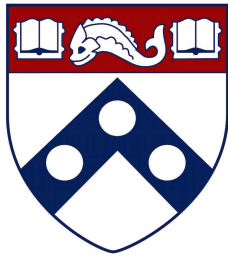
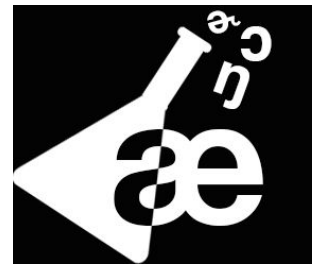


Empathy, flexibility, and conformity in a sound change in progress



Meredith Tamminga
University of Pennsylvania



Personality in Speech Perception and Production
LabPhon 15 Satellite Workshop
Cornell University - July 17, 2016

Who leads language change?

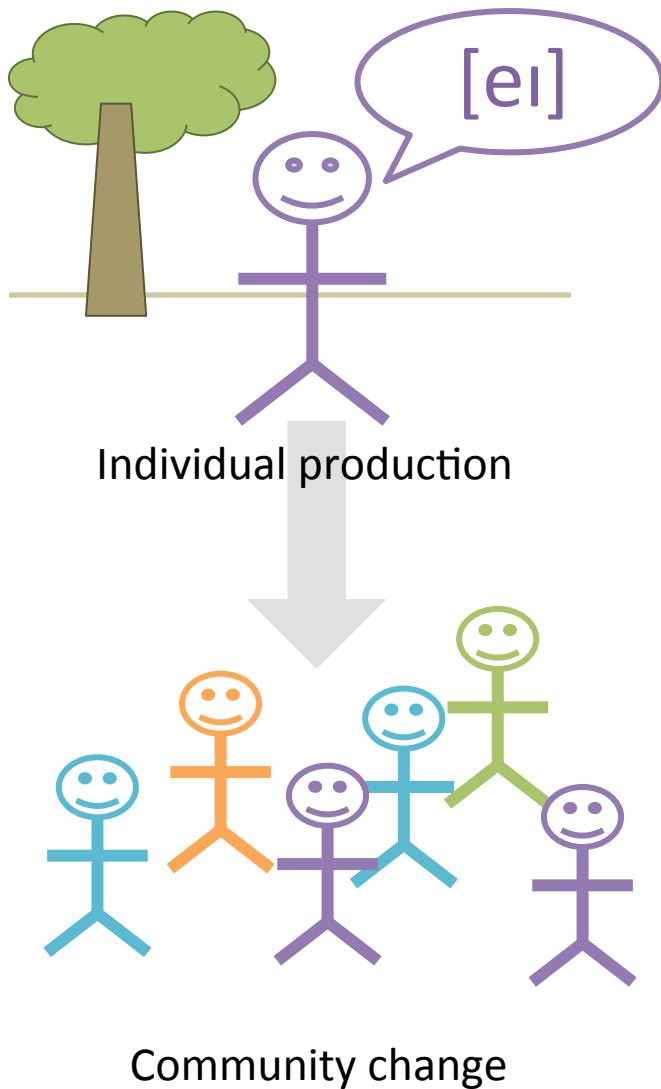
“The basic strategy of this pursuit of the causes of change is to identify the leaders of change in progress; in place of the question ‘why?’ I substituted the question ‘who?’.”

Labov 2001: 90

Who leads language change?

- Reflects relationship between the key role of the speaker-hearer as the agent of sound change and the need to identify change at the community level
- Empirical evidence on this relationship has come from both laboratory experiments and sociolinguistic fieldwork

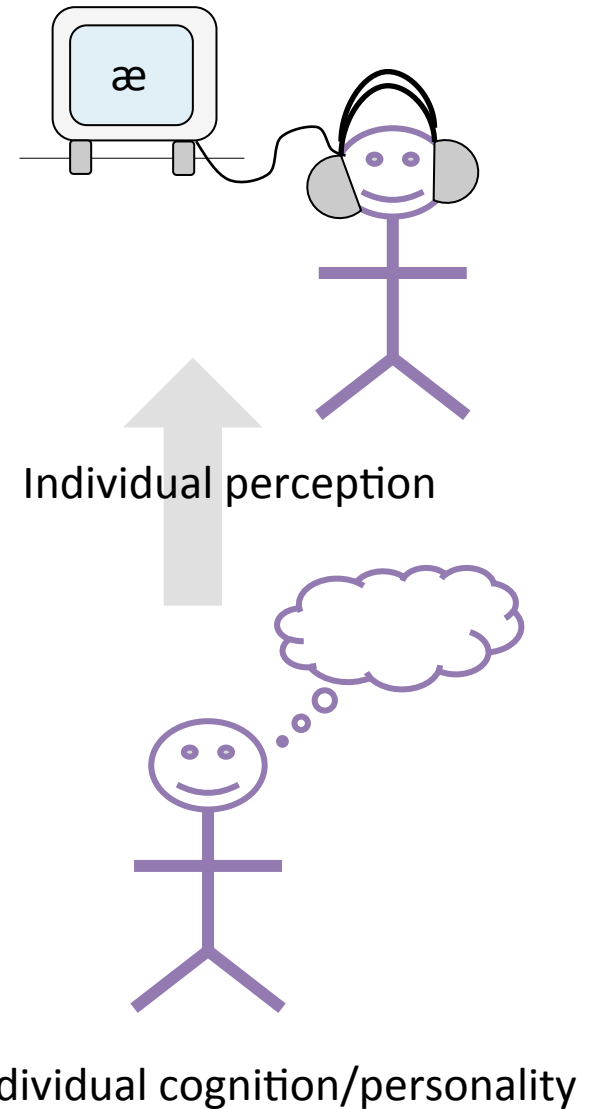
Sociolinguistic fieldwork



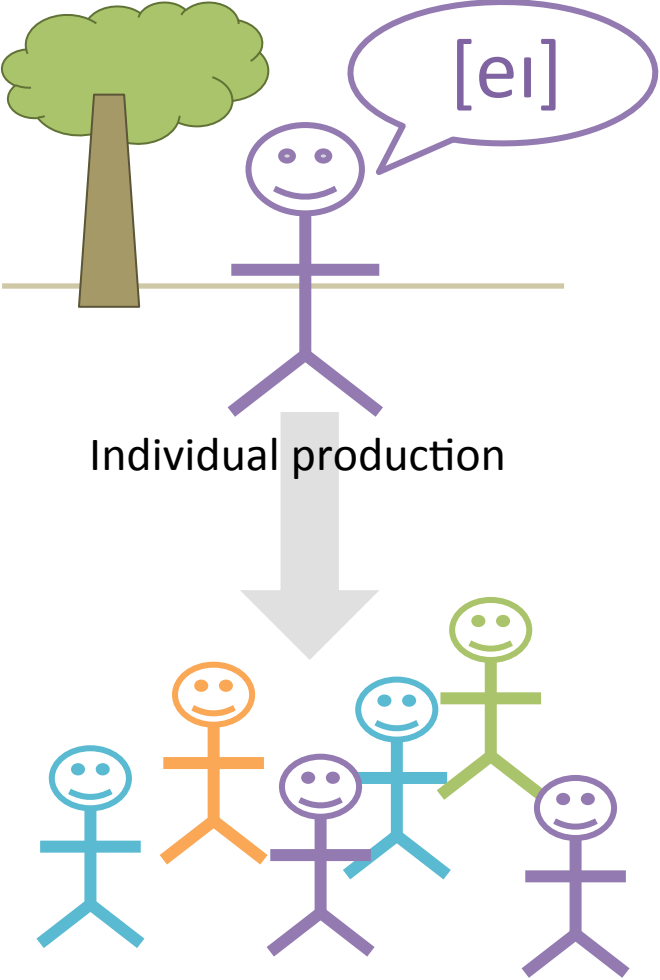
- Demographically, tends to be young women
- Martha's Vineyard, Labov 1972
- "their sociolinguistic position is a display of nonconformity."
Labov 2001: 410
- "burned-out burnouts"
Eckert 2003
- "exert more influence than they receive" Labov 2001: 410

- Stewart & Ota 2008 – inverse correlation between AQ and Ganong effect
- Yu 2010 – less perceptual compensation by low-AQ women
- See also Lev-Ari & Peperkamp 2014, Baese-Berk 2015, Turnbull 2015, Kingston et al. 2015...
- “minimal compensators who are superior empathizers” Yu 2013: 224

Laboratory experiments



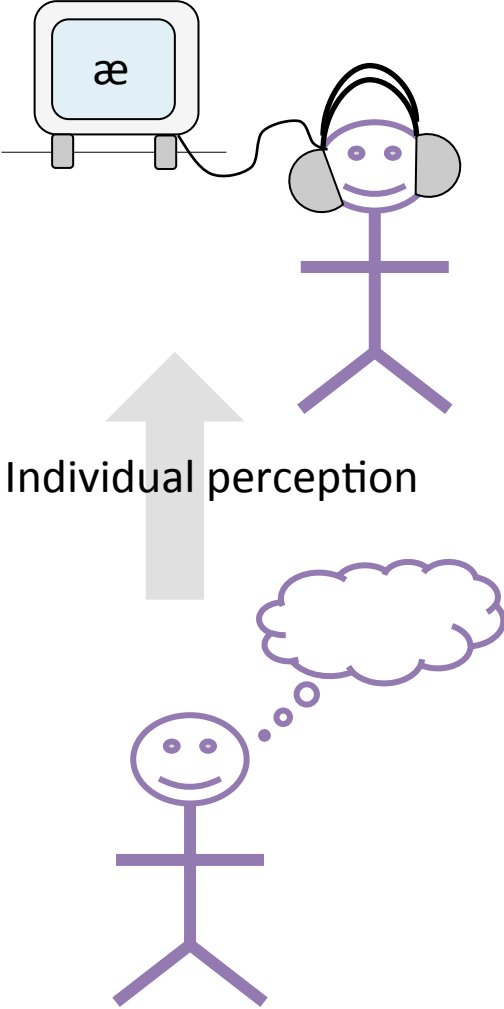
Sociolinguistic fieldwork



Individual production

Community change

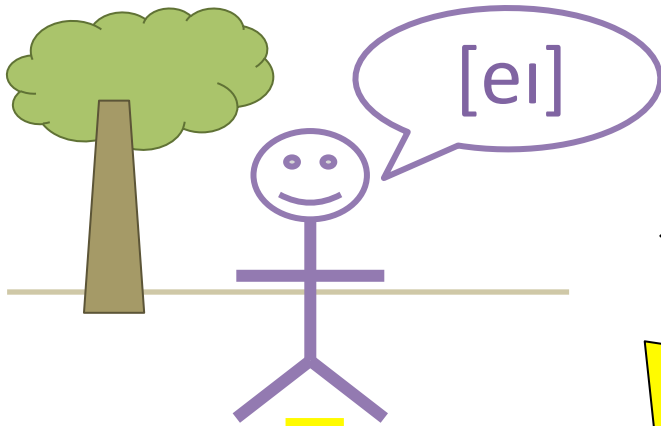
Laboratory experiments



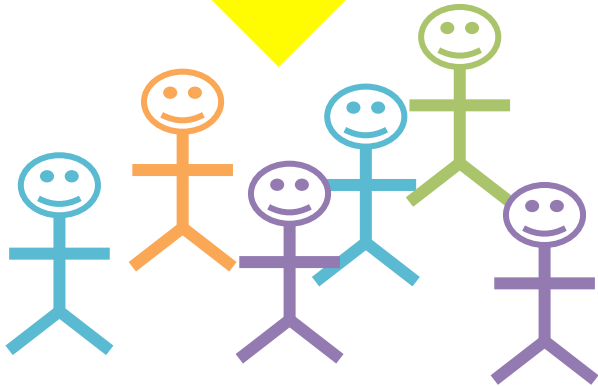
Individual perception

Individual cognition/personality

Sociolinguistic fieldwork

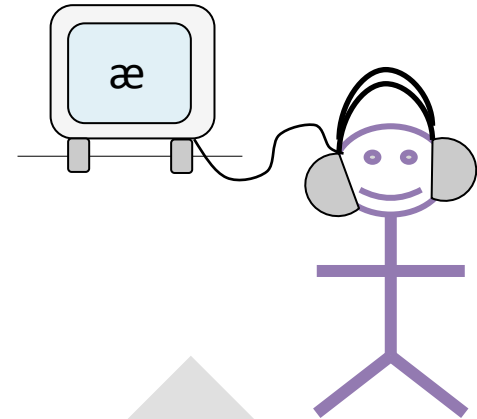


Individual production



Community change

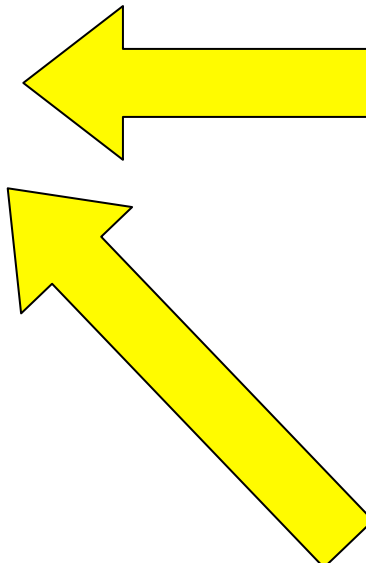
Laboratory experiments



Individual perception



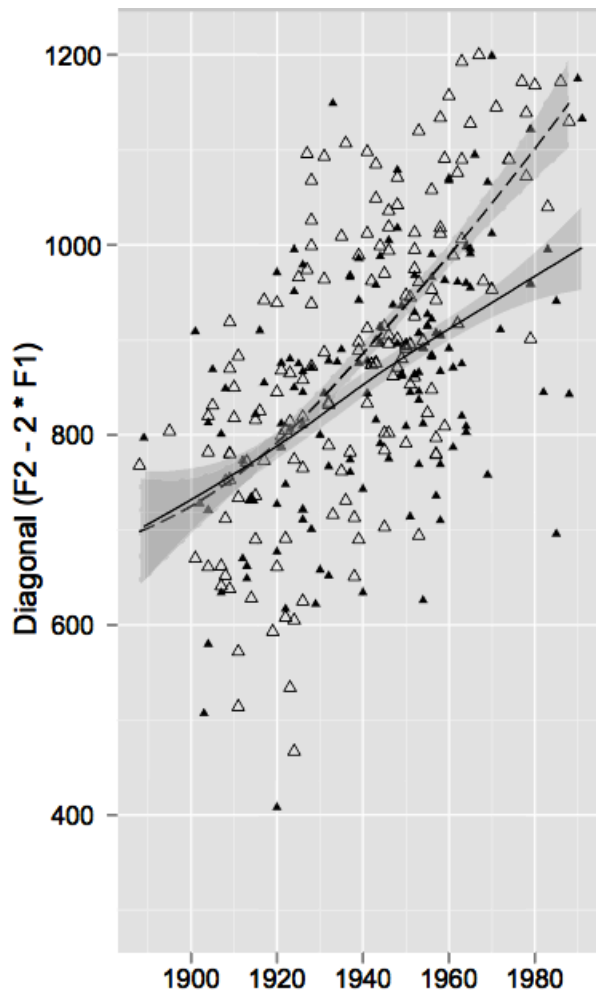
Individual cognition/personality



Who leads language change?

- Need to connect what we know about leaders of language change from sociolinguistic fieldwork perspective and laboratory experimental perspective
- New project to combine data from spontaneous speech and experimental performance by same individuals

Change from below in /eyC/



from Labov et al. 2013

- Raising of /ey/ (“plate”) before consonants
- Does not reverse mid-century like other Philly sound changes (Labov et al. 2013)
- Does not show educational stratification (Prichard 2016)
- Never mentioned in meta-discussion of Philly accent

Pilot with Philadelphian women

- 20 young women recruited in friendship pairs
- 30 minute dyadic conversation without interviewer present
- Individual differences experimental battery
- F1 of /eyC/ tokens measured by hand in Praat
- Pilot data relating to hypotheses about **empathy**, linguistic **flexibility**, and **conformity**

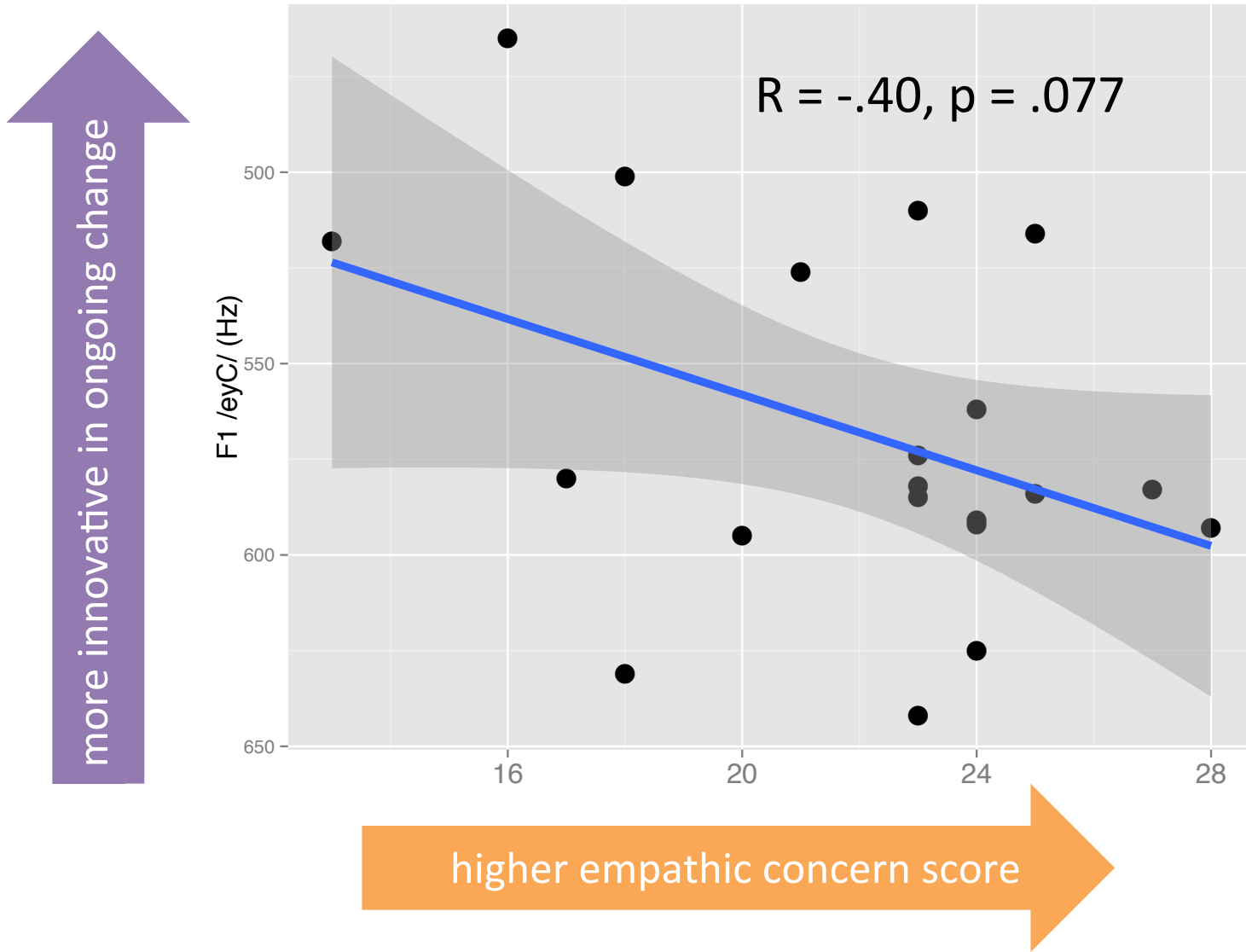
Pilot with Philadelphian women

- Are the young women with the most innovative /eyC/ production in conversational speech...
 1. More **empathetic**?
 2. More linguistically **inflexible**?
 3. More **nonconformist**?

Are the leaders more empathetic?

- Empathic Concern subtest of Interpersonal Reactivity Index (Davis 1983)
- 28-item self-reported questionnaire
- Assesses “feelings of sympathy and concern for unfortunate others” (Davis 1983: 114)
- Hypothesis: Empathic concern will correlate positively with /ey/-raising

Are the leaders more empathetic?

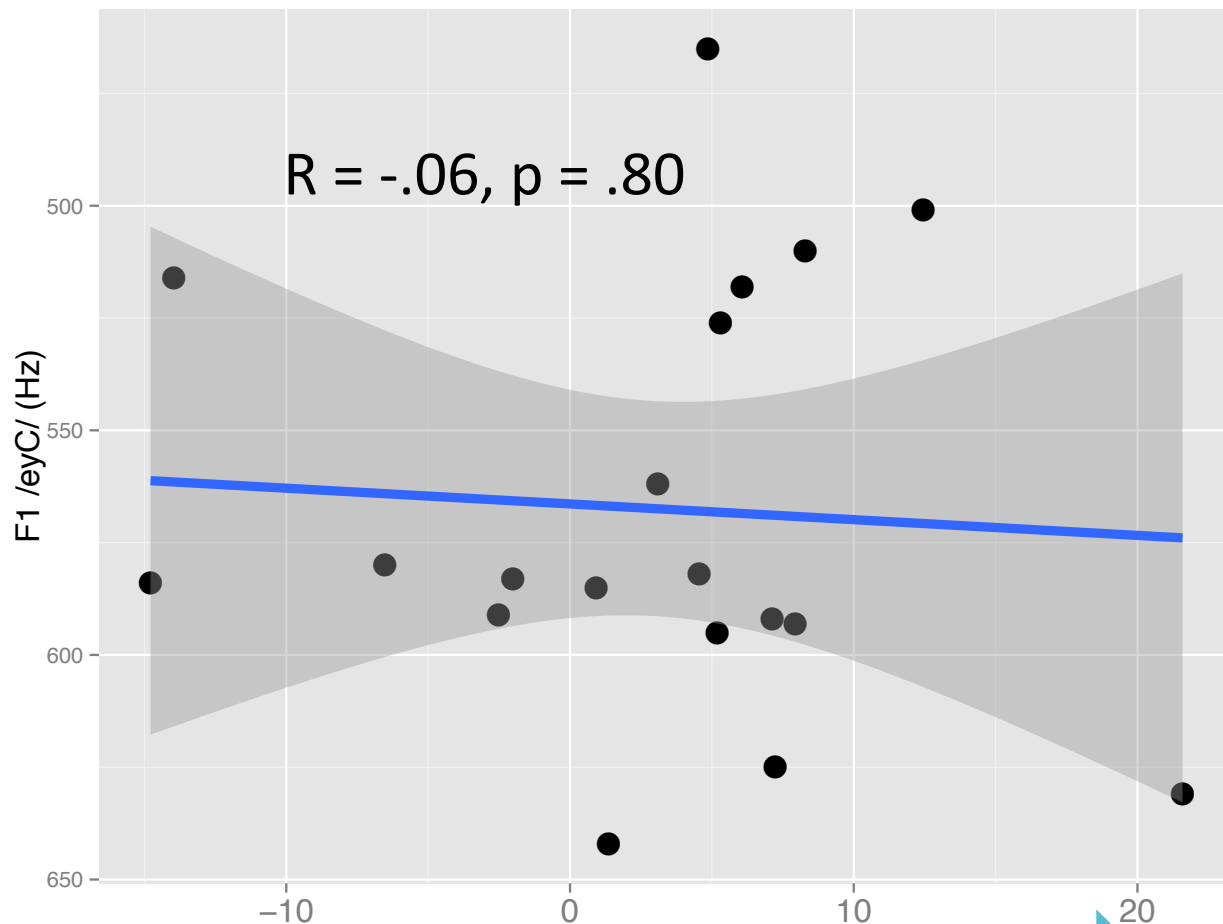


Are the leaders less linguistically flexible?

- Shadowing task with model talker's word-initial voiceless stop VOT extended 100%
- Replication of Shockley, Sabadini & Fowler 2004, Experiment 2
- Participant baseline from reading condition
- Hypothesis: VOT convergence will correlate negatively with /ey/-raising

Are the leaders less linguistically flexible?

more innovative in ongoing change

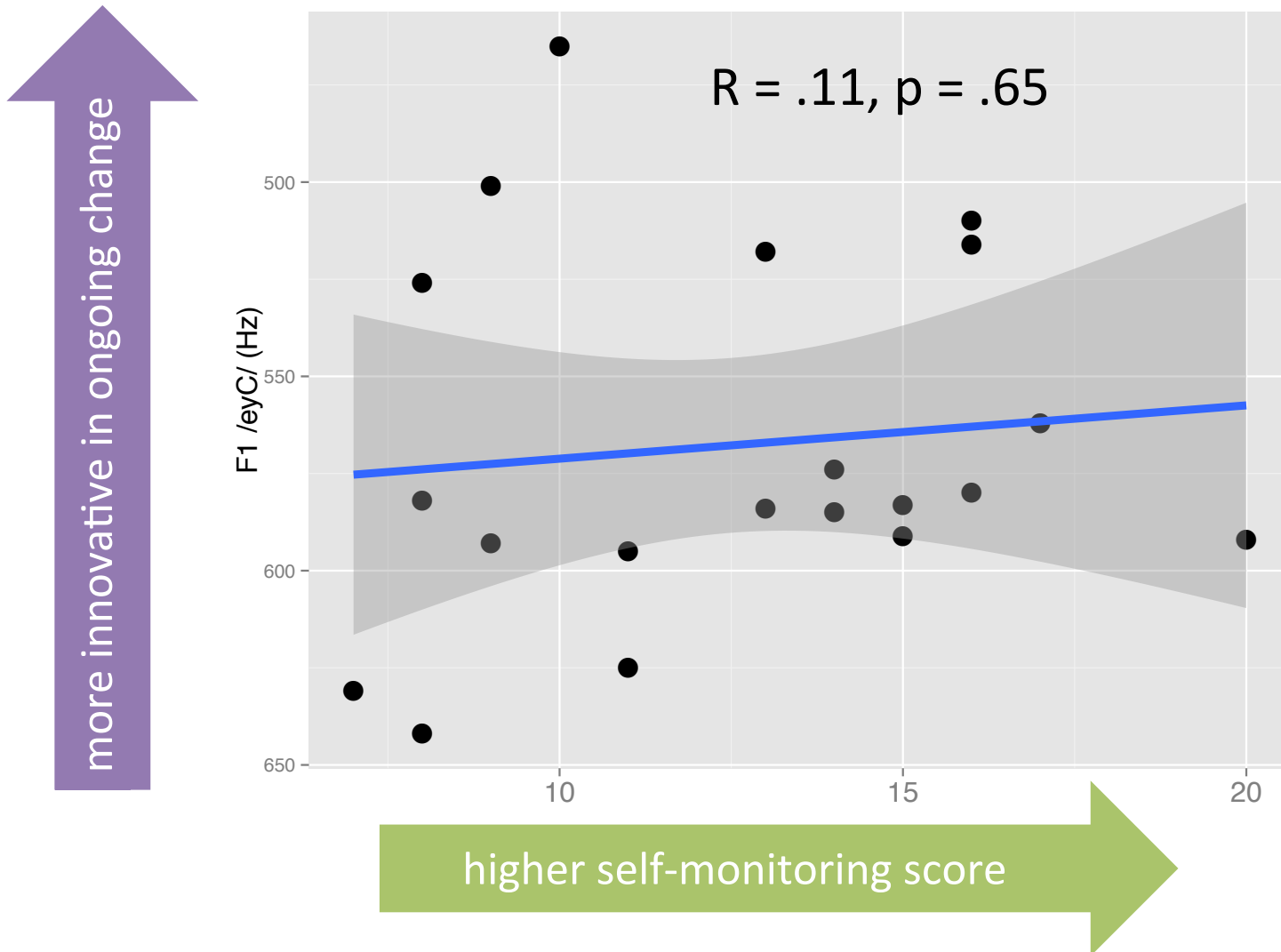


greater VOT convergence in shadowing

Are the leaders **nonconformist**?

- Self Monitoring Scale (Snyder 1974)
- 25-item self-reported questionnaire
- Monitoring of self-presentation out of a concern for social appropriateness
- Hypothesis: SMS scores will correlate negatively with /ey/-raising

Are the leaders **nonconformist**?



Discussion

- Limited preliminary evidence on role of empathy is in opposite direction from Yu's conjecture: speakers who are most advanced in /eyC/-raising are *least* empathetic, not most
- Not yet any evidence to support the hypotheses that the leaders of this sound change are socially nonconformist or linguistically inflexible

Discussion

- Theories of what role personality plays in sound change will need to be sensitive to different particular changes or different types of change:
 - different levels of social salience
 - different origins
 - different involvement of phonetic factors

Discussion

- Theories of sound change from the laboratory can and should be tested against spontaneous speech data on change in progress in speech community
- Stay tuned for results from the full project!

Thank you

Thanks to Elisha Cooper for her assistance and to the members of the Language Variation and Cognition Lab for their input.

Thanks also to Daniela and Keith!

Contact me:

taminga@ling.upenn.edu

