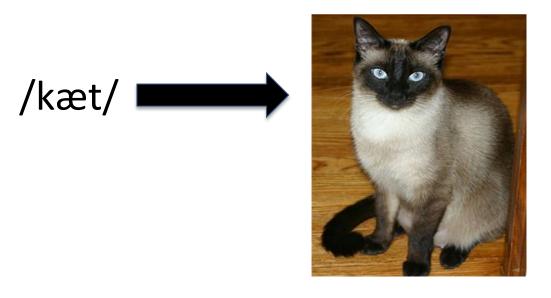
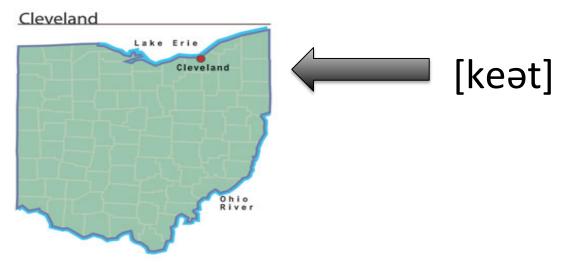
## Tracking Dialect Perception through the Lifespan

Laura Wagner
Cynthia G. Clopper
Elizabeth A. McCullough



## Social Meaning in Language





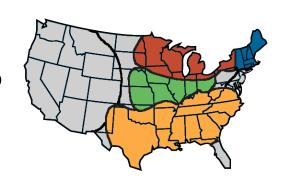
We provide information that indexes us as individuals every time we talk.

#### Regional Dialect

#### Adults can...

- Group people based on how they talk (Clopper & Pisoni, 2007)
- Identify where someone is from based on how they talk (for known dialects) (Clopper & Pisoni, 2004)
- Perceptually adapt to different pronunciations (Maye et al., 2008)
- Judge people based on how they talk (Lambert et al., 1960)

How do children acquire these skills?



#### Infant Abilities

## Before 12 months of age (often well before), infants can...

- Discriminate between two regional dialects of English (Nazzi et al., 2000; Butler et al., 2011)
- Show social preferences for speakers of their soon-tobe native language (Kinzler et al., 2007)

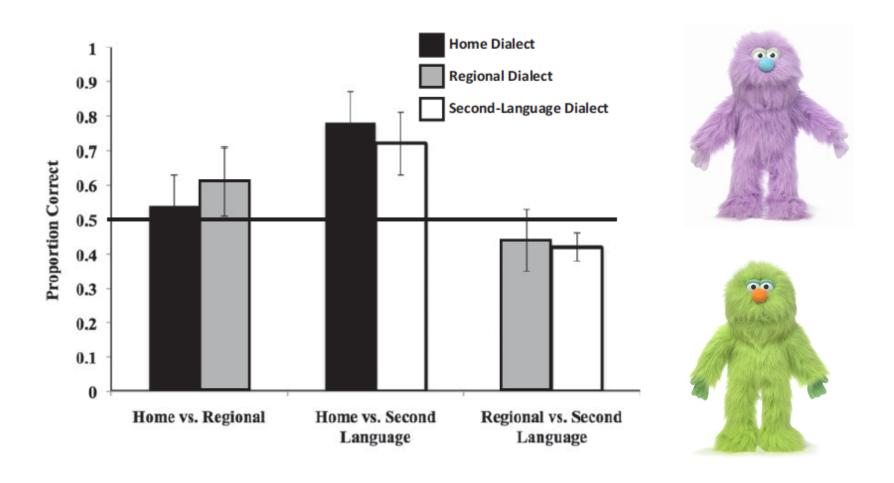
#### **Pre-School Problems**

 Old pre-schoolers (age 5 and 6 years) FAIL to use regional dialect information in an explicit categorization task (Floccia et al., 2009, Girard et al., 2008; Wagner et al., 2014)

- They also FAIL to normalize across dialects in a word recognition task (Nathan et al., 2008)
- Social attitude judgments based on regional dialect are not solid until age 9 years (Kinzler & DeJesus, 2013)

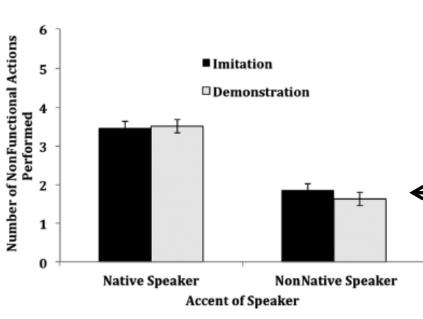
#### **Pre-School Problems**

(Wagner, Clopper, & Pate, 2014)



#### Some Hope: Foreign Accents

Pre-school aged children DO seem to use the difference between native and foreign accented speech to make social judgments.



 Children would rather be friends with a native talker (Kinzler et al., 2007)

 Children would rather imitate and learn from a native talker

(Wagner, Dunfield, & Rohrbeck, 2014)

 Children can categorize talkers using home vs. L2 variety

(Wagner, Clopper, & Pate, 2014)

## So what's the story?

- Task differences
- Different kinds of dialects and other speech variation examined
- Sparse data set to make generalizations from

# The Ohio Regional Dialect Developmental Repository



 Cross-sectional data from a large sample to establish developmental milestones for a range of dialect skills:

Discrimination

Grouping (free classification, explicit categorization)

Localness judgments

Attitude judgments (solidarity, status)

**Production** 

Intelligibility

 Sampled fairly densely from 4 – 17 years of age, and somewhat more sparsely from 18 – 94 years of age

Phase 1: Between-subjects

Phase 2: Within-subjects

Phase 3: Make (some of) the data publicly available

### For Today

- Free classification by children (4 11 years)
- Localness judgments by children and adults

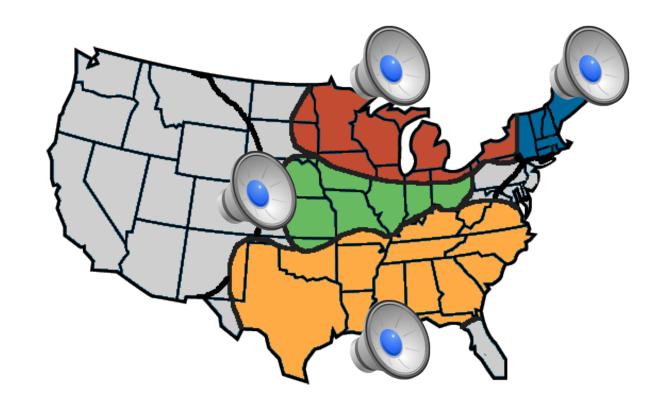
#### Free Classification

- Task is a child-friendly adaptation of Clopper & Pisoni (2007)
- Participants listen to a set of talkers and are asked to group them based on "where they are from"
- 3 female talkers from each of 4 regional dialects

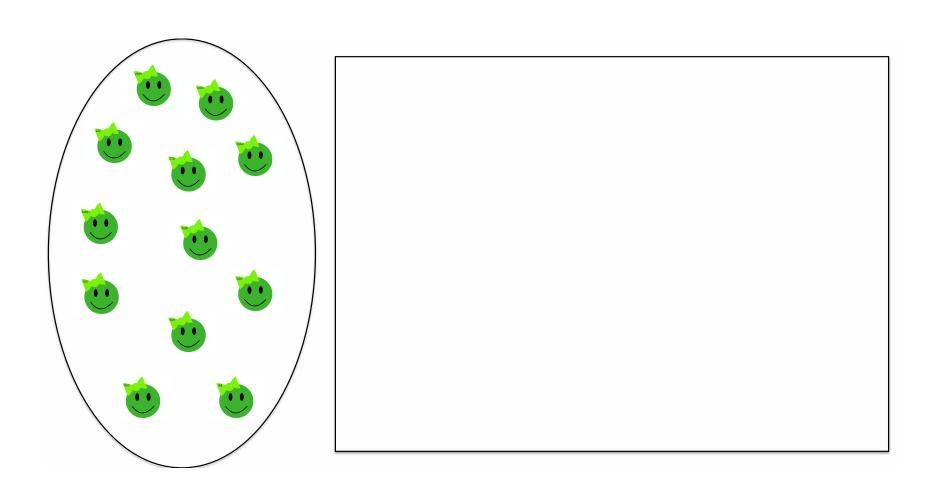
## Regional Dialects Used

She had your dark suit in greasy wash water all year.

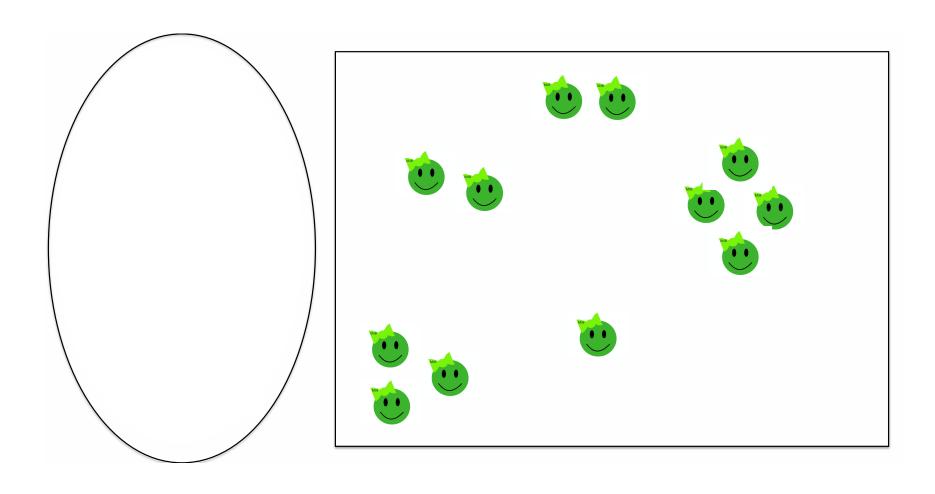
- Midland
- North
- New England
- South



#### Free Classification



#### **Free Classification**



#### Free Classification Advantages

#### Open-ended task

Children can make as MANY or as FEW groups as they want

#### Easy listening

- Children can listen to each talker as many times as they want
- All talkers say the same sentence

#### Free Classification Participants

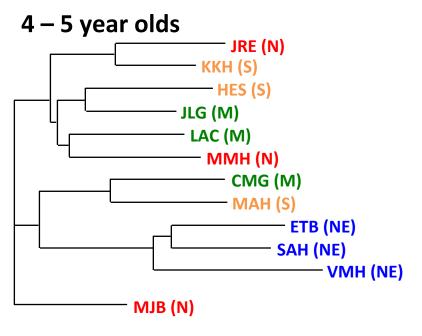
Age group (years)	Mean age (years)	N
4 – 5	4.5	40
6 – 7	6.6	44
8 – 9	8.4	45
10 – 11	10.4	41
	total	170

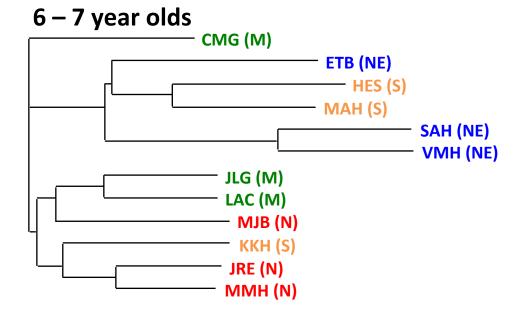
The standard adult version of the task (5 talkers per dialect, no cute icons) was also conducted with 8-11 year olds (N = 100), 12-17 year olds (N = 100) and adults (N = 200). See Yan et al. (2014).

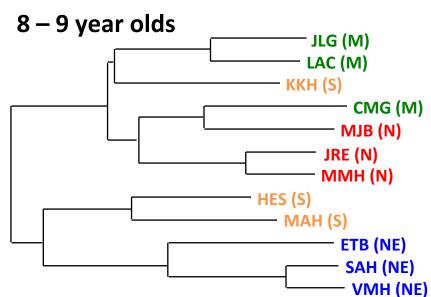
## Results: Groups and Accuracy

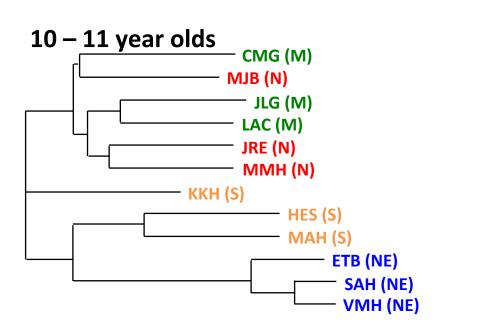
Age group (years)	Mean number of groups	Proportion correct pairings	Proportion errors	Difference score (correct – errors)
4 – 5	3.40 (1.92)	0.45 (0.25)	0.39 (0.21)	0.05 (0.14)
6 – 7	4.77 (1.87)	0.31 (0.21)	0.22 (0.17)	0.09 (0.14)
8 – 9	4.67 (2.15)	0.42 (0.25)	0.19 (0.15)	0.23 (0.21)
10 – 11	4.56 (1.80)	0.39 (0.27)	0.16 (0.10)	0.23 (0.26)

## Results: Cluster Analysis

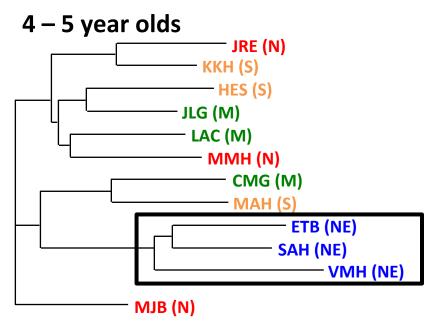


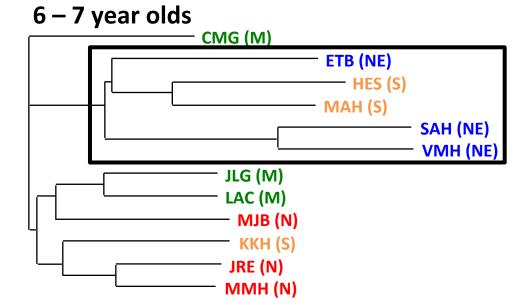


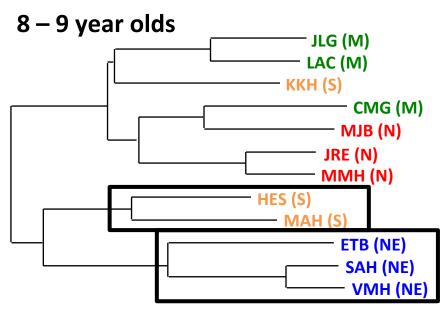


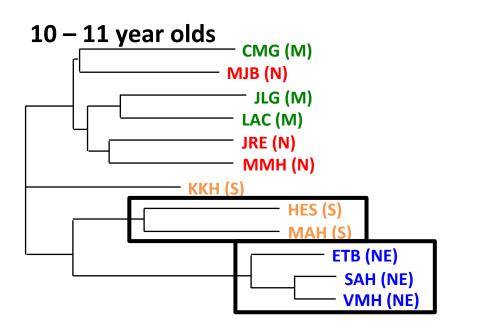


### Results: Cluster Analysis









#### Free Classification Summary

#### Pre-schoolers CAN classify talkers by dialect

 These data are the first to show that pre-school aged children can group individual talkers based on regional dialect

#### Exposure matters

 ALL children grouped the New England talkers together, and children in our sample have the least exposure to this dialect

#### In-group/out-group matters

- 6- and 7-year-olds group New England and South into one (out-)group
- By 8 9 years, children have clearly distinct New England and South groups, and (like adults) group Midland and North together

## But what do children know about actual places?

- For adults, the regions indexed by regional dialect correspond to actual, sometimes quite specific, places
- When do children link regional dialect to different (known) places? How is that skill linked to their ability to group talkers by place?

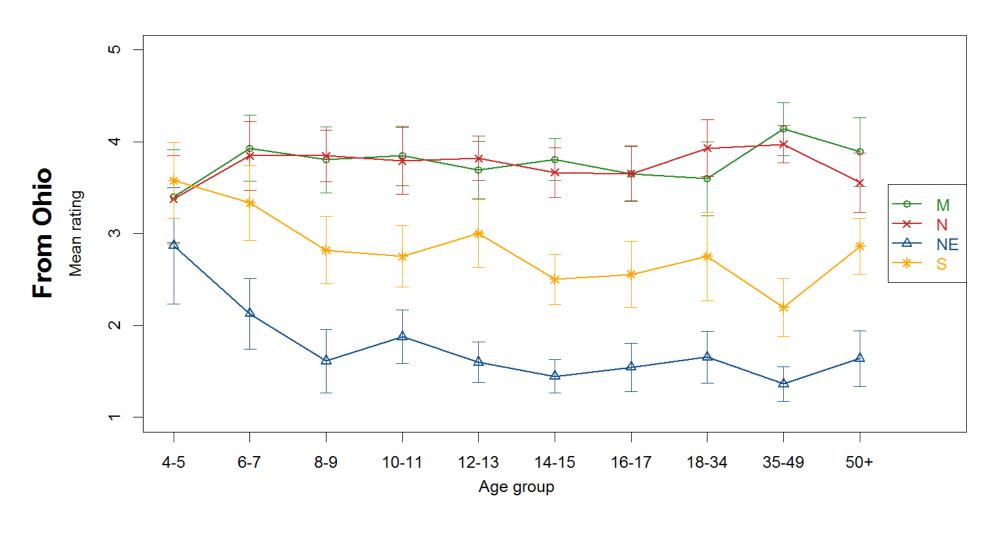
### **Localness Rating Task**

- How much does this person sound like she's from Ohio?
  - Very much like she's from Ohio
  - A little like she's from Ohio
  - Maybe or maybe not like she's from Ohio
  - Not really like she's from Ohio
  - Not at all like she's from Ohio
- Three female talkers from each dialect (Midland, North, New England, South) were rated in a randomized order

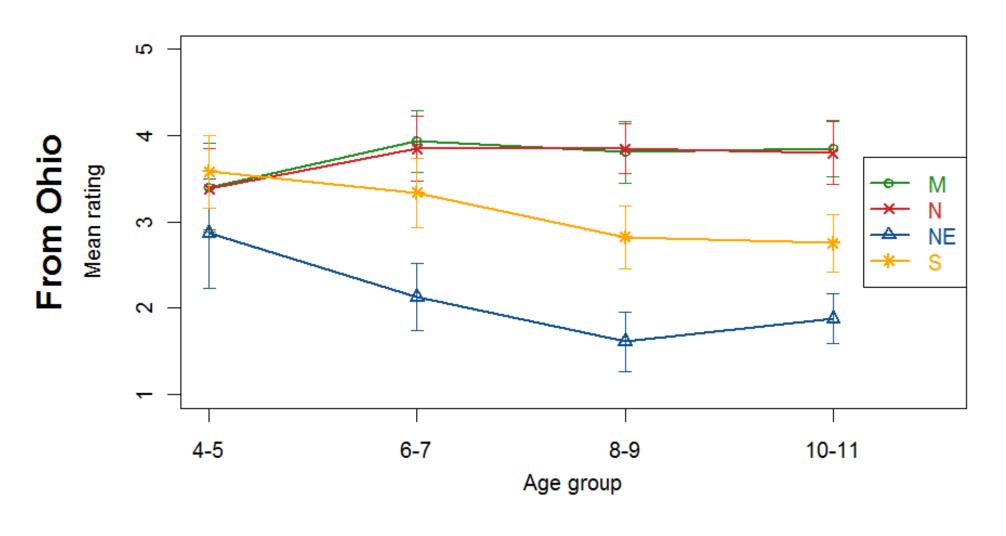
## **Localness Rating Participants**

Age group (years)	Mean age (years)	N
4 – 5	4.9	15 (data collection ongoing)
6 – 7	6.5	24
8 – 9	8.3	24
10 – 11	10.3	24
12 – 13	12.5	24
14 – 15	14.5	24
16 – 17	16.6	24
18 - 34	25.7	24
35 – 49	40.9	24
50+	61.0	24
	toto	al 231

## Localness Ratings: All Participants



## Localness Ratings: 4 – 11 Year Olds



## **Localness Rating Summary**

#### Similarities to free classification

 By age 8 – 9, children show adult-like performance on both tasks: they separate South and New England talkers into distinct clusters and rate them as being non-local (although New England talkers are less local than South)

#### Differences from free classification

- 4- and 5-year-olds cluster the New England talkers together, but they do not identify them as non-local
- 6- and 7-year-olds cluster South and New England talkers together, but only rate the New England talkers as being non-local

### **General Summary**

- Pre-school aged children CAN use regional dialect to group talkers
  - Earliest success found for such a task
  - Some dialects facilitate children's ability to group talkers (exposure? social relevance?)
  - Skills become adult-like by around age 8 years
- Explicit judgments about region location (here vs. not here) MAY develop differently than the ability to group talkers
  - Adult-like abilities are achieved in the two tasks at the same time, but the developmental trajectories are different

## Stay Tuned...

 Data collection on other tasks is still ongoing and there is much more to come!

#### Thank You!

**Cynthia Clopper** 









Liz McCullough



**Eryn Ahlers** 



**Liz Nugent** 

**Zack Jones** 





