

JACKSON T. GANDOUR

Curriculum Vitae

Purdue University
Department of Speech Language Hearing Sciences
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EDUCATION

Ph.D.	University of California, Los Angeles	1976 Linguistics
M.A.	University of Pittsburgh	1968 Linguistics
B.A.	Wheeling Jesuit University	1963 Political Science

Educational program on human brain mapping. Seventh International Conference on Functional Mapping of the Human Brain, Brighton, England, June 10, 2001

Functional magnetic resonance imaging (fMRI): an introductory course. Medical College of Wisconsin, Milwaukee, October 29-31, 1998

Brain mapping course. Fourth International Conference on Functional Mapping of the Human Brain, Montreal, Canada, June 7-8, 1998

Boston Diagnostic Aphasia Examination Workshop. Marshfield Clinic, St. Joseph's Hospital, Marshfield, WI, May 23-25, 1979

Postdoctoral Fellowship, Department of Linguistics and Speech Analysis, Bell Laboratories, Murray Hill, New Jersey, 1976-77

HONORS

1976 Academic Distinction Award, Division of Humanities, UCLA

ACADEMIC POSITIONS

1988-	Professor, Department of Speech Language Hearing Sciences, Purdue University
1988-1989	Senior Fulbright Research Scholar, Mahidol University, Bangkok, Thailand
1983-1988	Associate Professor, Department of Audiology and Speech Sciences, Purdue University
1977-1983	Assistant Professor, Department of Audiology and Speech Sciences, Purdue University
1968-1969	Visiting Fulbright Lecturer, English Department, Niigata University, Japan
1964-1966	Peace Corps Volunteer, English Department, Phangnga High School, Thailand

ADMINISTRATIVE POSITIONS

2003-2006	Director, NIH Predoctoral & Postdoctoral Training Grant in Communicative Disorders, Department of Speech Language Hearing Sciences, Purdue University
1995-1998	Head, Department of Audiology and Speech Sciences, Purdue University
1993-1995	Interim Head, Department of Audiology and Speech Sciences, Purdue University

PROFESSIONAL ACTIVITIES

Editorial Board

Language Sciences (1990-92); *Brain and Language* (1993-2011); *Aphasiology* (2002-2011)

Guest Associate Editor

Journal of Speech Language Hearing Research (2009)

Editorial Consultant (44)

Aphasiology; Asia Pacific Journal of Speech Language Hearing; Bilingualism: Language and Cognition; Brain and Cognition; Brain; Brain and Language; Brain Imaging and Behavior; Brain Research; Brain Research Bulletin; Cerebral Cortex; Clinical Linguistics and Phonetics; Cognition; Cognitive and Behavioral Neurology; Ear and Hearing; Experimental Brain Research; Folia Phoniatrica et Logopaedica; Hearing Science; Human Brain Mapping; International Journal of Language and Communication Disorders; Journal of the Acoustical Society of America; Journal of Child Language; Journal of Cognitive Neuroscience; Journal of Memory and Language; Journal of Neuroscience; Journal of Phonetics; Journal of Speech and Hearing Disorders; Journal of Speech and Hearing Research; Journal of Speech Language Hearing Research; Language; Language and Cognitive Processes; Language and Speech; Language Learning; Laterality: Asymmetries of Body, Brain and Cognition; Lingua; Natural Language and Linguistic Theory; Neurocase; NeuroImage; Neuropsychologia; Neuroscience; Neuroscience Letters; Phonetica; PLoS ONE; Proceedings of the National Academy of Sciences USA; Trends in Cognitive Sciences

Grant Reviewer (10)

Australian Research Council; Fonds FCAR, Quebec, Canada; Medical Research Council, Canada; MITRE Corporation, USA; National Institutes of Health, USA; National Science Council, Taiwan; National Science Foundation, USA; Natural Sciences and Engineering Research Council, Canada; Research Grants Council, Hong Kong; Social Sciences and Humanities Research Council of Canada

Scientific Grant Review Panel Member

NIH, Special Emphasis Panel, Institutional Training Grant and Mentored Clinical Scientist Development Awards (1997)

Professional Organizations/Committees

Cognitive Neuroscience Society (1998-2007)
Organization for Human Brain Mapping (1998-2006)
Academy of Aphasia (1990-2001)
Linguistic Society of America (1972-1995)
Language Review Committee, Linguistic Society of America (1987-88)
Scientific Reviewer, Academy of Aphasia (1998-2000)
Scientific Reviewer, International Congress of Phonetic Sciences (2007, 2011)
Scientific Reviewer, Psycholinguistic Representation of Tone Conference (2011)

Project Advisor

Suan Sunandha Rajabhat University, Bangkok, Thailand (2005-2010)

PUBLICATIONS

Journal Articles (169)

Gandour, J. (1974). The glottal stop in Siamese: predictability in phonological description. *Pasaa* (Thailand), 4(2), 66-78.
Gandour, J. (1974). Consonant types and tone in Siamese. *Journal of Phonetics*, 2, 337-350.
Gandour, J. (1975). The features of the larynx: n-ary or binary? *Phonetica*, 32, 241-253.

- Gandour, J. (1975). Evidence from Lue for contour tone features. *Pasaa* (Thailand), 5(2), 39-52.
- Gandour, M. J., & Gandour, J. (1976). A glimpse at shamanism in southern Thailand. *Journal of the Siam Society* (Thailand), 64(1), 97-103.
- Gandour, J., & Maddieson, I. (1976). Measuring larynx movement in standard Thai using the cricothyrometer. *Phonetica*, 33, 241-267.
- Maddieson, I., & Gandour, J. (1977). Vowel length before aspirated consonants. *Indian Linguistics*, 38, 6-11.
- Gandour, J. (1977). On the interaction between tone and vowel length: evidence from Thai dialects. *Phonetica*, 34, 54-65.
- Gandour, J. (1977). Counterfeit tones in the speech of Southern Thai bidialectals. *Lingua*, 41, 125-143.
- Gandour, J. (1977). Notes on Phuket Thai. *Journal of the Siam Society* (Thailand), 65(2), 189-198.
- Gandour, J., & Harshman, R. (1978). Crosslanguage differences in tone perception: a multidimensional scaling investigation. *Language and Speech*, 21, 1-33.
- Gandour, J. (1978). Perceived dimensions of thirteen tones: a multidimensional scaling investigation. *Phonetica*, 35, 169-179.
- Gandour, J., & Fromkin, V. A. (1978). On the phonological representation of contour tones. *Linguistics of the Tibeto-Burman Area*, 4(1), 73-74.
- Gandour, J. (1978). Talking backwards about sex (etc.) in Thai. *Maledicta*, 2(1/2), 111-114.
- Gandour, J., Garding, E., & Lindell, K. (1978). Tones in Northern Kammu: a perceptual investigation. *Acta Orientalia*, 39, 181-189.
- Gandour, J. (1978). On the deictic use of verbs of motion 'come' and 'go' in Thai. *Anthropological Linguistics*, 20, 381-394.
- Gandour, J. (1980). Speech therapy and teaching English to speakers of other languages. *Journal of Speech and Hearing Disorders*, 45, 133-136.
- Gandour, J., Weinberg, B., & Rutkowski, D. (1980). Influence of postvocalic consonants on vowel duration in esophageal speech. *Language and Speech*, 23, 149-158.
- Gandour, J., & Weinberg, B. (1980). On the relationship between vowel height and fundamental frequency: evidence from esophageal speech. *Phonetica*, 37, 344-354.
- Gandour, J. (1981). A diagnostic aphasia examination for Thai. *Siriraj Hospital Gazette* (Thailand), 33(6), 403-408.
- Gandour, J. (1981). The nondeviant nature of deviant phonological systems. *Journal of Communication Disorders*, 14, 11-29.
- Gandour, J. (1981). Perceptual dimensions of tone: evidence from Cantonese. *Journal of Chinese Linguistics*, 9(1), 20-36.
- Fey, M., & Gandour, J. (1982). Rule discovery in phonological acquisition. *Journal of Child Language*, 9, 71-81.
- Fey, M., & Gandour, J. (1982). The pig dialogue: phonological systems in transition. *Journal of Child Language*, 9, 517-519.
- Gandour, J., & Dardarananda, R. (1982). Voice onset time in aphasia: Thai. I. perception. *Brain and Language*, 17, 24-33.
- Gandour, J., Dardarananda, R., Vibulsreth, S., & Buckingham, Jr., H. (1982). Case study of a Thai transcortical motor aphasic. *Language and Speech*, 25, 127-150.
- Gandour, J., Buckingham, Jr., H., Dardarananda, R., Stawathumrong, P., & Holasuit Petty, S. (1982). Case study of a Thai conduction aphasic. *Brain and Language*, 17, 327-358.
- Gandour, J., & Weinberg, B. (1982). Perception of contrastive stress in alaryngeal speech. *Journal of Phonetics*, 10, 347-359.
- Gandour, J., Weinberg, B., & Kosowsky, A. (1982). Perception of syntactic stress in alaryngeal speech. *Language and Speech*, 25, 299-304.

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- Gandour, J., Dardarananda, R., Buckingham, Jr., H., & Viriyavejakul, A. (1982). A diagnostic examination for aphasia in Thai. *Nursing Newsletter (Thailand)*, 9(1), 47-66.
- Gandour, J., & Weinberg, B. (1983). Perception of intonational contrasts in alaryngeal speech. *Journal of Speech and Hearing Research*, 26, 78-84.
- Gandour, J., Weinberg, B., & Garziona, B. (1983). Perception of lexical stress in alaryngeal speech. *Journal of Speech and Hearing Research*, 26, 418-424.
- Gandour, J., & Dardarananda, R. (1983). Identification of tonal contrasts in Thai aphasic patients. *Brain and Language*, 18, 98-114.
- Gandour, J. (1983). Tone perception in Far Eastern languages. *Journal of Phonetics*, 11, 149-175.
- Holasuit Petty, S., & Gandour, J. (1983). Some auditory language comprehension tests for Thai aphasic patients. *Siriraj Hospital Gazette (Thailand)*, 35(8), 750-752.
- Gandour, J. (1983). A two-mode three-way data base for multidimensional measurement models of perception. *Psychological Documents*, 13, 2-3. (Ms. No. 2530)
- Gandour, J. (1984). Individual differences in the production of voice onset time in aphasia. *Psychological Documents*, 14, 3-4. (Ms. No. 2606)
- Holasuit Petty, S., & Gandour, J. (1984). Some auditory language comprehension tests for Thai aphasic patients. *Nursing Newsletter (Thailand)*, 11(1), 25-29.
- Holasuit Petty, S., & Gandour, J. (1984). A handedness questionnaire for Thai aphasic patients. *Nursing Newsletter (Thailand)*, 11(1), 20-24.
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- Gandour, J. (1984). Vowel duration in Thai. *Crossroads: An Interdisciplinary Journal of Southeast Asian Studies*, 2(1), 59-64.
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- Camarata, S., & Gandour, J. (1984). On describing idiosyncratic phonologic systems. *Journal of Speech and Hearing Disorders*, 49, 262-266.
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- Camarata, S., & Gandour, J. (1985). Rule invention in the acquisition of morphology by a language-impaired child. *Journal of Speech and Hearing Disorders*, 50, 40-45.
- Gandour, J., & Weinberg, B. (1985). Production of syntactic stress in alaryngeal speech. *Language and Speech*, 28, 295-306.
- Gandour, J., Dardarananda, R., & Vejjajiva, A. (1985). Case study of a Thai Broca aphasic with an adaptation of the Boston Diagnostic Aphasia Examination. *Journal of the Medical Association of Thailand (Thailand)*, 68, 552-563.

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- Camarata, S., & Gandour, J. (1985). Evidence for the feature [diffuse]?. *Journal of Phonetics*, 13, 473-475.
- Gandour, J., Weinberg, B., & Holasuit Petty, S. (1985). Production of lexical stress in alaryngeal speech. *Folia Phoniatica*, 37, 279-286.
- Holasuit Petty, S., Gandour, J., & Jirakupt, S. (1985). A picture arrangement test for eliciting connected discourse from Thai aphasic patients. *Nursing Newsletter* (Thailand), 12(4), 42-48.
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- Gandour, J., Marshall, R., & Windsor, J. (1989). Idiosyncratic strategies in sentence production: A case report. *Brain and Language*, 36, 614-624.
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- Gandour, J., Holasuit Petty, S., & Dardarananda, R. (1989). Dysprosody in Broca's aphasia: A case study. *Brain and Language*, 37, 232-257.
- Gandour, J., Holasuit Petty, S., & Dardarananda, R. (1989). Tonal disruption in the speech of a language-delayed Thai adult. *Clinical Linguistics and Phonetics*, 3, 191-202.
- Gandour, J., Holasuit Petty, S., & Dardarananda, R. (1989). A case study of abnormal phonological development in Thai. *Linguistics of the Tibeto-Burman Area*, 12(1), 156-185.
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- subcortical aphasia. *Journal of Neurolinguistics*, 5, 333-351.
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- Swanson, L., Leonard, L., & Gandour, J. (1992). Vowel duration in mothers' speech to young children. *Journal of Speech and Hearing Research*, 35, 617-625.
- Gandour, J., & Dechongkit, S. (1992). Aphasia in a Thai-speaking patient with a hemorrhagic lesion in the left basal ganglia. *Ramathibodi Medical Journal* (Thailand), 15, 111-116.
- Gandour, J., Ponglorpisit, S., Khunadorn, F., Dechongkit, S., Boongird, P., & Boonklam, R. (1992). Timing characteristics of speech after brain damage: Vowel length in Thai. *Brain and Language*, 42, 337-345.
- Gandour, J., Ponglorpisit, S., Khunadorn, F., Dechongkit, S., Boongird, P., Boonklam, R., Potisuk, S. (1992). Lexical tones in Thai after unilateral brain damage. *Brain and Language*, 43, 275-307.
- Gandour, J., Ponglorpisit, S., & Dardarananda, R. (1992). Tonal disturbances in Thai after brain damage. *Journal of Neurolinguistics*, 7, 133-145.
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- Gandour, J., Potisuk, S., Dechongkit, S., & Ponglorpisit, S. (1992). Anticipatory tonal coarticulation in Thai noun compounds. *Linguistics of the Tibeto-Burman Area*, 15(1), 111-124.
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- Gandour, J., Dechongkit, S., Ponglorpisit, S., Khunadorn, F., & Boongird, P. (1993). Intraword timing relations in Thai after unilateral brain damage. *Brain and Language*, 45, 160-179.
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- in Thai. *Journal of Language and Linguistics* (Thailand), 12(1), 57-75.
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- Gandour, J. (1979). Perceptual dimensions of tone: Thai. In N. D. Liem (Ed.), *Southeast Asian linguistic studies* (Vol. 3, pp. 277-300). Canberra: Department of Linguistics, Research School of Pacific Studies, Australian National University. [= *Pacific Linguistics* (Series C), No. 45]
- Gandour, J. (1979). Perceptual dimensions of Cantonese tones: a multidimensional scaling reanalysis of Fok's tone confusion data. In N. D. Liem (Ed.), *Southeast Asian linguistic studies* (Vol. 4, pp. 415-429). Canberra: Department of Linguistics, Research School of Pacific Studies, Australian National University. [= *Pacific Linguistics* (Series C), No. 49]

- Gandour, J. (1979). Tonal rules for English loan words in Thai. In T. Thongkum, P. Kullavanijaya, V. Panupong and M.R.K. Tingsabath (Eds.) *Studies in Tai and Mon-Khmer phonetics and phonology in honour of Eugenie J. A. Henderson* (pp. 94-105). Bangkok: Chulalongkorn University Press.
- Gandour, J. (1979). Tonal rules for English loan words in Thai. In N. D. Liem (Ed.), *Southeast Asian linguistic studies* (Vol. 4, pp. 131-144). Canberra: Department of Linguistics, Research School of Pacific Studies, Australian national University. [= *Pacific Linguistics* (Series C), No. 49]
- Gandour, J., & Gandour, M.J. (1982). The relative frequency of tones in Thai. In D. Bradley (Ed.), *Papers in Southeast Asian linguistics, tonation* (No. 8, pp. 155-159). Canberra: Department of Linguistics, Research School of Pacific Studies, Australian National University. [= *Pacific Linguistics* (Series A), No. 62]
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- Chandrasekaran, B., Gandour, J.T., & Krishnan, A. (2009). Neuroplasticity in the preattentive processing of linguistic pitch: Evidence from cross-language and cross-domain studies. *Festschrift in linguistics, applied linguistics, language and literature in honor of Prof. Dr. Udom Warotamasikkhadit* (pp. 68-86). Bangkok: Saha Thammik.
- Zatorre, R., & Gandour, J.T. (2009). Neural specializations for speech and pitch: Moving beyond the dichotomies. In B.C.J. Moore, L.K. Tyler, & W. Marslen-Wilson (Eds.), *The perception of speech: From sound to meaning* (pp. 275-304). Oxford University Press. Reprinted from *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*. 363(1493), 1087-1104 (2008).
- Gandour, J.T. (2011). In tribute: Arthur S. Abramson. In T. Luangthongkum (Ed.), *Thai sounds: An acoustic study* (in English and Thai; pp. 14-21). Bangkok: Chulalongkorn University Press.
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Conference Proceedings

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- Potisuk, S., Harper, M., & Gandour, J. (1995). Speaker-independent automatic classification of Thai tones in connected speech by analysis-synthesis method. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing* (Vol. 1: Speech, pp. 632-635).
- Gandour, J., Potisuk, S., & Harper, M. (1996). Effects of stress on vowel length in Thai. *Proceedings of the 4th International Symposium on Language and Linguistics: Pan-Asiatic Linguistics* (Vol. 1: Language Description, pp. 95-103). Salaya, Thailand: Institute of Language and Culture for Rural Development, Mahidol University at Salaya.
- Potisuk, S., Harper, M., & Gandour, J. (1996). Using stress to disambiguate spoken Thai sentences containing syntactic ambiguity. *Proceedings of the 4th International Conference on Spoken Language Processing* (Vol. 2, pp. 801-804). Newark, DE: University of Delaware and Alfred I. DuPont Institute.
- Gandour, J., Dziedzic, M., Wong, D., Lowe, M., Xu, Y., Tong, Y., & Li, X. (2003). Specialization of posterior prefrontal cortex: Segmentation or something else. In M.J. Solé, D. Recasens, & J. Romero (Eds.), *Proceedings of the 15th International Congress of Phonetic Sciences* (pp. 2525 - 2528). Barcelona, Spain: ICPhS Organizing Committee.
- Gandour, J., Krishnan, A., & Bidelman, G.M. (2010). Neural substrates of lexical tone as revealed at different stages of cortical and subcortical processing. *Proceedings of the 7th International Conference on Cognitive Science* (pp. 32-33). Beijing, China: University of Science and Technology of China Press.

Abstracts

- Gandour, J. (1995). Tone and intonation in Thai after unilateral brain damage [abstract]. *Brain and Language*, 51, 191-193.
- Gandour, J., Wong, D., Van Lancker, D., & Hutchins, G. (1997). A PET investigation of speech prosody in tone languages [abstract]. *Brain and Language*, 60, 192-194.
- Vijayan, A., & Gandour, J. (1997). Production of linguistic prosody after unilateral brain damage [abstract]. *Brain and Language*, 60, 165-168.
- Wong, D., Gandour, J., Hsieh, L., & Hutchins, G. (1998). Pitch processing in a linguistic and nonlinguistic context: A crosslinguistic PET study [abstract]. *NeuroImage*, 7(4), S192.
- Hsieh, L., Gandour, J., Wong, D., & Hutchins, G. (2000). A PET study of the perception of Chinese tones [abstract]. *NeuroImage*, 11(5), S313.
- Gandour, J., Dziedzic, M., Wong, D., Lowe, M., Tong, Y., Hsieh, L., & Lurito, J. (2001). Differential neural circuitry underlies the perception of Chinese tone and intonation: an fMRI study [abstract]. *NeuroImage*, 13(6), S533.
- Baum, S., & Gandour, J. (2001). Production of double-stressed words by left- and right-hemisphere-damaged patients [abstract]. *Brain and Language*, 79, 83-86.
- Gandour, J., Xu, Y., Wong, D., Dziedzic, M., Lowe, M., Tong, Y., & Li, X. (2003). Is the left posterior prefrontal cortex specialized for overt segmentation or something else? [abstract]. Poster presented at the 9th International Conference on Functional Mapping of the Human Brain, New York, NY. Available on CD-ROM in *NeuroImage*, 19(2).
- Li, X., Gandour, J., Wong, D., Dziedzic, M., Lowe, & Bian, W. (2003). Fractionating mediational processes underlying speech segmentation [abstract]. Poster presented at the 9th International Conference on Functional Mapping of the Human Brain, New York, NY. Available on CD-ROM in *NeuroImage*, 19(2).
- Gandour, J., Tong, Y., Talavage, T., Wong, D., Dziedzic, M., Xu, Y., & Lowe, M. (2005). A crosslanguage fMRI study of sentence-level prosody in Mandarin [abstract]. *Brain and Language*, 95, 54-55.

- Gandour, J., Tong, Y., Talavage, T., Wong, D., Dziedzic, M., Xu, Y., Li, X., & Lowe, M. (2006). Neural substrates of L1 and L2 processing of sentence-level linguistic prosody [abstract]. *NeuroImage*, 31(Supplement 1), S134.
- Chandrasekaran, B., Gandour, J., & Krishnan, A. (2007). Neuroplasticity in the processing of pitch dimensions: A multidimensional scaling analysis of the mismatch negativity. *NeuroImage*, 36 (Supplement 1), S108.

Books

- Anthony, E. M., Gandour, J., & Warotamasikkhadit, U. (1968). *Foundations of Thai: Book II*. Pittsburgh, PA: Department of General Linguistics, University of Pittsburgh. (ERIC Document Reproduction Service No. ED 023 072)

Book Reviews

- Gandour, J. (1975). [Review of *Tai phonetics and phonology*]. *Pasaa* (Thailand), 5(2), 131-142.
- Gandour, J. (2002). [Review of *Interdisciplinary approaches to language processing*]. *Language*, 78(2), 359.

Computer Software

- Gandour, J., & Gandour, M. J. (1980). A computer program for scoring the Infant Temperament Questionnaire (revised). *Psychological Documents*, 10, 62. (Ms. No. 2073)
- Gandour, J., Gandour, M.J., & Wang, R. (1985). A computer program for scoring the Toddler Temperament Scale. *Psychological Documents*, 15, 5. (Ms. No. 2682)

Doctoral Dissertation

- Gandour, J. (1976). Aspects of Thai tone (Doctoral dissertation, University of California at Los Angeles). *Dissertation Abstracts International*, 37, 1516-A (University Microfilms No. 76-21, 348)

Other

- Gandour, J., & Warotamasikkhadit, U. (1967, March 15). American slang and idioms. *Progress* (Thailand), pp. 3-4, 64.
- Maddieson, I., & Gandour, J. (1974, November). *An annotated bibliography on tone*. (Working Papers in Phonetics, 28) University of California at Los Angeles, Phonetics Laboratory. (ERIC Document Reproduction Service No. ED 101 587)

EXTRAMURAL GRANTS

Research

- | | |
|---------|---|
| 1974 | NSF, Doctoral Dissertation Fellowship, \$550, UCLA |
| 1975 | Social Science Research Council Dissertation Fellowship, \$9,288, UCLA |
| 1979-81 | NSF, \$19,974, <i>Phonological and phonetic aspects of normal, aphasic and alaryngeal speech in tone languages</i> , PI, Purdue |
| 1979-82 | NIH, \$66,395, <i>Linguistic aspects of speech after laryngectomy</i> , Co-PI, Purdue |
| 1981-82 | NSF, \$8,315, <i>Tone perception in Far Eastern languages</i> , PI, Purdue |
| 1982-84 | NIH, \$29,515, <i>Aphasic dissolution in Thai</i> , PI, Purdue |
| 1982-85 | NIH, \$152,786, <i>Linguistic aspects of speech after laryngectomy</i> , Co-PI, Purdue |
| 1984 | NSF, \$16,024, <i>Multi-user equipment for phonetics research</i> , Senior Associate, Purdue |
| 1985-87 | NIH, \$66,924, <i>Linguistic aspects of speech after laryngectomy</i> , PI, Purdue |
| 1987-88 | NIH, \$24,838, <i>Linguistic tone in aphasia</i> , PI, Purdue |

- 1988-89 USIA (Fulbright Scholar Program), \$33,765, *Neurolinguistic investigation of speech prosody in Thai*, Senior Fulbright Research Scholar, Purdue
- 1988-91 NIH, \$124,938, *Prosodic aspects of speech after brain damage*, PI, Purdue
- 1990-92 NIH, Biomedical Research Support Grant, \$1,995, PI, Purdue
- 1991-95 NIH, \$307,988, *Prosodic aspects of speech after brain damage*, PI, Purdue
- 1996-97 Indiana University School of Medicine, Physiologic Imaging Research Center, \$6,281, *A positron emission tomography (PET) study of the neurological substrates of speech prosody*, PI, Purdue
- 1998-02 James S. McDonnell Foundation, \$162,292, *Crosslinguistic PET studies of speech prosody*, PI, Purdue
- 1999-00 Indiana University School of Medicine, Radiology Department, \$20,000, *A crosslinguistic fMRI investigation of the perception of vowel length*, PI, Purdue University
- 1999-00 Medical Research Council of Canada, \$7,500, *Speech processing subsequent to focal brain damage*, Co-Investigator, McGill
- 2000-05 NIH, \$1,193,341, *Functional neuroimaging studies of speech prosody*, PI, Purdue
- 2001-02 Indiana University School of Medicine, Radiology Department, \$740, *Crosslinguistic investigation of the perception of tone and vowel length in Thai: an fMRI study*, PI, Purdue
- 2008-10 NIH, \$870,415, *Crosslanguage studies of pitch representation in the human brainstem*, Co-I, Purdue
- 2008-10 Hong Kong Polytechnic University, \$40,000, *A new wearable vector-sensor-based hearing aid for Cantonese (tonal language) speakers*, Co-I; Drs. Wong and Lau, Co-PI

Travel

- 1985 American Council of Learned Societies Travel Grant, \$1,000, 18th International Conference on Sino-Tibetan Languages and Linguistics, Bangkok
- 2002 Hong Kong University, \$2,000, 1st International Symposium on Cognitive Neuroscience
- 2003 Kasetsart University, \$1,500, Seminar on Thai Neurophonetics, Bangkok
- 2003 Hong Kong University, \$2,000, 2nd International Symposium on Cognitive Neuroscience
- 2004 European Science Foundation, \$1,500, International Conference on Tone and Intonation, Santorini, Greece
- 2006 University of Konstanz, \$1,000, Tone Symposium, Germany
- 2009 Hong Kong University, \$3,500, Seminar on tonal processing in the brain
- 2010 State Key Laboratory of Brain and Cognitive Sciences, University of Hong Kong, \$2,500, Symposium on cognitive neuroscience of language conducted at the 7th International Conference on Cognitive Science, Beijing, China
- 2011 University of Western Sydney, Australia, \$3,000, International Conference on Psycholinguistic Representation of Tone, Chinese University of Hong Kong

Other

- 1968 National Defense Foreign Language Grant, Japanese Language Institute, University of Texas at Austin
- 1969 Fulbright-Hays Lectureship Grant, English Department, Niigata University, Japan
- 1973 Linguistic Society of America Fellowship, Summer Linguistic Institute, University of Michigan

INTRAMURAL GRANTS AND FELLOWSHIPS

Research

1993-94	SLA, Faculty Development Grant, \$745
1994-95	SLA, Faculty Development Grant, \$400
1995-97	PRF, Dissertation Research Grant (Aparna Vijayan), \$21,840
1997-98	SLA, Faculty Development Grant, \$625
1997-00	Showalter Trust, <i>The neurological substrates of speech prosody</i> , \$49,998
1998-00	PRF, Dissertation Research Grant (Li Hsieh), \$23,332
2000	SLA, Research Fellowship, Center for Social and Behavioral Sciences
2000-01	PRF, Special Initiative Research Grant (Yisheng Xu), \$12,635
2000-01	SLA, Faculty Development Grant, \$600
2004-05	PRF, Dissertation Research Grant (Yisheng Xu), \$19,305
2006	PRF, Dissertation Research Grant (Bharath Chandrasekaran), \$10,332
2006	SLA, Faculty Development Grant, \$600

Travel

1985	PRF International Travel Grant, \$476, 18th International Conference on Sino-Tibetan Languages and Linguistics, Bangkok, Thailand
1992	PRF International Travel Grant, \$1,290, 3rd International Symposium on Language and Linguistics: Pan-Asiatic Linguistics, Bangkok, Thailand
1994	PRF International Travel Grant, \$1,264, 4th Southeast Asian Linguistics Society Conference, Bangkok, Thailand
1996	PRF International Travel Grant, \$1,200, 4th International Symposium on Language and Linguistics: Pan-Asiatic Linguistics, Bangkok, Thailand
2001	PRF International Travel Grant, \$914, 7 th International Conference on Functional Mapping of the Human Brain, Brighton, UK
2006	PRF/CLA, \$1000/\$400, International Travel Grant, 12th Annual Meeting of the Organization of Human Brain Mapping, Florence, Italy

PRESENTATIONS (95)

- Gandour, J. (1974, May). The features of the larynx: n-ary or binary? Paper presented at the 4th annual California Linguistics Association conference, University of Southern California, Los Angeles.
- Maddieson, I., & Gandour, J. (1975, November). Vowel length before stops of contrasting series. Paper presented at 90th meeting of the Acoustical Society of America (ASA), San Francisco.
- Gandour, J. (1975, December). Counterfeit tones in the speech of Southern Thai bidialectals. Paper presented at Linguistic Society of America (LSA) annual meeting, San Francisco.
- Gandour, J., & Harshman, R. (1976, December). Crosslanguage study of tone perception. Paper presented at LSA annual meeting, Philadelphia.
- Gandour, J. (1977, March). Perceptual dimensions of tone: a crosslanguage study. Paper presented at the Mathematical Social Science Board conference on Linguistic Variation, University of Montreal.
- Gandour, J., & Harshman, R. (1977, June). Crosslanguage differences in tone perception. Paper presented at the 93rd meeting of the ASA, State College, PA.
- Gandour, J. (1979, December). Is language in the larynx? Paper presented at LSA annual meeting, Los Angeles.
- Fey, M., & Gandour, J. (1979, December). Problem-solving in phonology acquisition. Paper presented at LSA annual meeting, Los Angeles.

- Fey, M., & Gandour, J. (1982, May). Transitional phenomena in phonological acquisition. Paper presented at the annual convention of the Canadian Speech and Hearing Association, Vancouver, British Columbia.
- Gandour, J. (1982, July). Prosodic contrasts in alaryngeal speech. Paper presented at LSA summer meeting, College Park, MD.
- Carney, A., & Gandour, J. (1983, May). Tonal confusions in Thai listeners with sensorineural hearing loss. Paper presented at 105th meeting of the ASA, Cincinnati.
- Camarata, S., & Gandour, J. (1983, November). A suprasegmental solution to a segmental problem. Paper presented at American Speech and Hearing Association (ASHA) annual convention, Cincinnati.
- Gandour, J. (1983, December). Prosodic melodies on an electrolarynx. Paper presented at the 58th annual meeting of the LSA, Minneapolis.
- Camarata, S., & Gandour, J. (1984, November). Describing unusual phonological systems: theoretical and clinical implications. Paper presented at ASHA annual convention, San Francisco.
- Weinberg, B., & Gandour, J. (1984, November). Prosodic characteristics of speech produced with electronic artificial larynges. Paper presented at ASHA annual convention, San Francisco.
- Gandour, J. (1984, December). The acquisition of numeral classifiers in Thai. Paper presented at LSA annual meeting, Baltimore.
- Gandour, J. (1985, August). The acquisition and dissolution of numeral classifiers in Thai. Paper presented at the 18th International Conference on Sino-Tibetan Languages and Linguistics, Bangkok, Thailand.
- Weinberg, B., Gandour, J., Holasuit Petty, S., & Dardarananda, R. (1986, November). Vowel length in Thai alaryngeal speech. Paper presented at ASHA annual convention, Detroit.
- Gandour, J. (1990, October). Disruption of tone space in a Thai-speaking patient with subcortical aphasia. Paper presented at the Academy of Aphasia 28th annual meeting, Baltimore.
- Kim, S., Gandour, J., Marshall, R., & Neuburger, S. (1990, November). Conduction aphasia: A longitudinal case study. Paper presented at ASHA annual convention, Seattle.
- Gandour, J. (1991, January). Nature of spelling errors in conduction aphasia. Paper presented at LSA annual meeting, Chicago.
- Gandour, J. (1992, January). Neurolinguistic analysis of spelling errors in Thai. Paper presented at the 3rd International Symposium on Language and Linguistics: Pan-Asiatic Linguistics, Bangkok, Thailand.
- Gandour, J. (1993, October). Sequences of phonemic approximations in a tone language. Paper presented at the Academy of Aphasia 31st annual meeting, Tuscon.
- Dykstra, K., Gandour, J., & Stark, R. (1993, November). Selective disruption of prosody after right frontal lobe epilepsy. Paper presented at the ASHA annual convention, Anaheim.
- Larsen, J., & Gandour, J. (1993, November). Affective speech in Thai speakers with right hemisphere damage. Paper presented at ASHA annual convention, Anaheim.
- Bedore, L., Leonard, L., & Gandour, J. (1993, November). The substitution of a click for sibilants: A case study. Poster presented at ASHA annual convention, Anaheim.
- Gandour, J. (1994, May). Affective speech prosody in Thai patients with right hemisphere lesions. Paper presented at the 4th annual meeting of the Southeast Asian Linguistics Society, Bangkok, Thailand.
- Potisuk, S., Gandour, J., & Harper, M. (1994, May). F₀ correlates of stress in Thai. Paper presented at the 4th annual meeting of the Southeast Asian Linguistics Society, Bangkok.
- Perkins, J., Baran, J., & Gandour, J. (1994, October). Hemispheric specialization in processing intonation contours. Poster presented at the Academy of Aphasia 32nd annual meeting, Boston.
- Perkins, J., Baran, J., & Gandour, J. (1994, November). Hemispheric specialization in processing intonation contours. Paper presented at ASHA annual convention, New Orleans.

- Potisuk, S., Harper, M., & Gandour, J. (1995, May). Speaker-independent automatic classification of Thai tones in connected speech by analysis-synthesis method. Poster presented at the IEEE International Conference on Acoustics, Speech, and Signal Processing, Detroit.
- Gandour, J. (1995, November). Tone and intonation in Thai after unilateral brain damage. Poster presented at the Academy of Aphasia 33rd annual meeting, San Diego.
- Gandour, J., Potisuk, S., & Harper, M. (1996, January). Effects of stress on vowel length in Thai. Paper presented at the 4th International Symposium on Language and Linguistics: Pan-Asiatic Linguistics, Bangkok, Thailand.
- Potisuk, S., Harper, M., & Gandour, J. (1996, October). Using stress to disambiguate spoken Thai sentences containing syntactic ambiguity. Paper presented at 4th International Conference on Spoken Language Processing, Philadelphia.
- Vijayan, A., & Gandour, J. (1996, November). Effects of brain damage on the production of phonemic stress. Poster presented at ASHA annual convention, Seattle.
- Vijayan, A., & Gandour, J. (1997, October). Production of phonemic stress after unilateral brain damage. Poster presented at the Academy of Aphasia 35th annual meeting, Philadelphia.
- Gandour, J., Wong, D., Van Lancker, D., & Hutchins, G. (1997, October). A PET investigation of speech prosody in tone languages. Paper presented at the Academy of Aphasia 35th annual meeting, Philadelphia.
- Wong, D., Gandour, J., Van Lancker, D., & Hutchins, G. (1997, October). A PET study of speech prosody in tone languages. Poster presented at Society for Neuroscience annual meeting, New Orleans.
- Grela, B., & Gandour, J. (1997, November). Stress clash phenomena in aphasia. Poster presented at the ASHA annual convention, Boston.
- Gandour, J., Wong, D., Hsieh, L., Weinzapfel, B., & Hutchins, G. (1998, April). A crosslinguistic PET study of tone perception. Poster presented at Cognitive Neuroscience Society (CNS) annual meeting, San Francisco.
- Wong, D., Gandour, J., Hsieh, L., & Hutchins, G. (1998, June). Pitch processing in a linguistic and nonlinguistic context. Poster presented at the Organization for Human Brain Mapping (OHBM) annual meeting, Montreal.
- Hsieh, L., Gandour, J., Wong, D., & Hutchins, G. (2000, April). Functional heterogeneity of inferior frontal gyrus is shaped by linguistic experience. Poster presented at CNS annual meeting, San Francisco.
- Gandour, J. (2000, May). Neurophonetics of Thai tones. Invited keynote speaker at 10th Annual Southeast Asian Linguistics Conference, Madison, WI.
- Gandour, J. (2000, May). Functional heterogeneity of inferior frontal gyrus is shaped by linguistic experience. Invited lecture presented at the Department of Communicative Disorders, University of Wisconsin, Madison.
- Hsieh, L., Gandour, J., Wong, D., & Hutchins, G. (2000, June). A PET study of the perception of Chinese tones. Poster presented at OHBM annual meeting, San Antonio.
- Gandour, J. (2001, March). Neural circuitry underlying the perception of Chinese tones: A positron emission tomography study. Invited lecture presented at the Center for Social and Behavioral Sciences, School of Liberal Arts, Purdue University.
- Gandour, J., Wong, D., Dziedzic, M., Lowe, M., Sathamnuwong, N., Tong, Y., & Lurito, J. (2001, March). Functional specialization for phonological processing in the left inferior prefrontal cortex. Poster presented at CNS annual meeting, New York City.
- Gandour, J., Dziedzic, M., Wong, D., Lowe, M., Tong, Y., Hsieh, L., & Lurito, J. (2001, June). Differential neural circuitry underlies the perception of Chinese tone and intonation: an fMRI study. Poster presented at OHBM annual meeting, Brighton, England.

- Baum, S., & Gandour, J. (2001, October). Production of double-stressed words by left- and right-hemisphere-damaged patients. Poster presented at the Academy of Aphasia 39th annual meeting, Boulder.
- Gandour, J., Wong, D., Dziedzic, M., Lowe, M., Tong, Y., Li, X., & Xu, Y. (2002, April). A crosslinguistic fMRI study of spectral and temporal cues underlying phonological processing. Poster presented at CNS annual meeting, San Francisco.
- Gandour, J. (2002, April). Functional neuroimaging of perception of speech prosody in tone languages. Invited keynote speaker at International Symposium on Cognitive Neuroscience, Hong Kong, China.
- Wong, D., Gandour, J., Dziedzic, M., Lowe, M., Tong, Y., Li, X., & Xu, Y. (2002, November). Cortical processing of linguistically-relevant spectral and temporal cues: A crosslinguistic fMRI study. Poster presented at Society for Neuroscience annual meeting, Orlando.
- Gandour, J. (2003, January). Thai neurophonetics. Invited lectures presented at Kasetsart University, Bangkok, Thailand.
- Gandour, J., Xu, Y., Wong, D., Dziedzic, M., Lowe, M., Tong, Y., & Li, X. (2003, June). Is the left posterior prefrontal cortex specialized for overt segmentation or something else? Poster presented at OHBM annual meeting, New York.
- Li, X., Gandour, J., Wong, D., Dziedzic, M., Lowe, M., & Bian, W. (2003, June). Fractionating mediational processes underlying speech segmentation. Poster presented at the OHBM annual meeting, New York.
- Wong, D., Gandour, J., Dziedzic, M., Lowe, M., Tong, Y., Li, X., & Xu, Y. (2003, November). Linguistic vs. temporal processing in hemispheric lateralization of speech prosody. Poster presented at Society for Neuroscience annual meeting, New Orleans.
- Gandour, J. (2003, December). Hemispheric asymmetry of Chinese tone and intonation: Is it language, speech, or something else? Keynote address presented at the 2nd International Symposium on Cognitive Neuroscience, Hong Kong, China.
- Krishnan, A., Gandour, J., & Xu, Y. (2004, February). Human frequency following responses: Representation of pitch contours of Chinese tones. Poster presented at Association for Research in Otolaryngology (ARO) annual meeting, Daytona Beach, FL.
- Xu, Y., Gandour, J., Talavage, T., Wong, D., Dziedzic, M., Tong, Y., & Lowe, M. (2004, April). Using *chimeric* speech stimuli to isolate prelexical processing of lexical tones. Poster presented at CNS annual meeting, San Francisco.
- Tong, Y., Gandour, J., Wong, D., Talavage, T., Dziedzic, M., Xu, Y., & Lowe, M. (2004, April). Identifying the neural substrates underlying the perception of Chinese intonation and tone. Poster presented at CNS annual meeting, San Francisco.
- Wong, D., Li, X., Gandour, J., Dziedzic, M., Tong, Y., Talavage, T., & Lowe, M. (2004, June). Immediate memory underlying lexical tone processing. Poster presented at OHBM annual meeting, Budapest.
- Li, X., Gandour, J., Wong, D., Dziedzic, M., Tong, Y., Talavage, T., & Lowe, M. (2004, August). An fMRI investigation of immediate memory and selective attention underlying Chinese tone processing. Paper presented at the International Congress of Psychology, Beijing.
- Gandour, J. (2004, September). Hemispheric roles in the perception of tone and intonation. Invited keynote speaker at International Conference on Tone and Intonation, Santorini, Greece.
- Xu, Y., Wong, D., Gandour, J., Talavage, T., Dziedzic, M., Tong, Y., & Lowe, M. (2004, October). Experience-dependent activation of left planum temporale in lexical tone processing. Poster presented at Society for Neuroscience annual meeting, San Diego.
- Krishnan, A., Gandour, J., & Xu, Y. (2005, February). Representation of pitch in the human brainstem may be influenced by language experience. Poster presented at ARO annual meeting, New

Orleans.

- Tong, Y., Gandour, J., Talavage, T., Wong, D., Dziedzic, M., Xu, Y., & Lowe, M. (2005, April). A crosslinguistic fMRI study of the perception of sentence focus and intonation. Poster presented at CNS annual meeting, New York City.
- Gandour, J. (2005, April). On the road to the final contour: Hemispheric roles in the perception of speech prosody. Invited lecture presented in the Department of Linguistics and Germanic, Slavic, Asian, and African Languages, Michigan State University, East Lansing.
- Wong, D., Gandour, J., Xu, Y., Dziedzic, M., Talavage, T., Tong, Y., & Lowe, M. (2005, June). Lexical tone processing in the left planum temporale is experience-dependent: An fMRI study using crosslanguage comparisons. Poster presented at OHBM annual meeting, Toronto.
- Chandrasekaran, B., Krishnan, A., Swaminathan, J., & Gandour, J. (2006, February). Language-dependent preattentive pitch processing in young adults. Podium talk presented at ARO annual meeting, Baltimore.
- Krishnan, A., Swaminathan, J., & Gandour, J. (2006, February). Pitch encoding of dynamic iterated ripple noise in the human brainstem is sensitive to language experience. Poster presented at ARO annual meeting, Baltimore.
- Tong, Y., Gandour, J., Talavage, T., Wong, D., Dziedzic, M., & Lowe, M. (2006, April). Poster presented at CNS annual meeting, San Francisco.
- Chandrasekaran, B., Krishnan, A., & Gandour, J. (2006, April). Language experience modulates preattentive pitch processing: A crosslanguage study. Poster presented at the 4th Conference on Mismatch Negativity and its Clinical and Scientific Applications, Cambridge, England.
- Gandour, J. (2006, June). Interaction between pitch processing and higher-order linguistic categories: Evidence from tone languages. Lecture presented at Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- Gandour, J., Tong, Y., Talavage, T., Wong, D., Dziedzic, M., Xu, Y., Li, X., & Lowe, M. (2006, June). Neural substrates of L1 and L2 processing of sentence-level linguistic prosody. Poster presented at OHBM annual meeting, Florence, Italy.
- Gandour, J. (2006, October). Neurophonetics of tone and intonation. Invited talk presented at the conference on Tone: Mind, Brain, Evolution, University of Konstanz, Germany.
- Chandrasekaran, B., Gandour, J., & Krishnan, A. (2007, April). Crosslanguage differences in preattentive processing of pitch dimensions as revealed by multidimensional scaling analysis of the mismatch negativity. Poster presented at CNS annual meeting, San Francisco.
- Chandrasekaran, B., Gandour, J., & Krishnan, A. (2007, June). Neuroplasticity in the processing of pitch dimensions: A multidimensional scaling analysis of the mismatch negativity. Poster presented at OHBM annual meeting, Chicago.
- Chandrasekaran, B., Krishnan, A., & Gandour, J. (2008, February). Influence of musical and linguistic experience on early cortical processing of pitch contours. Poster presented at ARO annual meeting, Phoenix.
- Swaminathan, J., Krishnan, A., & Gandour, J. (2008, February). Experience-dependent enhancement of pitch representation in the brainstem is not speech specific. Poster presented at ARO annual meeting, Phoenix.
- Gandour, J. (2008, February). Tone languages: Neural basis of pitch processing from a tone-language perspective. Invited talk presented at symposium on brain basis of speech. American Association for the Advancement of Science annual meeting, Boston.
- Chandrasekaran, B., Krishnan, A., & Gandour, J.T. (2008, June). Tuning into tone: Experience-dependent plasticity in the cortical processing of linguistic pitch contours. Poster presented at the International Conference on Neurosciences and Music III, Montreal.
- Krishnan, A., Gandour, J.T., & Swaminathan, J. (2008, September). Influence of language experience on

- pitch representation in the human brainstem. Invited talk presented at Interspeech 2008, Brisbane, Australia.
- Krishnan, A., Gandour, J.T., Bidelman, G., & Swaminathan, J. (March, 2009). Experience-dependent neural representation of dynamic pitch in the brainstem. Poster presented at American Auditory Society annual meeting, Scottsdale, AZ.
- Bidelman, G., Gandour, J.T., & Krishnan, A. (March, 2009). Cross-domain effects of language and music experience on the representation of pitch in the human auditory brainstem. Poster presented at CNS annual meeting, San Francisco.
- Gandour, J.T. (May, 2009). Tones and tunes: a linguist's journey through the brain. Invited talk presented in the Frances Ingemann lecture series, Department of Linguistics, University of Kansas, Lawrence.
- Gandour, J.T. (May, 2009). Invited keynote speaker at International Symposium for Integrative Neuroscience. State Key Laboratory of Brain and Cognitive Sciences, University of Hong Kong; Digital Signal Processing & Speech Technology Laboratory, Department of Electronic Engineering, Chinese University of Hong Kong; Department of Psychology, South China Normal University, Guangzhou.
- Bidelman, G., Gandour, J.T., & Krishnan, A. (August, 2009). Relative influence of musical and linguistic experience on the subcortical encoding of pitch. Poster presented at Society of Music Perception and Cognition conference, Indianapolis.
- Bidelman, G., Krishnan, A., & Gandour, J.T. (October, 2009). The effects of tone language experience on pitch processing in the brainstem. Poster presented at Neurobiology of Language Conference, Chicago.
- Bidelman, G.M., Krishnan, A., & Gandour, J.T. (February, 2010). Brainstem pitch representation in native speakers of Mandarin is less susceptible to degradation of stimulus temporal regularity. Poster presented at ARO annual meeting, Anaheim.
- Bidelman, G.M., Krishnan, A., & Gandour, J.T. (February, 2010). Neural representation of pitch salience in the human brainstem revealed by psychophysical and electrophysiological indices. Poster presented at ARO annual meeting, Anaheim.
- Krishnan, A., Smalt, C., & Gandour, J.T. (February, 2010). Language-dependent enhancement of pitch encoding in the brainstem transfers to stimuli beyond the natural voice pitch range. Poster presented at ARO annual meeting, Anaheim.
- Gandour, J.T., Krishnan, A., & Bidelman, G.M. (August, 2010). Neural substrates of lexical tone as revealed at different stages of cortical and subcortical processing. Invited keynote speaker at symposium on cognitive neuroscience of language, 7th International Conference on Cognitive Science, Beijing, China.
- Ananthakrishnan, S., Krishnan, A., Gandour, J.T., Bidelman, G.M., & Smalt, C.J. (February, 2011). Brainstem origins of the differential hemispheric laterality for linguistic and nonlinguistic pitch. Poster presented at ARO annual meeting, Baltimore.
- Bidelman, G.M., Krishnan, A., & Gandour, J.T. (February, 2011). Enhanced brainstem pitch encoding in tone language speakers does not translate to perceptual benefits for music. Poster presented at ARO annual meeting, Baltimore.
- Gandour, J.T. (August, 2011). Neural bases of tonal processing. Invited keynote speaker at conference on Psycholinguistic Representation of Tone, Chinese University of Hong Kong.