

James D. Harnsberger
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Education

Ph.D. (1998), Linguistics, The University of Michigan.
Dissertation Title: “The perception of non-native nasal contrasts: A cross-linguistic perspective.”
Doctoral Committee Chair: Professor Patrice S. Beddor.

B.A. (1991), English, Virginia Polytechnic Institute & State University.

Positions Held

Assistant Professor, Department of Communication Sciences and Disorders, University of Florida, August 2005 – present.

Adjunct/Courtesy Assistant Professor, Institute for Advanced Study of the Communication Processes (IASCP), Department of Communication Sciences and Disorders, University of Florida, August 2001 – July 2005.

Adjunct Assistant Professor, Program in Linguistics, University of Florida, August 2002 – April 2003.

Post-Doctoral Research Fellow, Speech Research Laboratory, Department of Psychology, Indiana University, August 1998 – July 2001.

Research Assistant, Department of Linguistics, The University of Michigan, September 1994 - July 1998.

Grants

PI, Department of Defense Grant, \$820,000, 2007 - 2010 (submitted), “Research needs of intelligence groups: Detection of stress and deception in speech and voice.”

Co-PI, Department of Defense Grant, \$336,000, 2005 - 2006 (funded), “Voice stress analyzer instrument evaluation.”

PI, NIH (NIDCD) R03 Modular Grant, \$150,000, 2004 - 2006 (funded), “Phonetic and prosodic effects in perceptual assimilation.”

Co-PI, NSF Grant (Linguistics), \$98,000 over 2 years (not funded), “Indian Englishes: Theoretical implications of segmental variation.”

PI, NIH (NIDCD) R21 Modular Grant, \$150,000 over 2 years (not funded), “Perceptual relevance of acoustic cues to age in voice.”

Co-PI, NSF Grant (Linguistics), \$262,000 over 2 years (not funded), “Indian English and American English: Segmental versus prosodic differences in cross-dialectal communication.”

PI, NSF Grant (Linguistics and Human Cognition and Performance), \$172,000 over 2 years (not funded), “The role of language aptitude in cross-language speech perception and second language learning.”

Co-PI, Alcoholic Beverage Medical Research Foundation Grant, \$75,000 over 2 years (not funded), “Segmental aspects of speech as cues to ethanol intoxication level: An acoustic analysis.”

Teaching and Research Interests

Phonetics, Phonology, Speech Perception, Stress and Deception in Speech, Language and Aging, Language and Memory, Second Language Acquisition, American English Dialects.

Research Experience

Assistant Professor, IASCP, University of Florida.

- Developed and collaborated on grant proposals; topics included cross-language speech perception, stress and deception in speech, language and aging, speech and intoxication, language aptitude, and cross-dialectal communication.
- Conducted and supervised research on the acoustics and perception of voice characteristics of younger and older speakers.
- Conducted research on the perception of non-native speech sounds.
- Conducted research on the acoustic characteristics of English dialects spoken in northern and southern India.
- Supervised research on the effect of intoxication on the articulation of speech sounds.

Post-Doctoral Research Fellow, with Professor David Pisoni.

- Developed method for eliciting different speaking styles under laboratory conditions, in collaboration with Prof. Pisoni and Dr. R. Wright.
- Investigated the perception and representation in long-term memory of voice characteristics.
- Designed and piloted, as part of a multimember team, a large-scale database of American English regional dialects.
- Conducted research on the vowel perception abilities of post-lingually deafened adult users of cochlear implants with scientists at Indiana University and the Department of Otolaryngology-Head and Neck Surgery, IUPUI School of Medicine.
- Investigated the role of short-term memory capacity in individual differences in cross-language speech perception.
- Assessed the capacity of different cross-language speech perception models in accounting for the perception of a wide variety of speech sounds by listeners of numerous different linguistic backgrounds.

Research Assistant, with Professor Patrice Beddor.

- Acoustic analyzed a large cross-language speech database
- Designed and managed a phonetics lab, including installing and maintaining hardware, software, and local-area networks
- Wrote programs for analysis and experimentation
- Conducted speech perception experiments and ran statistical tests

Refereed Journal Articles

- Hollien, H., Harnsberger, J. D., Martin, C., and Hollien, K. (submitted). "Evaluation of the CVSA voice stress analyzer" *Journal of Forensic Sciences*.
- Hollien, H., Harnsberger, J. D., Martin, C., Hill, R. and Alderman, G. A. (submitted). "Listeners' judgments of intoxication level" *Journal of the Acoustical Society of America*.
- Harnsberger, J. D., Wayland, R., and Silver, J. (submitted, under revision). "Methodological issues in the perceptual assimilation of non-native speech sounds: The perception of Hindi voicing contrasts by American English listeners" *Journal of the Acoustical Society of America*.
- Harnsberger, J. D. (submitted, under revision). "The role of short-term memory and phonological coding in cross-language speech perception." *Phonetica*.
- Harnsberger, J. D., Shrivastav, R., Brown, W.S., Jr., Rothman, H., Hollien, H. (in press). "Speaking rate and fundamental frequency as cues to perceived age in speech." *Journal of Voice*.
- Wiltshire, C. and Harnsberger, J. D. (2006). "The influence of Gujarati and Tamil L1s on Indian English: A Preliminary Study." *World Englishes* 25: 91 – 104.
- Beddor, P. S., Harnsberger, J. D., Lindeman, S. (2002). "Language-specific patterns of vowel-to-vowel coarticulation: Acoustic structures and their perceptual correlates." *Journal of Phonetics* 30: 591-627.
- Harnsberger, J. D. (2001). "The perception of Malayalam nasal consonants by Marathi, Punjabi, Tamil, Oriya, Bengali, and American English listeners: A multidimensional scaling analysis." *Journal of Phonetics* 29: 303-327.
- Harnsberger, J. D. (2001). "On the relationship between identification and discrimination of non-native nasal consonants." *Journal of the Acoustical Society of America* 110: 489-503.
- Harnsberger, J. D., Svirsky, M. A., Kaiser, A. R., Pisoni, D. B., Wright, R., and Meyer, T. A. (2001). "Perceptual "vowel spaces" of cochlear implant users: Implications for the study of auditory adaptation to spectral shift." *Journal of the Acoustical Society of America* 109: 2135-2145.
- Harnsberger, J. D. (2000). "A cross-language study of the identification of non-native nasal consonants varying in place of articulation." *Journal of the Acoustical Society of America* 108: 764-783.

Other Publications

- Hollien, H. and Harnsberger, J. D. (2006). "Voice Stress Analyzer Instrumentation Evaluation." Final Report for Department of Defense Counterintelligence Field Activity Contract – FA 4814-04-0011.
- Hollien, H. and Harnsberger, J. D. (2006). "The Use of Voice in Security Applications." *Journal of Credibility Assessment and Witness Psychology* 7: 17-168.
- Clopper, C. G., Carter, A. K., Dillon, C. M., Pisoni, D. B., Hernandez, L. R., Clarke, C. M., Harnsberger, J. D., and Herman, R. (2002). "The Indiana Speech Project: An overview of the development of a multi-talker multi-dialect speech corpus." Research on Spoken Language Processing Report No. 25, Bloomington, IN: Speech Research Laboratory, Indiana University.

- Harnsberger, J. D. (2000). "The influence of short-term and long-term memory on the identification and discrimination of non-native sounds." Research on Spoken Language Processing Report No. 24, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Harnsberger, J. D., Wright, R., and Pisoni, D. B. (2000). "Effects of speaking style on the perceptual learning of novel voices: A first report." Research on Spoken Language Processing Report No. 24, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Harnsberger, J. D. and Goshert, L. A. (2000). "Reduced, citation, and hyperarticulated speech in the laboratory: An acoustic analysis." Research on Spoken Language Processing Report No. 24, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Clopper, C. G., Carter, A. K., Dillon, C. M., Harnsberger, J. D., Herman, R., Clarke, C. M., Pisoni, D. B., and Hernandez, L. R. (2000). "A multi-talker dialect corpus of spoken American English: An initial report on development." Research on Spoken Language Processing Report No. 24, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Harnsberger, J. D. (1999). "The effect of linguistic experience on perceptual similarity among nasal consonants." Research on Spoken Language Processing Report No. 23, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Harnsberger, J. D. and Pisoni, D. B. (1999). "Eliciting speech reduction in the laboratory II: Calibrating cognitive loads for individual talkers." Research on Spoken Language Processing Report No. 23, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Harnsberger, J. D., Svirsky, M., Kaiser, A., Wright, R., and Pisoni, D. B. (1999). "The 'vowel spaces' of normal-hearing individuals and cochlear-implant users." Research on Spoken Language Processing Report No. 23, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Harnsberger, J. D. (1999) "Perceptual similarity among nasals varying in articulation: A multidimensional scaling solution." In the Proceedings of the 14th International Congress of Phonetic Sciences.
- Harnsberger, J. D. (1999) "A comparison of three metrics of perceptual similarity in cross-language speech perception." BLS 25: 157-168.
- Harnsberger, J. D. (1998) "The perception of place of articulation in three coronal nasal contrasts." In the Proceedings of the 135th Meeting of the Acoustical Society of America / 16th International Congress on Acoustics, 1998.

Presentations

- Silver, J. and Harnsberger, J. D. "The organization of bilingual perceptual consonant space: English/Spanish bilingual perception of Malayalam nasal consonants" To be presented at the 152nd Meeting of the Acoustical Society of America, 2006.
- Harnsberger, J. D., Kahan, D., and Hollien, H. "The use of auditory and visual information in the perception of stress in speech." To be presented at the 152nd Meeting of the Acoustical Society of America, 2006.
- Harnsberger, J. D., Brown, W. S., Rothman, H. B., Morris, R. J. and Shrivastav, R. "Vocal Aging in Male and Female Singers and Nonsingers." Presented at the 35th Annual Symposium: Care of the professional voice, The Voice Foundation, 2006.

- Harnsberger, J. D., Wayland, R., and Silver, J. "Perceptual assimilation in context and isolation." Presented at the 151st Meeting of the Acoustical Society of America, 2006.
- Wayland, R., Li, Bin, Csonka, L. and Harnsberger, J. D. "Effects of experience on speech perception in noise." Presented at the 151st Meeting of the Acoustical Society of America, 2006.
- Harnsberger, J. D., Rothman, H. B., Brown, W. S., Shrivastav, R. and Hollien, H. "Cues to vocal aging in older and middle-aged male voices." Presented at the 34th Annual Symposium: Care of the professional voice, The Voice Foundation, 2005.
- Harnsberger, J. D., Shrivastav, R., and Skowronski, M. "The role of psychophysical difference in the discrimination of non-native contrasts." Presented at the 149th Meeting of the Acoustical Society of America, 2005.
- Harnsberger, J. D., Yeon, S.-H., and Silver, J. "Optimizing measures of the perceptual assimilation of stop consonants." Presented at the 148th Meeting of the Acoustical Society of America, 2004.
- Yeon, S.-H., Wayland, R., Harnsberger, J. D., and Silver, J. "Stability in perceptual assimilation: Talker and vowel context effects." Presented at the 148th Meeting of the Acoustical Society of America, 2004.
- Wiltshire, C. W. and Harnsberger, J. D. "Segmental and prosodic characteristics of Indian English." Presented at Laboratory Phonology IX, 2004.
- Rothman, H. B., Shrivastav, R., H., Brown, W. S., Harnsberger, J. D. and Hollien, "Fundamental frequency and speaking rate as perceptual cues for aging in male speakers." Presented at the 33rd Annual Symposium: Care of the professional voice, The Voice Foundation, 2004.
- Shrivastav, R., Hollien, H., Brown, W. S., Rothman, H. B., and Harnsberger, J. D. "Shifting perceptions of age in voice." Presented at the 146th Meeting of the Acoustical Society of America, 2003.
- Harnsberger, J. D. "The interaction of short-term and long-term memory in phonetic category formation." Presented at the 143rd Meeting of the Acoustical Society of America, 2002.
- Wright, R., Harnsberger, J. D., Pisoni, D. B., Svirsky, M., and Kaiser, A. "Comparing perception and production vowel spaces of cochlear implant users." Presented at the 141st Meeting of the Acoustical Society of America, 2001.
- Harnsberger, J. D., Pisoni, D. B., and Wright, R. "Eliciting reduced, citation, and hyperarticulated speech in the laboratory: Acoustic and perceptual analyses." Presented at the 141st Meeting of the Acoustical Society of America, 2001.
- Harnsberger, J. D. and Pisoni, D. B. "Individual differences in cross-language speech perception." Presented at the 75th Annual Meeting of the Linguistic Society of America, 2001.
- Harnsberger, J. D., Pisoni, D. B., and Wright, R. "Eliciting speech styles in the laboratory: Assessment of a new experimental method." Presented at the 140th Meeting of the Acoustical Society of America, 2000.
- Harnsberger, J. D., Pisoni, D. B., Svirsky, M., Kaiser, A., and Wright, R. "The 'vowel spaces' of normal-hearing individuals and cochlear-implant users." Presented at the 139th Meeting of the Acoustical Society of America, 2000.
- Harnsberger, J. D. "Mapping the 'vowel spaces' of normal-hearing listeners and patients with cochlear implants." Indiana University Linguistics Speaker Series, 2000.

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- Harnsberger, J. D. "Perceptual similarity among nasals varying in articulation: A multidimensional scaling solution." Presented at the 14th International Congress of Phonetic Sciences, 1999.
- Harnsberger, J. D. "The role of metrical structure in Hindi intonation." Presented at the South Asian Analysis Roundtable, 1999.
- Harnsberger, J. D. "A comparison of three metrics of perceptual similarity in cross-language speech perception." Presented at the 25th Meeting of the Berkeley Linguistics Society, 1999.
- Harnsberger, J. D. "The perception of place of articulation in three coronal nasal contrasts." Presented at the 135th Meeting of the Acoustical Society of America / 16th International Congress on Acoustics, 1998.
- Harnsberger, J. D. "Quantifying phonetic similarity among nasal consonants." Presented at the 1998 Annual Meeting of the Linguistic Society of America.
- Harnsberger, J. D. "The identification and discrimination of a non-native nasal series by Bengali and American English listeners." Presented at the 133rd Meeting of the Acoustical Society of America, 1997.
- Harnsberger, J. D. "Towards an intonational phonology of Hindi." Presented at Laboratory Phonology V, 1996.
- Harnsberger, J. D. and Judge, J. "Pitch range and focus in Hindi." Presented at the 131st Meeting of the Acoustical Society of America, 1996.

Courses Taught

- SPA 3101 – Speech Anatomy and Physiology, Fall 2006, U. of Florida.
- SPA 2024 –Human Communication Dynamics, Fall 2005, U. of Florida.
- LIN 2210 - Phonetic Theory and Transcription, Spring 2003, Fall 2006, U. of Florida.
- LIN 3201 - Sounds of Human Language, Spring 2003, U. of Florida.
- LIN 4323 - Introduction to Phonology, Fall 2002, U. of Florida.
- Linguistics 112 - Languages of the World, Summer 1994, Summer 1995, U. of Michigan.
- Linguistics 305 - Advertising and Political Discourse, Fall 1992, Fall 1994, U. of Michigan.
- English Language Institute 320 & 321, Academic Writing, Winter 1994, Fall 1994, U. of Michigan.
- Technical Communications 610 - Technical Writing, Winter 1993, Fall 1993, U. of Michigan.
- English Language Institute 336 & 337, Pronunciation I & II, Winter 1992, Fall 1993, U. of Michigan.
- Linguistics 211 - Introduction to Language, Winter 1992, Summer 1992, Winter 1993, Winter 1994, U. of Michigan.

Professional Organizations

- Acoustical Society of America, 1996-present.
- Linguistic Society of America, 1997- present.
- International Phonetics Association, 1999-present.
- The Voice Foundation, 2005.

Fellowships, Awards and Honors

SPARC award for mentoring (ASHA), 2005.
Faculty Honoree for Teaching, Fall Academic Convocation, University of Florida, 2003.
NIH Post-Doctoral Research Fellowship, August 1998 - 2001.
University of Michigan Rackham Dissertation Grant, Fall 1997.
University of Michigan Rackham Discretionary Funds Award, 1997.
University of Michigan Program in Linguistics Block Grant, 1997.
University of Michigan Rackham Dissertation Expenses Award, 1996.
Linguistic Society of America Summer Institute Fellowship, 1993.
President of English Honors Society, Virginia Polytechnic Institute & State University, 1990-1991.

Service

Policy and Web Committee, Department of Communication Sciences and Disorders, University of Florida, 2005 - 2006.
Library Liaison, Department of Communication Sciences and Disorders, University of Florida, 2005 – 2006.
Speech Discussion Group, Department of Communication Sciences and Disorders, University of Florida, 2002-2005.
Reviewer, Language and Cognitive Sciences, 2003.
Grant Reviewer, NSF Linguistics, 2002.
Reviewer, *Phonetica*, 2001, 2002.
Reviewer, *Journal of Phonetics*, 2001.
Reviewer, *Ear and Hearing*, 2000.
Reviewer, *Journal of Speech, Language, and Hearing Research*, 2000.
Reviewer, *Journal of the Acoustical Society of America*, 1998, 2001, 2004, 2005.

References

Professor Patrice Beddor, Department of Linguistics, U. of Michigan, Ann Arbor, MI, 48109, beddor@umich.edu.
Professor Emeritus Harry Hollien, Institute for the Advanced Study of the Communication Process, U. Florida, Gainesville, FL, 32611, hollien@grove.ufl.edu.
Associate Professor Caroline Wiltshire, Program in Linguistics, U. Florida, Gainesville, FL, 32611, wiltshir@ufl.edu.