Preparing Interviewers to Survey Speakers of Non-English Languages: A Data-Driven Approach

Mikelyn Meyers¹, Renee Ellis¹, Andrew Raim², Patricia Goerman¹, Kathleen Kephart¹, Patricia LeBaron ³

¹Center for Behavioral Science Methods, U.S. Census Bureau

²Center for Statistical Research and Methodology, U.S. Census Bureau

³RTI International

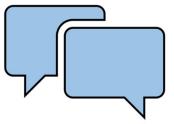
Presented at the American Association for Public Opinion Research (AAPOR) Conference May 15-17, 2024 Atlanta, GA

Disclaimer: This presentation is intended to inform people about research and to encourage discussion. The views expressed are those of the authors and not those of the U.S. Census Bureau.



Bilingual Interviewing: a Specialized Skill

- Bilingual interviewing requires familiarity in the non-English language with
 - Introducing the survey at the doorstep
 - Reassuring reluctant respondents
 - Administering the survey, etc.
- Bilingual interviewers in the U.S. may receive limited (or no) specialized training due to
 - Lack of resources to develop training
 - Logistical challenges of coordinating training
 - Lack of awareness that training is needed, etc.
- Gap in research documenting best practices for this training





Official Translations and Data Quality

- Observation of 600 interviews in 7 languages during 2010 Census supports this connection
 - Interviewers were more likely to improvise question content in non-English languages than in English
 - Behavior "posed a threat to data quality" (Pan & Lubkemann 2013)

Using official translations likely to improve

"Uniform wording of questions...is perhaps the most fundamental and universally supported principle of standardized interviewing. There is bounteous evidence that small changes in question wording can affect the answers that respondents give."



data quality and comparability

-Groves et al., 2009, p.305



Training Experiment

- Spanish-speaking interviewers split into two groups
 - 1. Control Group standard training
 - 2. Treatment Group standard + experimental training
- Experimental training
 - Topic: Administering 2020 Census interview in Spanish
 - Format: Online, 30-minutes, asynchronous
- Mixed-methods design
 - Conduct field observations [later canceled due to COVID-19]
 - Conduct 12 debriefing focus groups with interviewers
 - Descriptive statistics* from contact history data
- Goal: Evaluate impact of experimental training on efficiency and data quality during 2020 Census operation to follow-up with non-responders

*Additional analysis (e.g., multinomial regression model, etc.) available in study report



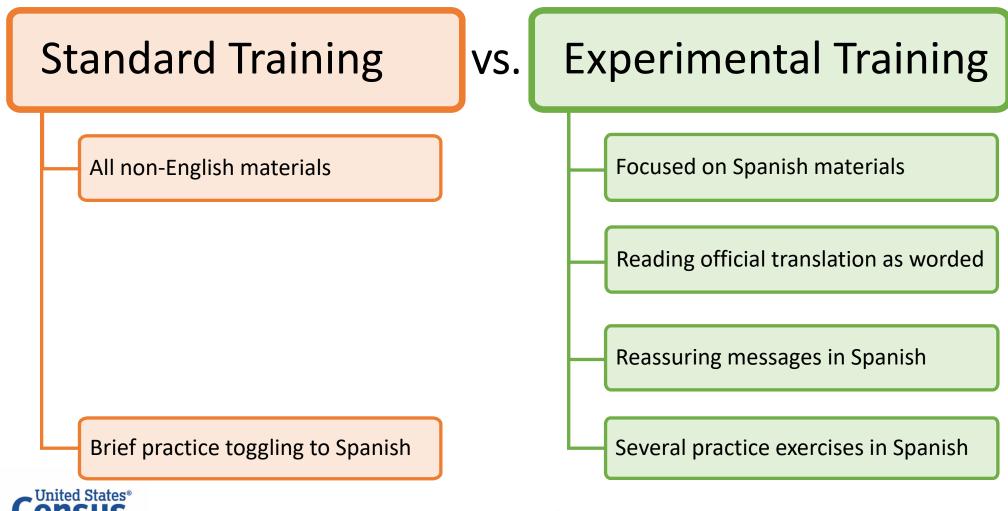
| 2 | |
|---|--|
| 2 | |
| | |

Treatment and Control Groups

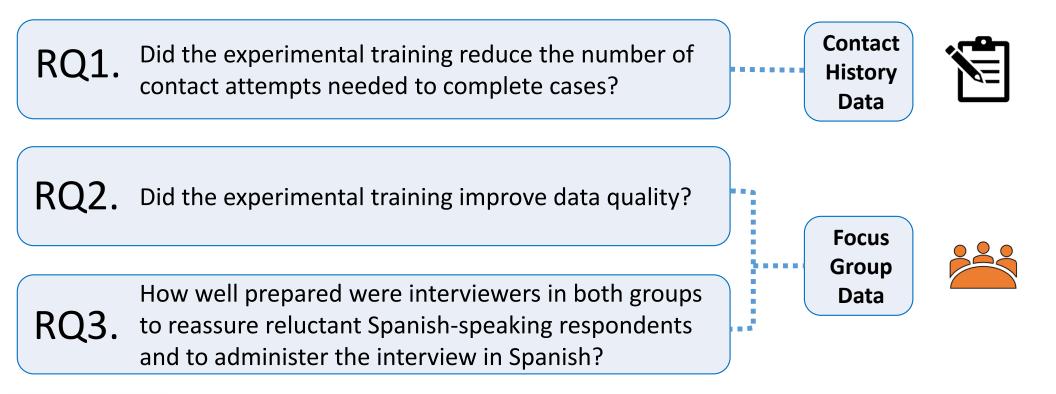
- Groups made up of
 - demographically similar census tracts
 - high concentrations of Spanish-speakers
- No reliable household-level data on language
 - Identified *potentially* Spanish-speaking households
- Focus groups uncovered mis-assignment (mostly under-assignment) of experimental training
 - Quantitative analysis excluded cases with contamination between groups

| Interviewers | Treatment | Control |
|------------------------------|-----------|---------|
| Focus Group Participants | 5 | 66 |
| Total | 360 | 1,996 |
| Households | Treatment | Control |
| Potentially Spanish-speaking | 16,000 | 70,500 |
| Total | 20,500 | 100,000 |
| Contact Attempts | Treatment | Control |
| Potentially Spanish-speaking | 17,174 | 76,554 |
| Total | 22,798 | 111,377 |





Research Questions





RQ1. Did experimental training reduce contact attempts needed to complete cases?

All completed cases

advantage for Treatment

Group persisted to 3rd

| ✓ Slightly more in Treatment Group | | | All Potentially Spanish-Sp pleted Cases Completed Cases | | |
|--|--------------|--------------|--|--------------|--------------|
| completed on 1st attempt | | Treatment | Control | Treatment | Control |
| attempt | Completed on | (n = 17,000) | (n = 84,500) | (n = 14,000) | (n = 62,500) |
| Potentially Spanish- | Attempt 1 | 85% | 83% | 86% | 83% |
| speaking completed cases | S Attempt 2 | 12% | 14% | 11% | 13% |
| ✓ Slight evidence | Attempt 3+ | 3% | 3% | 3% | 4% |

Note: Results from calculating log-odds ratios and confidence intervals for the multinomial regression model supported these findings



attempt

RQ2. Did experimental training improve data quality?

| After training | Control Interviewers | Treatment Interviewers | |
|--------------------------------|-----------------------------|------------------------|--|
| Knew how to access translation | x Many said toggling was | ✓ All said yes | |
| | not covered in training | • All Salu yes | |
| Departed using translation | x Many said they translated | ✓ Almost all reported | |
| Reported using translation | on-the-fly | using it | |

- Brief exercise in standard training on toggling may not have been memorable
- Control Interviewers did not seem aware they should use the official translation
- Findings suggest experimental training may have encouraged use of official translation, potentially improved data quality



RQ3. How prepared were interviewers in each group?

| After training | Control Interviewers | Treatment Interviewers | |
|-------------------------|---|----------------------------------|--|
| Knew how to reassure | x Reported needing training | ✓ Reported feeling prepared to | |
| Spanish-speaking | on respondent concerns | | |
| respondents | (e.g., immigration status) | reassure respondents | |
| | | ✓ Could build rapport in Spanish | |
| Knew how to conduct the | conduct the w in Spanishx Reported needing practice interviewing in Spanish | ✓ Could explain 2020 Census in | |
| | | Spanish | |
| interview in spanish | | ✓ Familiar with Spanish | |
| | | questionnaire | |

• Findings suggest Treatment Interviewers more prepared than Control Interviewers

• Role-playing exercises were particularly beneficial for Treatment Interviewers



Discussion

- Modest evidence suggesting experimental training was beneficial (even with under-assignment)
 - Findings can't speak to cost / feasibility
- Training built on prior research
 - Confirms value of collaborating with interviewers



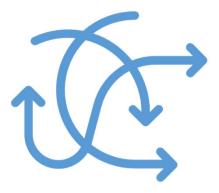
- Ultimately, CBSM researchers recommend
 - Implementing training
 - Expanding training to additional languages
 - Pairing interviewers up for practice scenarios
 - Adding new topics (e.g., answering questions on race/ethnicity items, etc.)
 - Continuing to debrief with interviewers



Interviewers and Official Translations



- Recruiting bilingual interviewers may be difficult
 - Some may speak but not read fluently in non-English language
- Connection between official translations and data quality is not necessarily obvious to interviewers
- Gaining "buy-in" can be complicated
 - Some may prefer their translation to official translation
 - Monitoring in non-English languages may be less robust
 - Interviewers collect data under challenging circumstances





Survey Designers and Official Translations

- Survey designers may grapple with similar blind spots
 - Why is translation on-the-fly problematic?
 - Why training and practice interviewing in non-English languages necessary?
- Consider these questions for interviewing in English
 - Would improvising English question wording problematic?
 - Would training and practice conducting interviews in English be necessary?
- May face resource constraints







Conclusion

- Increasingly seeing investment into more accurately surveying speakers of non-English languages
- Stakes are high roughly*:

and representativeness

- 22% of people living in U.S. (ages 5+) speak a language other than English at home
- 8% of people living in U.S. (ages 5+) are considered "Limited English Speaking"
- 4% of U.S. households are considered "Limited English Speaking"

Preparing bilingual interviewers is a key component of data equity

- Training for bilingual interviewers is a good starting point
 - Has potential to improve data quality and efficiency

*Source: 2022 American Community Survey, 1-year and 5- year estimate





Questions?

Mikelyn.V.Meyers@census.gov



Citations

- Groves, R., Fowlder, F., Couper, M., Lepkowski, J., Singer, E., Tourangeau, R. (2009). Survey Methodology (2nd ed.). Hoboken, NJ: Wiley.
- Meyers, M., Ellis, R., Raim, A., Goerman, P., Kephart, K., Aspinwall, K., LeBaron, P., Peytcheva, E. (2024). "2020 Census Experiment Report: Evaluation of Spanish-speaking Enumerator Training Experiment." 2020 Census Memorandum Series. Available online (forthcoming June 2024)
- National Academies of Sciences, Engineering, and Medicine. 2023. Assessing the 2020 Census: Final Report. Washington, DC: The National Academies Press. <u>https://doi.org/10.17226/27150</u>.
- Pan, Y., & Lubkemann, S. (2013). "Observing Census Enumeration of Non-English Speaking Households in the 2010 Census: Evaluation Report." Available at <u>https://www2.census.gov/programs-surveys/decennial/2010/program-management/5-review/cpex/2010-cpex-249.pdf</u>.
- U.S. Census Bureau. (2023.) "Planning Database (2015, 2016, 2018-2022)." Available at <u>https://www.census.gov/data/developers/data-sets/planning-database.html</u>.

