

CURRICULUM VITAE

January 6, 2022

David B. Pisoni

Home Address: 3702 Reed Court
Bloomington, Indiana 47401
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Born: New York City, New York
November 25, 1945

Marital Status: Married
No children

Military Status: (IIA)

I. EDUCATION:

Massachusetts Institute of Technology
Cambridge, MA

NIH Post-doctoral Fellowship
1975-1976

University of Michigan
Ann Arbor, MI

Ph.D., August, 1971

Queens College of the
City University of New York
Flushing, NY

B.A., June, 1968

II. Professional Experience:

Distinguished Professor of
Psychological and Brain Sciences

Indiana University, Bloomington
1/12 to Present

Chancellors' Professor of
Psychology and Cognitive Science

Indiana University, Bloomington
10/96 to 12/11

Professor of Psychology
and Cognitive Science

Indiana University, Bloomington
8/71 to 10/96

Adjunct Professor of
Otolaryngology-Head and
Neck Surgery

Indiana University School of Medicine, Indianapolis
8/93 to Present

Adjunct Professor of
Linguistics

Indiana University, Bloomington
12/90 to Present

Adjunct Professor of Speech and Hearing Sciences	Indiana University, Bloomington 2/07 to Present
Director, Speech Research Laboratory	Indiana University, Bloomington 11/1/73 to Present
Editorial Board	<u>Speech Technology</u> , 11/81 to Present
Editorial Board	<u>Computer Speech and Language</u> , 1/86 to Present
Associate Editor	<u>Perception & Psychophysics</u> , 7/78 to 8/85
Research Associate, Visiting Scientist	Speech Communications Group, Research Laboratory of Electronics Massachusetts Institute of Technology, 9/75 to 7/76; 9/78 to 6/79; 9/85 to 6/86
Member-Editorial Board	<u>Cognitive Psychology</u> , 1/74 to 12/76
Member-Study Section	NIMH Personality and Cognition, Research Review Committee 7/1/74 to 6/30/78
Consulting Editor	<u>Perception & Psychophysics</u> , 6/75 to 6/78
Visiting Research Associate	Haskins Laboratories, Yale University 6/72 - 8/72; 6/73 - 8/73
Visiting Research Fellow	Haskins Laboratories, 6/70 - 5/71
Teaching Fellow	Department of Psychology University of Michigan, 7/69 - 1/71
Research Assistant	Verbal Behavior Project, Biometrics Research New York State Department of Mental Hygiene, 6/65 - 8/68

III. Teaching Interests & Experience:

Cognitive Science, Language & Cognition, Psycholinguistics, Speech Perception and Production, Human Memory, Psychology of Reading, Cognitive Psychology, Introductory Psychology, Sensation & Perception, Human Factors Engineering, Applied Human Learning

IV. Current Research Interests:

Speech Perception, Production and Synthesis, Speech Analysis and Recognition, Experimental Psycholinguistics, Human Memory, Cognition, Developmental Processes in Speech and Language, Experimental Phonetics & Phonology, Reading, Word Recognition and Lexical Access, Spoken Language Understanding, Artificial Intelligence, Voice Technology, Human Factors of Speech I/O, Hearing Impairment, Cochlear Implants

V. Professional Memberships:

Acoustical Society of America
The Psychonomic Society
Association for Research in Otolaryngology
American Association for Advancement of Science
National Academy of Sciences, Committee on Hearing and Bioacoustics (CHABA)

VI. Consulting Activities:

Texas Instruments, IBM Corp., Honeywell, National Bureau of Standards, Bell Labs (Naperville, Lincroft & Murray Hill), Speech Plus, Digital Equipment Corp., General Motors Research Labs, GTE, Pitney Bowes, MIT-Lincoln Labs, Sparta, Inc., National Transportation Safety Board, Nippon Telephone & Telegraph, Ordinate Corp. Hughes Research Labs

VII. Honors and Awards:

President, Queens College Chapter of Psi Chi (1967-1968)
Magna Cum Laude - Queens College, June (1968)
Rackham Prize Fellow - University of Michigan (1970-1971)
Guggenheim Fellow - (1978-1979)
Who's Who in America - (1981)
Distinguished Faculty Research Lecture Award - Indiana University (1982)
Fellow - American Association for the Advancement of Science (1982)
James McKeen Cattell Award - (1985-1986)
Jacob K. Javits Neuroscience Investigator Award - (1987-1994)
Claude Pepper Award - (1990-1994)
Fellow - Acoustical Society of America (1994)
Tracy M. Sonneborn Teaching Award - (1996)
Chancellor's Professor of Psychology and Cognitive Science – (1996)
Society of Experimental Psychologists (SEP) – (2008)
Silver Medal in Speech Communication – (2010)
Distinguished Professor of Psychological and Brain Sciences – (2012)

VIII. Publications:

A. Books

1. Restle, F., Shiffrin, R. M., Castellan, N. J., Lindman, H., Pisoni, D. B. (Eds.). (1975). Cognitive Theory: Volume I. Hillsdale, NJ Lawrence Erlbaum Associates.
2. Castellan, N. J., Pisoni, D. B. & Potts, G. (Eds.). (1977). Cognitive Theory: Volume II. Hillsdale, NJ: Lawrence Erlbaum Associates.
3. Chin, S.B. & Pisoni, D.B. (1997). Alcohol and Speech. San Diego, CA: Academic Press.
4. Pisoni, D.B. & Remez, R.E. (Eds.). (2005). The Handbook of Speech Perception. Malden, MA: Blackwell Publishing.
5. Pardo, J., Nygaard, L. C., Remez, R. E., & Pisoni, D. B. (2021). *Handbook of Speech Perception*. (Second Edition). Hoboken, NJ: Wiley-Blackwell.

B. Journal Articles & Book Chapters

1968

1. Pisoni, D. B. & Gerstman, L. J. Semantic and syntactic constraints on sentence reconstruction by the Cloze Procedure. Proceedings of the American Psychological Association, 1968, 3, 13-14.

1969

2. Tanur, J. M. & Pisoni, D. B. A Fortran IV program for scoring Cloze Procedure data. Behavioral Science, 1969, 14, 167.
3. Pisoni, D. B. Communicability in schizophrenic patients and its relationship to current psycholinguistic theory. In A. P. Van Teslaar & S. Rosenberg (Eds.) Studies in language and language behavior. Ann Arbor: University of Michigan, Center for Research on Language & Language Behavior, February, 1969, Pp. 299-313.

1970

4. Salzinger, K., Portnoy, S., Pisoni, D. B., & Feldman, R. S. The immediacy hypothesis and response produced stimuli in schizophrenic speech. Journal of Abnormal Psychology, 1970, 76, 258-264. PubMed PMID: 5483373.
5. Catford, J. C. & Pisoni, D. B. Auditory versus articulatory instruction in the teaching of exotic sounds. Modern Language Journal, 1970, 54, 477-481.
6. Schane, S.A. & Pisoni, D.B. Psycholinguistic evidence for a hierarchy of syllable structure. In Studies in Language and Language Behavior, Progress Report Phase VI, July 31, 1970, Ann Arbor: University of Michigan, Center for Research on Language & Language Behavior, Pp. 1-10.

1971

7. Pollack, I. & Pisoni, D. B. On the comparison between identification and discrimination tests in speech perception. Psychonomic Science, 1971, 24, 299-300.
8. Pisoni, D. B. On the nature of categorical perception of speech sounds. New Haven: Haskins Laboratories Supplement to Status Report on Speech Research. SR-27, November, 1971, pp. 101.

1972

9. Studdert-Kennedy, M., Shankweiler, D., & Pisoni, D. B. Auditory and phonetic processes in speech perception: Evidence from a dichotic study. Cognitive Psychology, 1972, 3, 455-466. PMID: 23255833; PMCID: PMC3523680.
10. Pisoni, D. B. Perceptual processing time for consonants and vowels. Haskins Laboratories Status Report on Speech Research, SR 31/32, 1972, 83-92.
11. Turvey, M.T., Pisoni, D.B., & Croog, J. F. A right ear advantage in the retention of words presented monaurally. Haskins Laboratories Status Report on Speech Research, SR 31/32, 1972, 67-74.

1973

12. Pisoni, D. B. Auditory and phonetic memory codes in the discrimination of consonants and vowels. Perception & Psychophysics, 1973, 13, 253-260. PMID: 23226880; PMCID: PMC3515632.
13. Pisoni, D. B. & Tash, J. Test questions for human information processing: An introduction to psychology, by P. Lindsay & D. A. Norman. New York: Academic Press, 1973, pp. 82.

1974

14. Shiffrin, R. N., Pisoni, D. B. and Casteneda-Mendez, K. Is attention shared between the ears? Cognitive Psychology, 1974, 6, 190-215. PMID: 23226838; PMCID: PMC3516367.
15. Pisoni, D. B. & Tash, J. Reaction times to comparisons within and across phonetic categories. Perception & Psychophysics, 1974, 15, 285-290. PMID: 23226881; PMCID: PMC3515635.
16. Pisoni, D. B. & Lazarus, J. H. Categorical and noncategorical modes of speech perception along the voicing continuum. Journal of the Acoustical Society of America, 1974, 55, 328-333. PubMed PMID: 4821837; PMCID: PMC3517997.
17. Sawusch, J. R. & Pisoni, D. B. On the identification of place and voicing features in synthetic stop consonants. Journal of Phonetics, 1974, 2, 181-194.
18. Pisoni, D. B. & McNabb, S. D. Dichotic interactions and phonetic feature processing. Brain & Language, 1974, 1, 351-362.

1975

19. Pisoni, D.B. Auditory short-term memory and vowel perception. Memory & Cognition, 1975, 3, 7-18.
20. Pisoni, D. B. Review of "Acoustic Cues for Constituent Structure" by Robert Scholes. Linguistics, 1975, 146, 104-106.

21. Pisoni, D. B. Contemporary issues in speech perception. In F. Restle, R. M. Shiffrin, N. J. Castellan, H. Lindman, & D. B. Pisoni (Eds.) Cognitive Theory: Volume I. Hillsdale, NJ: Erlbaum Associates, 1975, Pp. 1-4.
22. Pisoni, D. B. Dichotic listening and processing phonetic features. In F. Restle, R. M. Shiffrin, N. J. Castellan, H. Lindman, & D. B. Pisoni (Eds.) Cognitive Theory: Volume I. Hillsdale, NJ: Erlbaum Associates, 1975, Pp. 79-102.
23. Pisoni, D. B. Information processing and speech perception. In G. Fant (Ed.) Speech Communication: Volume 3. New York: John Wiley, 1975, Pp. 331-337.
24. Pisoni, D. B. & Sawusch, J. R. Some stages of processing in speech perception. In A. Cohen & S. Nooteboom (Eds.) Structure and process in speech perception. Heidelberg: Springer-Verlag, 1975, Pp. 16-34.
25. Pisoni, D. B. & Tash, J. Auditory property detectors and processing place features in stop consonants. Perception & Psychophysics, 1975, 18, 401-408. PMID: 23204593; PMCID: PMC3510704.

1976

26. Pisoni, D. B. Review of "The Psychology of Language" by J. A. Fodor, T. G. Bever and M. F. Garrett. Language, 1976 52, 682-689.
27. Pisoni, D. B. Mechanisms of auditory discrimination and coding of linguistic information. In J. V. Irwin (Ed.) The Second Auditory Processing and Learning Disabilities Symposium. Memphis: Memphis State University Press, 1976, Pp. 73-119.
28. Sawusch, J. R. & Pisoni, D. B. Response organization in selective adaptation to speech sounds. Perception & Psychophysics, 1976, 20, 413-418. PMID: 422814.

1977

29. Pisoni, D. B. Identification and discrimination of the relative onset of two component tones: Implications for voicing perception in stop consonants. Journal of the Acoustical Society of America, 1977, 61, 1352-1361. PMID: 881488.
30. Liberman, A. M. & Pisoni, D. B. Evidence for a special speech perception subsystem in the human. In T. H. Bullock (Ed.) Recognition of Complex Acoustic Signals. Berlin: Dahlem Konferenzen, 1977. Pp. 59-76.

1978

31. Pisoni, D. B. Speech Perception. In W. K. Estes (Ed.) Handbook of Learning and Cognitive Processes: Volume 6. Hillsdale, NJ: Erlbaum Associates, 1978, Pp. 167-233.
32. Cutting, J. E. & Pisoni, D. B. An information processing approach to speech perception. In J. F. Kavanagh & W. Strange (Eds.) Implications of Basic Speech and Language Research to the School and Clinic. Cambridge: The M.I.T. Press, 1978, Pp. 38-72.

33. Sawusch, J. R. & Pisoni, D. B. Simple and contingent adaptation effects in speech perception. Perception & Psychophysics, 1978, 23, 125-131. PMID: 23204594; PMCID: PMC3510706.

1979

34. Pisoni, D. B. On the perception of speech sounds as biologically significant signals. Brain, Behavior, and Evolution, 1979, 16, 330-350. PMID: 399200; PMCID: PMC3512094.
35. Pisoni, D. B. Review of "Speech Recognition" by R. Reddy. Journal of the Acoustical Society of America, 1979, 65, 867-869.
36. Pisoni, D. B. Perception of speech vs. nonspeech: Evidence for different modes of processing. Proceedings of the Ninth International Congress of Phonetic Sciences, Copenhagen, August, 1979. Copenhagen: Institute of Phonetics, University of Copenhagen, 1979, Pp. 433-437.
37. Grunke, M. E. & Pisoni, D. B. Perceptual learning of mirror image acoustic patterns. Proceedings of the Ninth International Congress of Phonetic Sciences, Copenhagen, August, 1979. Copenhagen: Institute of Phonetics, University of Copenhagen, 1979, Pp. 461-467.
38. Bell-Berti, F., Raphael, L., Pisoni, D. B. & Sawusch, J. R. Some relations between speech production and perception. Phonetica, 1979, 36, 373-383. PMID: 542499.
39. Pisoni, D. B., Carrell, T. D. & Simnick, S. S. Does a listener need to recover the dynamic vocal tract gestures of a talker to recognize his vowels? In J. J. Wolf and D. H. Klatt (Eds.) Speech Communication Papers Presented at the 97th Meeting of the Acoustical Society of America. New York: Acoustical Society of America, 1979, Pp. 19-23.
40. Aslin, R. N., Pisoni, D. B., Hennessy, B. L. & Perey, A. J. Identification and discrimination of a new linguistic contrast. In J. J. Wolf and D. H. Klatt (Eds.) Speech Communication Papers Presented at the 97th Meeting of the Acoustical Society of America. New York: Acoustical Society of America, 1979, Pp. 439-442.

1980

41. Aslin, R. N. & Pisoni, D. B. Some developmental processes in speech perception. In G. Yeni-Komshian, J. F. Kavanagh, & C. A. Ferguson (Eds.) Child Phonology: Perception and Production, New York: Academic Press, 1980, Pp. 67-96.
42. Pisoni, D. B. Adaptation of the relative onset time of two-component tones. Perception & Psychophysics, 1980, 28, 337-346. PMID: 7465317; PMCID: PMC3495321.
43. Jusczyk, P. W., Pisoni, D. B., Walley, A. & Murray, J. Discrimination of relative onset time of two-component tones by infants. Journal of the Acoustical Society of America, 1980, 67, 262-270. PMID: 7354194; PMCID: PMC3507379.
44. Aslin, R. N. & Pisoni, D. B. Effects of early linguistic experience on speech discrimination by infants: A critique of Eilers, Gavin and Wilson (1979). Child Development, 1980, 51, 107-112. PMID: 7363730; PMCID: PMC3514872.

45. Gruenenfelder, T. M. & Pisoni, D. B. Fundamental frequency as a cue to postvocalic consonantal voicing: Some data from perception and production. Perception & Psychophysics, 1980, 28, 514-520. PMID: 7208264; PMCID: PMC3512096.
46. Pisoni, D. B. Summary of Symposium No. 8: Perception of Speech versus Nonspeech. Proceedings of the Ninth International Congress of Phonetic Sciences, Copenhagen, August, 1979. Copenhagen: Institute of Phonetics, University of Copenhagen, 1980. Pp. 312-320.
47. Pisoni, D. B. Variability of vowel formant frequencies and the Quantal Theory of Speech: A first report. Phonetica, 1980, 37, 285-305. PMID: 7280032; PMCID: PMC3507382.
48. Pisoni, D. B. & Hunnicutt, S. Perceptual evaluation of MITalk: The MIT unrestricted text-to-speech system. 1980 IEEE International Conference Record on Acoustics, Speech, and Signal Processing, April, 1980. Pp. 572-575.
49. Bernstein, J. & Pisoni, D. B. Unlimited text-to-speech device: Description and evaluation of a micro-processor-based system. 1980 IEEE International Conference Record on Acoustics, Speech, and Signal Processing, April, 1980. Pp. 576-579.

1981

50. Carrell, T. D., Smith, L. B. & Pisoni, D. B. Some perceptual dependencies in speeded classification of vowel color and pitch. Perception & Psychophysics, 1981, 29, 1-10. PMID: 7243524; PMCID: PMC3499945.
51. Remez, R. E., Rubin, P. E., Pisoni, D. B. & Carrell, T. D. Speech perception without traditional speech cues. Science, 1981, 212, 947-950. PMID: 7233191.
52. Walley, A. C., Pisoni, D. B. & Aslin, R. N. The role of early experience in the development of speech perception. In R. N. Aslin, J. Alberts and M. R. Petersen (Eds.), The Development of Perception: Psychobiological Perspectives. New York: Academic Press, 1981. Pp. 219-255.
53. Blank, M. A., Pisoni, D. B. & McClaskey, C. Effects of target monitoring on understanding fluent speech. Perception & Psychophysics, 1981, 29, 383-388. PMID: 7279562; PMCID: PMC3508463.
54. Aslin, R. N., Pisoni, D. B., Hennessy, B. L. & Perey, A. J. Discrimination of voice-onset time by human infants: New findings and implications for the effects of early experience. Child Development, 1981, 52, 1135-1145. PMID: 7318516; PMCID: PMC3499965.
55. Pisoni, D. B. Some current theoretical issues in speech perception. Cognition, 1981, 10, 249-259. PMID: 7198545.

1982

56. Pisoni, D. B., Aslin, R. N., Perey, A. J. & Hennessy, B. L. Some effects of laboratory training on identification and discrimination of voicing contrasts in stop consonants. Journal of Experimental Psychology: Human Perception and Performance, 1982, 8, 297-314. PMID: 6461723; PMCID: PMC3495319.

57. Grunke, M. E. & Pisoni, D.B. Some experiments on perceptual learning of mirror-image acoustic patterns. Perception & Psychophysics, 1982, 31, 210-218. PMID: 7088662; PMCID: PMC3499963.
58. Brunner, H. & Pisoni, D.B. Some effects of perceptual load on spoken text comprehension. Journal of Verbal Learning and Verbal Behavior, 1982, 21, 186-195.
59. Walley, A. C. & Pisoni, D. B. Review of J. Morton & J. Marshall (Ed.), "Psycholinguistics." Journal of Communication Disorders, 1982, 15, 63-73.
60. Pisoni, D. B. Perception of speech: The human listener as a cognitive interface. Speech Technology, 1982, 1, 10-23.
61. Pisoni, D. B. Perceptual evaluation of voice response systems: Intelligibility, recognition and understanding. Proceedings of the Workshop on Standardization for Speech I/O Technology. Washington, DC: National Bureau of Standards, 1982, 183-192.
62. Nusbaum, H. C. & Pisoni, D. B. Perceptual and cognitive constraints on the use of voice response systems. In L. Lerman (Ed.), Proceedings of the Conference on Voice Data Entry Systems. Sunnyvale: Lockheed, 1982, Pp. 1-18.
63. Pisoni, D. B. Speech Technology: The Evolution of Computers that Speak...and Listen. Bloomington: Indiana University Office of Research & Graduate Development, 1982, Pp. 38.
64. Pisoni, D. B. Lexical access. In A. S. House (Ed.), Project SCAMP 1981: Acoustic Phonetics and Speech Modeling. Princeton, NJ: Institute for Defense Analyses, Communications Research Division, 1982.
65. Pisoni, D. B. In defense of segmental representations in speech processing. In A. S. House (Ed.), Project SCAMP 1981: Acoustic Phonetics and Speech Modeling. Princeton, NJ: Institute for Defense Analyses, Communications Research Division, 1982.

1983

66. McClaskey, C. L., Pisoni, D. B. and Carrell, T. D. Transfer of training of a new linguistic contrast in voicing. Perception & Psychophysics, 1983, 34, 323-330. PMID: 6657433; PMCID: PMC3495317.
67. Sinnott, J. M., Pisoni, D. B. & Aslin, R. N. A Comparison of Pure Tone Thresholds in Human Infants and Adults. Infant Behavior and Development, 1983, 6, 3-17. PMID: 23255836; PMCID: PMC3523360.
68. Pisoni, D. B., Carrell, T. D. & Gans, S. J. Perception of the duration of rapid spectrum changes: Evidence for context effects with speech and nonspeech signals. Perception & Psychophysics, 1983, 34, 314-322. PMID: 6657432; PMCID: PMC3513373.
69. Aslin, R. N., Pisoni, D. B. & Jusczyk, P. W. Auditory development and speech perception in infancy. In P. Mussen (Ed.), Carmichael's Manual of Child Psychology, 4th Edition, Volume II: Infancy and the Biology of Development, M. M. Haith and J. J. Campos (Vol. II Editors). New York: Wiley and Sons, 1983. Pp. 573-687.

70. Luce, P. A., Feustel, T. C. & Pisoni, D. B. Capacity demands in short-term memory for synthetic and natural word lists. Human Factors, 1983, 25, 17-32. PMID: 6840769; PMCID: PMC3513698.
71. Remez, R. E., Rubin, P. E. & Pisoni, D. B. Coding of the speech spectrum in three time-varying sinusoids. In C. W. Parkins & S. W. Anderson (Eds.), Cochlear Prosthesis: An International Symposium. New York: Annals of the New York Academy of Sciences, Volume 405, 1983. Pp. 485-489. PMID: 6575670.
72. Kewley-Port, D., Pisoni, D. B. & Studdert-Kennedy, M. Perception of static and dynamic acoustic cues to place of articulation in initial stop consonants. Journal of the Acoustical Society of America, 1983, 73, 1779-1793. PMID: 6223060; PMCID: PMC3515858.
73. Greene, B. G., Craig, J. C., Wilson, A. M., Pisoni, D. B. & Rhodes, R. P. Vibrotactile identification of vowels. Journal of the Acoustical Society of America, 1983, 73, 1766-1778. PMID: 6223059.
74. Greene, B. G., Craig, J. C. & Pisoni, D. B. Vibrotactile communication of information about consonants: Vowels mask consonants. Perception & Psychophysics, 1983, 33, 507-515. PMID: 6622185.
75. Jusczyk, P. W., Pisoni, D. B., Reed, M., Fernald, A. & Myers, M. Infants' discrimination of the duration of a rapid spectrum change in nonspeech signals. Science, 1983, 222, 175-177. PMID: 6623067.
76. Pisoni, D. B., Nusbaum, H. C., Luce, P. A. & Schwab, E. C. Perceptual evaluation of synthetic speech: Some considerations of the user/system interface. Proceedings of the International Conference on Acoustics, Speech, and Signal Processing, April 1983. Pp. 535-538.
77. Nusbaum, H.C., Schwab, E. C. & Pisoni, D.B. Perceptual evaluation of synthetic speech: Some constraints on the use of voice response systems. Proceedings of the 3rd Voice Data Entry Systems Applications Conference. Sunnyvale, CA: Lockheed, 1983.

1984

78. Kewley-Port, D. & Pisoni, D. B. Identification and discrimination of rise-time: Is it categorical or noncategorical? Journal of the Acoustical Society of America, 1984, 75, 1168-1176. PMID: 6725765; PMCID: PMC3507428.
79. Walley, A. C., Pisoni, D. B. & Aslin, R. N. Infant discrimination of two- and five-formant voiced stop consonants differing in place of articulation. Journal of the Acoustical Society of America, 1984, 75, 581-589. PMID: 6699297; PMCID: PMC3514865.
80. Greene, B. G., Pisoni, D. B. & Carrell, T. D. Recognition of speech spectrograms. Journal of the Acoustical Society of America, 1984, 76, 32-43. PMID: 6747109.
81. Nusbaum, H. C. & Pisoni, D. B. Perceptual evaluation of synthetic speech generated by rule. In Proceedings of the 4th Voice Data Entry Systems Application Conference, September, 1984.

1985

82. Salasoo, A. & Pisoni, D. B. Interaction of Knowledge Sources of Spoken Word Identification. Journal of Memory and Language, 1985, 24, 210-231. PMID: 23226691; PMCID: PMC3513696.
83. Pisoni, D. B. Speech perception: Some new directions in research and theory. Journal of the Acoustical Society of America, 1985, 78, 381-388. PMID: 4031245; PMCID: PMC3517998.
84. Pisoni, D. B., Nusbaum, H. C., Luce, P. A. & Slowiaczek, L. M. Speech perception, word recognition and the structure of the lexicon. Speech Communication, 1985, 4, 75-95. PMID: 23226910; PMCID: PMC3514871.
85. Nusbaum, H. C. & Pisoni, D. B. Constraints on the perception of synthetic speech generated by rule. Behavior Research Methods, Instruments, and Computers, 1985, 17, 235-242.
86. Pisoni, D. B., Bernacki, R. H., Nusbaum, H. C. & Yuchtman, M. Some acoustic-phonetic correlates of speech produced in noise. In Proceedings of 1985 International Conference on Acoustics, Speech, and Signal Processing. Pp. 1581-1584.
87. Pisoni, D. B., Nusbaum, H. C. & Greene, B. G. Perceptual evaluation of synthetic speech generated by rule. Proceedings of the IEEE, 1985, 73, 1665-1676.
88. Pisoni, D. B., Greene, B. G. & Nusbaum, H. C. Some human factors issues in the perception of synthetic speech. Proceedings of Speech Tech-85, New York, April, 1985. Pp. 57-61.
89. Greenspan, S. L., Nusbaum, H. C. & Pisoni, D. B. Perception of synthetic speech: Effects of training and attention. In Proceedings of the 5th Voice Data Entry Systems Applications Conference, September, 1985.
90. Schwab, E. C., Nusbaum, H. C. & Pisoni, D. B. Some effects of training on the perception of synthetic speech. Human Factors, 1985, 27, 395-408. PMID: 2936671; PMCID: PMC3499950.

1986

91. Pisoni, D. B. Contextual variability and the problem of acoustic-phonetic invariance in speech. In J. Perkell and D. H. Klatt (Eds.), Invariance and Variability in Speech Processes. Hillsdale, New Jersey: Lawrence Erlbaum Associates, 1986, Pp. 154-161.
92. Greene, B.G., Logan, J.S. & Pisoni, D.B. Perception of synthetic speech produced automatically by rule: Results from eight text-to-speech systems. Behavior Research Methods, Instruments, and Computers, 1986, 18, 100-107. PMID: 23225916; PMCID: PMC3512093.
93. Pisoni, D. B. & Luce, P. A. Speech perception: Research, theory and the principal issues. In E. C. Schwab and H. C. Nusbaum (Eds.), Pattern Recognition by Humans and Machines: Speech Perception. Volume 1. New York: Academic Press, 1986, pp. 1-50.
94. Pisoni, D. B., Yuchtman, M. & Hathaway, S. N. Effects of alcohol on the acoustic- phonetic properties of speech. In Alcohol, Accidents and Injuries. Warrendale, PA: Society of Automotive Engineers, 1986, pp. 131-150.

95. Slowiaczek, L. M. & Pisoni, D. B. Effects of phonological similarity on priming in auditory lexical decision. Memory & Cognition, 1986, 14, 230-237. PMID: 3736396; PMCID: PMC3512099.
96. Nusbaum, H. C. & Pisoni, D. B. Human factors issues for the next generation of speech recognition systems. Proceedings of Speech Tech -86. New York: Media Dimensions, 1986, pp. 140-144.
97. Nusbaum, H. C. & Pisoni, D. B. The role of structural constraints in auditory word recognition. In P. Mermelstein, M. Lenning, and D. O'Shaughnessy, (Eds.), Montreal Symposium on Speech Recognition. Montreal: Canadian Acoustical Society, 1986, pp. 57-61.
98. Pisoni, D. B. A brief overview of speech synthesis and recognition technologies. In Proceedings of the Human Factors Society, Vol. 2. Santa Monica, CA: Human Factors Society, 1986, pp. 1326-1330.
99. Pisoni, D. B. & Nusbaum, H. C. Developing methods for assessing the performance of speech synthesis and recognition systems. In Proceedings of the Human Factors Society, Vol. 2. Santa Monica, CA: Human Factors Society, 1986, pp. 1344-1348.

1987

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In Press

1. Casserly, E.D. & Pisoni, D.B. (In Press). Effects of Real-Time Acoustic Signal Transformation on

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1. Tamati, T. N., Pisoni, D. B. (Under Revision). The McFAE Corpus: A Multi-talker Corpus of Foreign-Accented English.
2. Tamati, T. N., Faulkner, K. F. & Pisoni, D. B. (Submitted). Assessment of High-variability Speech Recognition in Cochlear Implant Users.
3. Harris, M. S., Hamel, B. L., Wichert, K., Kozlowski, K., Mleziva, S., Ray, C., Pisoni, D. B., Moberly, A. C. (Submitted). The relative contributions of verbal learning and memory and spectro-temporal processing to speech recognition in adult cochlear implant users. *Otology and Neurotology*.
4. Herbert, C.A., Pisoni, D. B., Kronenberger, W.G. & Nelson, R.F. (Submitted). Exceptional Speech Recognition Outcomes after Cochlear Implantation: Lessons from Two Case Studies. *American Journal of Audiology*.

IX. Research Grants & Contracts: (* = In Progress)

1. Principal Investigator . . . PHS NIMH Research Grant (MH-24027) "The Speech Mode and Categorical Perception" November 1, 1973 - October 31, 1976. Total Direct Costs: \$64,000.
2. Principal Investigator . . . PHS NINCDS Research Grant (NS-12179) "Auditory and Phonetic Processes in Speech Perception" June 1, 1975 - May 31, 1979. Total Direct Costs: \$206,746.
3. Principal Investigator . . . PHS NIMH Research Grant (MH-24027) "Perceptual Analysis of Speech Sounds" April 1, 1978 - March 31, 1982. Total Direct Costs: \$269,192.
4. Co-Principal Investigator (with R. N. Aslin) . . . PHS NICHD Research Grant (HD-11915) "Perception of Speech and Nonspeech Sounds in Infants" April 1, 1978 - March 31, 1981. Total Direct Costs: \$128,353.
5. Program Director . . . PHS NIH NINCDS Post-doctoral Training Grant (NS-07134) "Training in Speech, Hearing, and Sensory Communication" July 1, 1979 - June 30, 1984. Total Direct Costs: \$137,539.
6. Principal Investigator . . . PHS NINCDS Research Grant (NS-12179) "Speech Perception, Analysis and Synthesis" December 1, 1980 - November 30, 1983. Total Direct Costs: \$287,086.
7. Principal Investigator . . . NSF Research Grant "Analysis and Interpretation of Speech Spectrograms" March 1, 1981 - February 28, 1982. Total Direct Costs: \$18,242.
8. Co-Principal Investigator (with R. N. Aslin) . . . PHS NICHD Research Grant (HD-11915) "Perception of Speech and Nonspeech Sounds in Infants" July 1, 1981 - June 30, 1983. Total Direct Costs: \$97,961.

9. Principal Investigator . . . Air Force Office of Scientific Research, Air Force Systems Command AFAMRL 82-25 "Perception of Synthetic Speech by Human Observers" October 1, 1982 - December 31, 1985. Total Costs: \$167,806.
10. Principal Investigator . . . NSF Research Grant "Analysis and Interpretation of Speech Spectrograms" August 1, 1983 - July 31, 1986. Total Costs: \$140,000.
11. Principal Investigator . . . DoD Air Force Office of Scientific Research, University Research Instrumentation Program "Instrumentation for a Real-time Multi-user Speech Processing Facility" June 1, 1983 - May 31, 1984. Total Costs: \$301,088.
12. Principal Investigator . . . PHS NINCDS Research Grant (NS-12179) "Speech Perception, Analysis and Synthesis" December 1, 1983 - February 29, 1988. Total Direct Costs: \$687,022.
13. Program Director . . . PHS NIH NINCDS Post-doctoral Training Grant (NS-07134) "Training in Speech, Hearing, and Sensory Communication" July 1, 1984 - September 24, 1989. Total Direct Costs: \$528,388.
14. Principal Investigator . . . IBM Corp. Contract No. 435114 "Performance of Speech Recognizers." July 1, 1984 - April 30, 1986. Total Costs: \$130,000.
15. Principal Investigator . . . Digital Equipment Corp. External Research Grant Program, Agreement No. 136 "Perceptual Evaluation of Synthetic Speech Generated by Text-to-Speech Systems." June 14, 1984 - December 31, 1985. Total Equipment Credits: \$100,000.
16. Principal Investigator . . . General Motors Research Labs "A Preliminary Study to Investigate the Assessment of Blood Alcohol Level Through Acoustic-Phonetic Analyses of Speech." July 1, 1984 - February 28, 1986. Total Costs: \$30,000.
17. Principal Investigator . . . Air Force Aerospace Medical Research Labs "Acoustic-Phonetic Analyses of Speech Produced in Noise." July 1, 1985 - December 31, 1985. Total Costs: \$48,862.
18. Principal Investigator . . . Armstrong Aerospace Medical Research Laboratory Contract (86-C-0549) "Speech Perception and Production in Severe Environments." July 1, 1986 - June 30, 1990. Total Costs: \$459,893.
19. Principal Investigator . . . NSF Research Grant (IRI-8617847) "Perception of Synthetic Speech Generated by Rule." February 1, 1987 - January 31, 1991. Total Costs: \$293,912.
20. Principal Investigator . . . PHS NIDCD Research Grant (DC-00111) "Speech Perception and Spoken Word Recognition." March 1, 1988 - November 30, 1994. Total Direct Costs: \$1,637,392. [Jacob K. Javits Neuroscience Investigator Award, 1988-1995]
21. Program Director . . . PHS NIDCD Training Grant (DC-00012) "Training in Speech, Hearing, and Sensory Communication." September 25, 1989 - June 30, 1994. Total Direct Costs: \$447,586.
22. Co-Investigator . . . PHS NIA Research Grant (AG 08293) "Speech Recognition by the Hearing-Impaired Elderly." PI= L. Humes, Speech & Hearing Sciences. May 1, 1990 - April 30, 1995. Total Direct Costs: \$507,000.

23. Co-Investigator . . . PHS NIAAA (AA07611-06)"Center on Genetic Determinants of Alcohol Ingestants." PI= T.K. Li, I.U. Medical Center, December 1, 1992 - November 30, 1997. Total Direct Costs: \$5,856,680.
24. Program Director . . . PHS NIDCD Training Grant (T32 DC-00012) "Training in Speech, Hearing and Sensory Communication." July 1, 1994 - June 30, 1999. Total Direct Costs: \$1,457,250.
25. Principal Investigator . . . PHS NIDCD Research Grant (DC-00111) "Speech Perception and Spoken Word Recognition." December 1, 1994 - November 30, 1999. Total Direct Costs: \$2,686,274.
26. Co-Principal Investigator . . . PHS NIDCD Research Grant "Comparison of Sensory Aids in Deaf Children." PI= R.T. Miyamoto, I.U. Medical Center, April 1, 1995 - March 31, 2000. Total Direct Costs: \$2,539,226.
27. Principal Investigator . . . Alcoholic Beverage Medical Research Foundation Grant "Effects of Alcohol on Speech Production." June 1, 1995 - May 31, 1998. Total Direct Costs: \$75,000.
28. Co-Investigator . . . Indiana University Strategic Direction Initiatives "Linguistic, Cognitive, and Sensory Factors Underlying the Clinical Effectiveness of Pediatric Cochlear Implants." July 1, 1998 - June 30, 2000. Total Direct Costs: \$321,742.
29. Program Director . . . PHS NIDCD Training Grant (T32 DC-00012) "Training in Speech, Hearing and Sensory Communication." July 1, 1999 - June 30, 2004. Total Direct Costs: \$1,898,088.
30. Principal Investigator . . . PHS NIDCD Research Grant (DC-00111) "Speech Perception and Spoken Word Recognition." December 1, 1999 - November 30, 2005. Total Direct Costs: \$1,858,931.
31. Co-Principal Investigator . . . PHS NIDCD Research Grant (DC-006235) "Speech Perception by Infants after Cochlear Implantation." July 1, 2003 - June 30, 2008. Total Direct Costs: \$1,693,125. (PI= Derek Houston)
32. Co-Principal Investigator . . . PHS NIDCD Research Grant (DC-006682) "Multimodal Perception by Infants with Cochlear Implants." April 1, 2004 – March 31, 2007. Total Direct Costs: \$564,375. (PI= Tonya Bergeson-Dana)
33. Program Director . . . PHS NIDCD Training Grant (T32 DC-00012) "Training in Speech, Hearing and Sensory Communication." July 1, 2005 - June 30, 2009. Total Direct Costs: \$2,970,896.
34. Principal Investigator . . . PHS NIDCD Research Grant (DC-00111) "Speech Perception and Spoken Word Recognition." April 1, 2006 – March 12, 2012. Total Direct Costs: \$2,086,687.
35. Principal Investigator . . . PHS NIDCD R55 Research Grant (DC-00958) "Neurocognitive Processes in Deaf Children with Cochlear Implants." August 1, 2008 – July 31, 2010. Total Direct Costs: \$100,000.
36. Co-Investigator...PHS NIDCD Research Grant (DC-00064) "Speech Perception and Spoken Word Recognition by Children with Cochlear Implants." Principal Investigator R.T. Miyamoto, February 1, 2006 – January 31, 2009. Total Direct Costs: \$1,071,956.
37. Program Director . . . PHS NIDCD Training Grant (T32 DC-00012) "Training in Speech, Hearing and Sensory Communication." July 1, 2009 - June 30, 2015. Total Direct Costs: \$3,296,475.

38. Principal Investigator . . . PHS NIDCD R01 Research Grant (DC-009581)“Neurocognitive Processes in Deaf Children with Cochlear Implants.” September 1, 2009 – August 30, 2015. Total Direct Costs: \$2,421,678.
39. Principal Investigator . . . PHS NIDCD Research Grant (DC-00111) "Speech Perception and Spoken Word Recognition." July 1, 2011 – June 30, 2018. Total Direct Costs: \$2,091,572.
40. Principal Investigator . . . IU Grant Linking University-Wide Expertise (GLUE) – CTSI. “Verbal Learning and Memory in Post-Lingually Deaf Adults Following Cochlear Implantation” June 1, 2017 – December 31, 2020. Total Direct Costs: \$65,630.

***** (In Progress)*****

- *41. Principal Investigator . . . PHS NIDCD Research Grant (DC015257) “Executive Functioning and Speech-Language Skills in Cochlear Implant Users” December 1, 2016 - November 30, 2022 Total Direct Costs: \$1,198,699. (M-PI w/William Kronenberger)
- *42. Principal Investigator . . . PHS NIDCD Research Grant (DC014956) “Family Processes in Developmental Outcome of Pediatric Hearing Loss” August 1, 2016 – July 31, 2022. Total Direct Costs: \$564,814. (M-PI w Rachael Holt)
- *43. Co-Investigator...PHS NIA Research Grant (AG061788-01) “Multi-Domain Sensory Measures as Biomarkers of Alzheimer’s Disease in Preclinical and Prodromal Stages” S. L Risacher (PI) 12/01/18 - 11/30/23. Total Direct Costs: \$3,169,152.