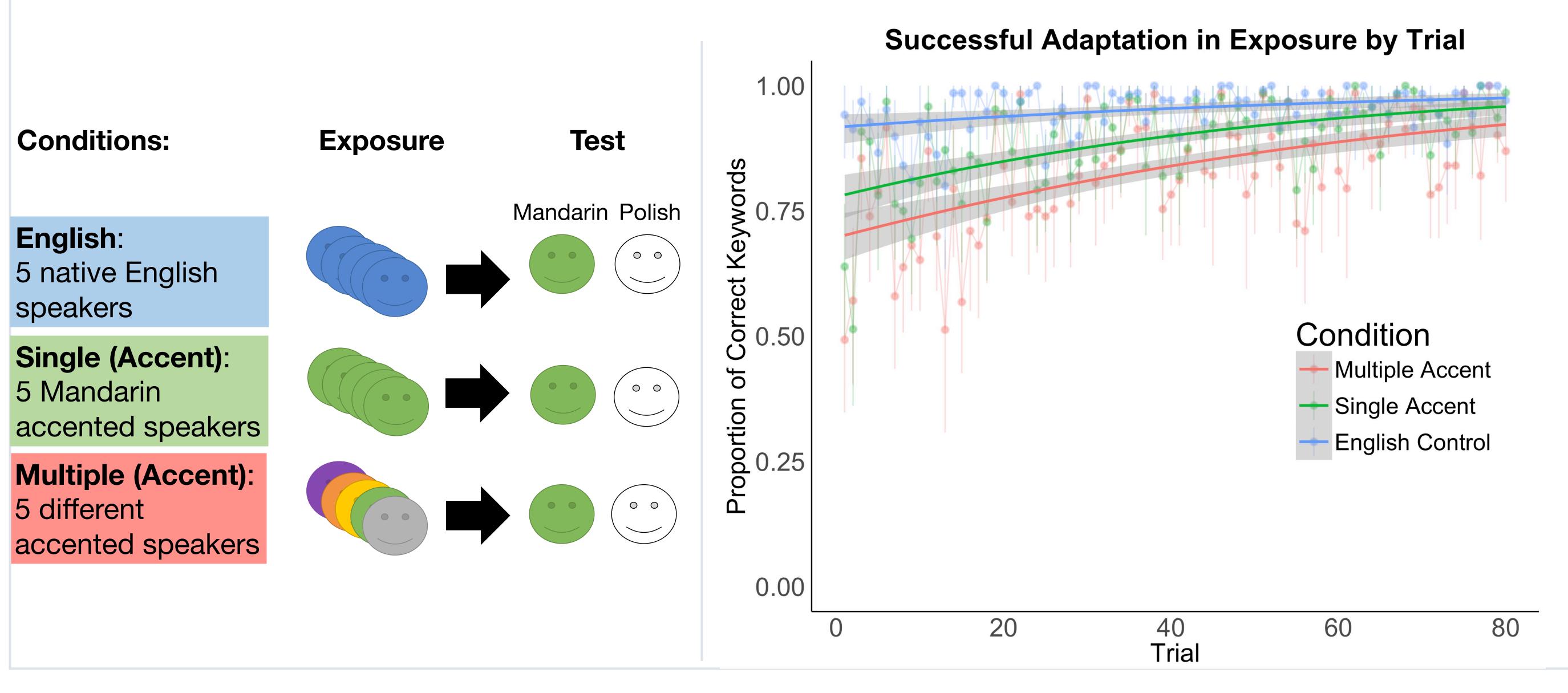
Task:

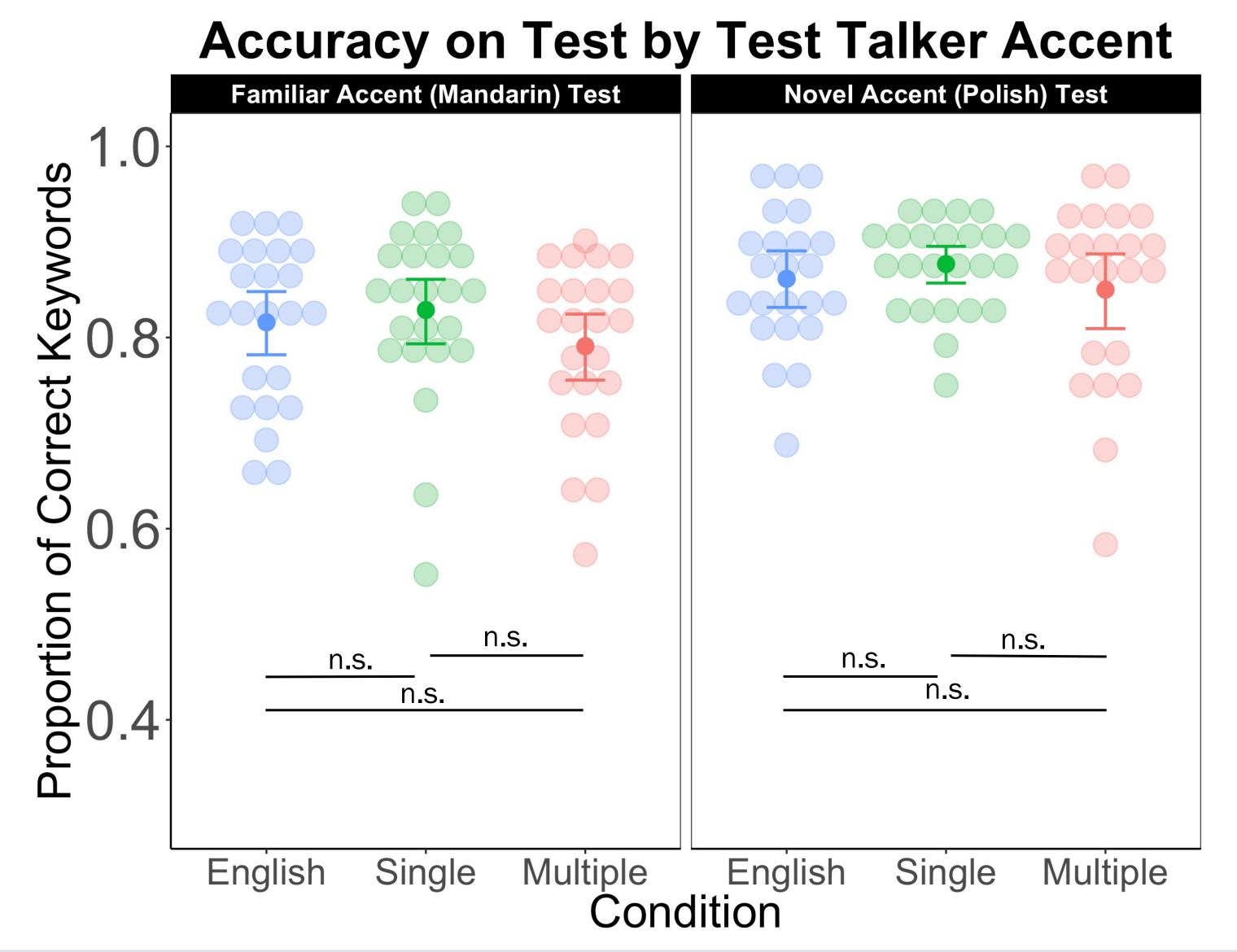
Transcribe speech in noise, conducted on Mturk

Stimuli:

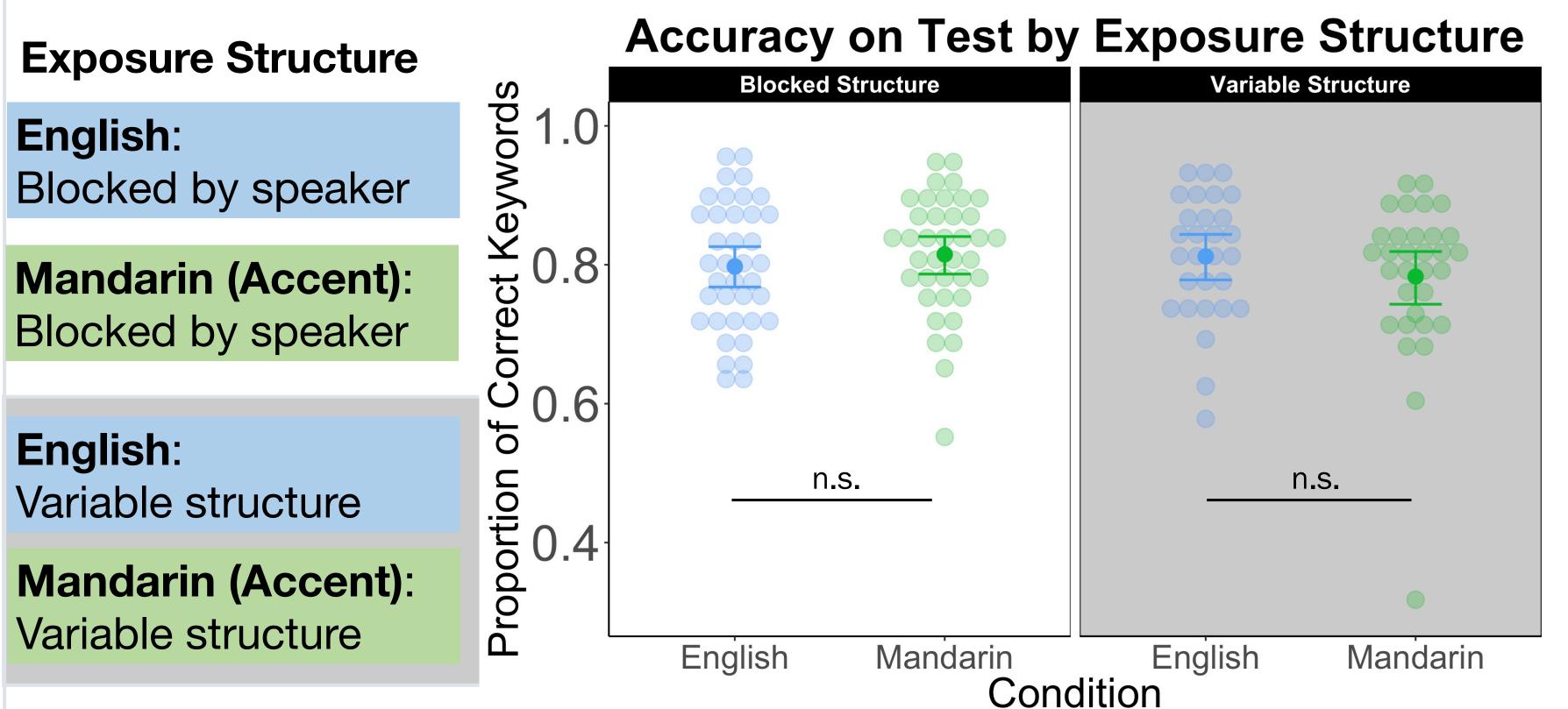
Example: "Dad pointed at the grass."



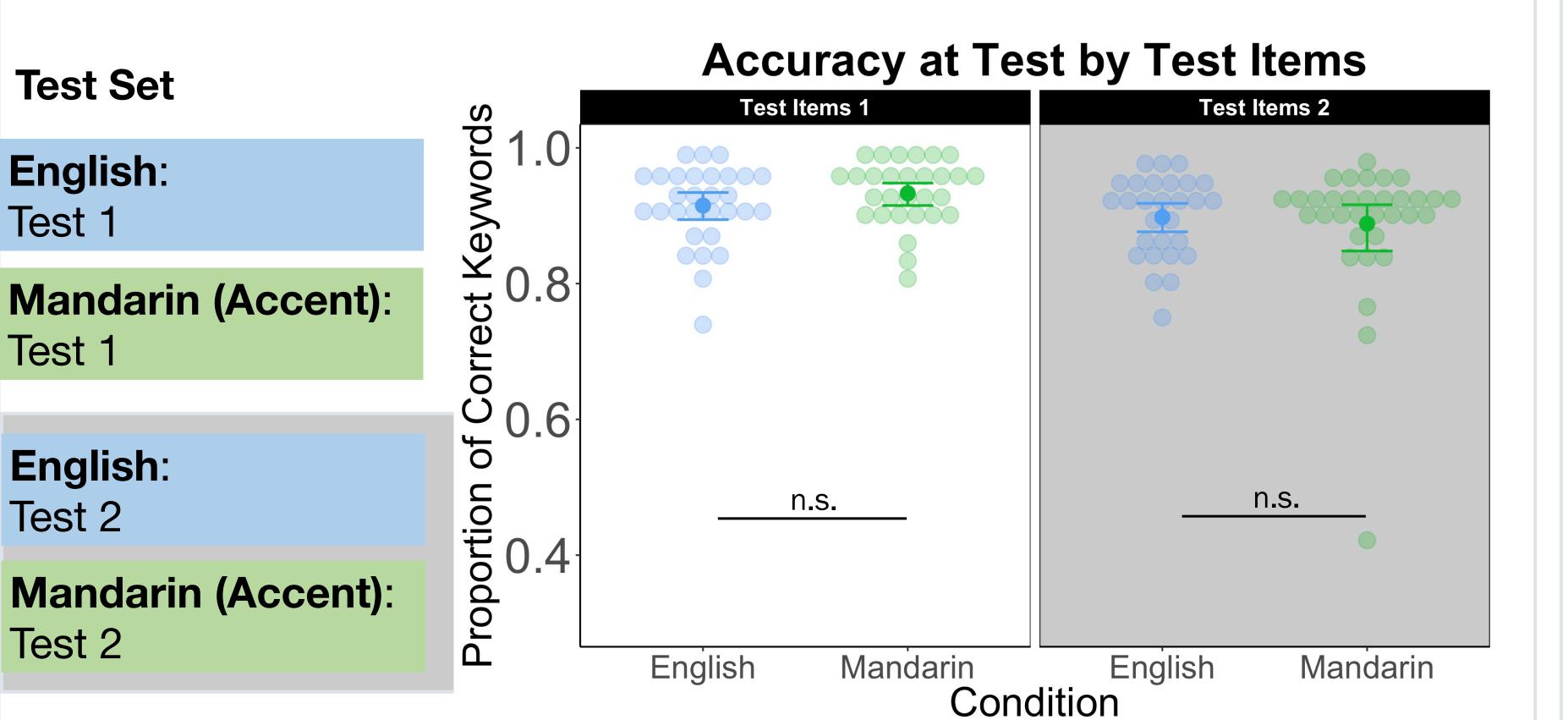








Experiment 3: Does generalization depend on specific test items?³



Conclusions:

- Multiple-talker exposure does not guarantee generalization
- Generalization may not be as robust as previously assumed