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### **Education and Experience**

2005- present	Professor, Department of Linguistics, UC Berkeley
2002- 2004	Professor, Department of Linguistics, Ohio State University (OSU)
2001 (spring)	Acting Chair, Department of Linguistics, OSU
2000 (spring)	Acting Chair, Department of Linguistics, OSU
1998 (autumn)	Acting Associate Director, Center for Cognitive Science, OSU
1997 - 2002.	Associate Professor, Department of Linguistics, OSU
1993 - 1997.	Assistant Professor, Department of Linguistics, OSU
1992 - 1993.	Assistant Professor, Department of Biocommunication, University of Alabama at Birmingham.
1991 - 1992.	Visiting Assistant Professor, Department of Linguistics, UCLA
1990 - 1991.	Post-doctoral Trainee, Department of Linguistics, UCLA, Patricia Keating & Peter Ladefoged.
1988 - 1990.	Post-doctoral Trainee, Psychology Department, Indiana University, David Pisoni.
1988	Ph.D., Linguistics, Ohio State University.
1985	M.A., Linguistics, Ohio State University.

### **Books**

Johnson, K. (under review) *Quantitative Methods in Linguistics*. Oxford: Blackwell.

Johnson, K. (2002) *Acoustic and Auditory Phonetics*. 2nd Edition (1st edition, 1997). Oxford: Blackwell.

Hume, E. & Johnson, K. eds. (2001) *The Role of Speech Perception in Phonology*. New York: Academic Press.

Johnson, K. & Mullenix, J.W. eds. (1997) *Talker Variability in Speech Processing*. San Diego: Academic Press.

Bissantz, A & Johnson, K., eds. (1985) *Language Files: Materials for an Introduction to Language*. (3rd Edition). Reynoldsburg, OH: Advocate Publishing Group. Relatively minor revisions of the popular book of course materials.

### **Articles**

Johnson, K. (in press) Resonance in an Exemplar-based Lexicon: The Emergence of Social Identity and Phonology. *Journal of Phonetics*, **xx**, xxx-xxx.

- Fon, J. and Johnson, K. (2004) Syllable onset intervals as an indicator of discourse and syntactic boundaries in Taiwan Mandarin. *Language and Speech* 47 (1), 57-82.
- Johnson, K. (2004) Aligning phonetic transcriptions with their citation forms. *Acoustics Research Letters On-line*. 5, 19-24.
- Martin, J. & Johnson, K. (2002) An acoustic study of "tonal accent" in Creek. *International Journal of American Linguistics* 68, 28-50.
- Johnson, K. & Martin, J. (2001) Acoustic vowel reduction in Creek: Effects of distinctive length and position in the word. *Phonetica*. 58, 81-102.
- Johnson, K. (2000) Adaptive dispersion in vowel perception. *Phonetica*. 57, 181-188.
- Johnson, K., Strand, E.A. & D'Imperio, M. (1999) Auditory-visual integration of talker gender in vowel perception. *Journal of Phonetics*. 27, 359-384.
- McDonough, J. & Johnson, K. (1998) Tamil liquids. *Journal of the International Phonetic Association*. 27, 1-26.
- Oh, M. & Johnson, K. (1997) A phonetic study of Korean intervocalic laryngeal consonants. *Journal of Speech Sciences (Korean Association of Speech Sciences)*, 1, 83-101.
- Mullennix, J.W., Johnson, K., Topcu-Durgun, M. & Farnsworth, L.M. (1995) The perceptual representation of voice gender. *Journal of the Acoustical Society of America*. 98: 3080-3095.
- Johnson, K. & Ralston, J.V. (1994) Automaticity in speech perception: Some speech / nonspeech comparisons. *Phonetica* 51: 195-209.
- Johnson, K., Flemming, E. & Wright, R. (1993) The hyperspace effect: Phonetic targets are hyperarticulated. *Language*. 69:505-528.
- Johnson, K., Ladefoged, P. & Lindau, M. (1993) Individual differences in vowel production. *Journal of the Acoustical Society of America*. 94: 701-714.
- Johnson, K. (1991) Differential effects of speaker and vowel variability on fricative perception. *Language and Speech*. 34: 265-279.
- Johnson, K., Pisoni, D. & Bernacki, R. (1990) Do voice recordings reveal whether a person is intoxicated?: A case study. *Phonetica*. 47: 215-237.
- Johnson, K. (1990) The role of perceived speaker identity in F0 normalization of vowels. *Journal of the Acoustical Society of America*. 88: 642-654.
- Johnson, K. (1990) Contrast and normalization in vowel perception. *Journal of Phonetics*. 18: 229-254.
- Summers, V. Johnson, K., Pisoni, D. and Bernacki, R. (1989) Addendum to 'Effects of noise on speech production: Acoustic and perceptual analyses' JASA 84:917-928. *Journal of the Acoustical Society of America*. 86: 1717-1721.
- Johnson, K. (1989) Higher formant normalization results from auditory integration of F2 and F3. *Perception and Psychophysics*. 46, 174-180.

## Reviews

- Johnson, K. (2002) Review of Vowels and Consonants by Peter Ladefoged. *Phonology*, 19, 1-5.
- Johnson, K. (1993) Review of *Auditory Scene Analysis* by Albert Bregman. *Journal of Phonetics*. 21, 491-496

Johnson, K. (1992) Review of *Speech Physiology, Speech Perception, and Acoustic Phonetics* by P. Lieberman and S.E. Blumstein. *Journal of Phonetics*. **20**, 172-174.

### **Chapters in Edited Books**

Johnson, K. (2005) Speaker normalization in speech perception. In Pisoni, D.B. & Remez, R. (eds) *The Handbook of Speech Perception*. Oxford: Blackwell Publishers. pp. 363-389.

Hume, E. & Johnson, K. (2001) A model for the interplay of speech perception and phonology. In Hume & Johnson (eds) *The Role of Speech Perception in Phonology*. New York: Academic Press. pp. 3-26.

Johnson, K. (1997) Speech perception without speaker normalization: An exemplar model. In Johnson & Mullennix (eds) *Talker Variability in Speech Processing*. San Diego: Academic Press. pp. 145-165.

Johnson, K. & Mullennix, J.W. (1997) Complex representations used in speech processing: Overview of the book. In Johnson & Mullennix (eds) *Talker Variability in Speech Processing*. San Diego: Academic Press. pp. 1-8.

Johnson, K. (1994) Phonetic arbitrariness and the input problem. In P. Keating (ed.) *Phonological structure and phonetic form: Papers in Laboratory Phonology III*. Cambridge: Cambridge University Press. pp. 325-330.

### **Papers in Proceedings**

Johnson, K. (2004) Cross-linguistic perceptual differences emerge from the lexicon. In Augustine Agwuele, Willis Warren, and Sang-Hoon Park (eds.) *Proceedings of the 2003 Texas Linguistics Society Conference: Coarticulation in Speech Production and Perception*. Sommerville, MA: Cascadilla Press. pp. 26-41.

Johnson, K. (2004) Massive reduction in conversational American English. In K. Yoneyama & K. Maekawa (ed.) *Spontaneous Speech: Data and Analysis*. Tokyo: The National Institute for Japanese Language. pp. 29-54.

Pitt, M. and Johnson, K. (2003) Using pronunciation data as a starting point in modeling word recognition. OSU MS. Presented at *15th International Congress of Phonetic Sciences*.

Hume, E. and Johnson, K. (2003) The Impact of Partial Phonological Contrast on Speech Perception, *15th International Congress of Phonetic Sciences*, pp. 2385-2388.

Johnson, K. (2001) Spoken language variability: Implications for modeling speech perception. In Smits, R., Kingston, J., Nearey, T.M., Zondervan, R. (eds.) *Proceedings of the Workshop on Speech Recognition as Pattern Classification (SPRAAC)*. Nijmegen: Max Planck Institute for Psycholinguistics.

Hume, E., Johnson, K., Seo, M. & Tserdanelis, G. (1999) A cross-linguistic study of stop place perception. *Proceedings of the International Congress of Phonetic Sciences*. pp. 2069-72.

Winters, S. & Johnson, K. (1998) An exemplar-based model of silent-center syllable perception. *The Sound of the Future: A Global View of Acoustics in the 21st Century, Proceedings 16th International Congress on Acoustics and 135th Meeting Acoustical Society of America*. pp. 2021-2.

- Makashay, M.J. & Johnson, K. (1998) Surveying auditory space using vowel formant data. *The Sound of the Future: A Global View of Acoustics in the 21st Century, Proceedings 16th International Congress on Acoustics and 135th Meeting Acoustical Society of Americapp.* 2037-8.
- Yoneyama, K. & Johnson, K. (1998) An instance-based model of Japanese speech recognition by native and nonnative listeners. *The Sound of the Future: A Global View of Acoustics in the 21st Century, Proceedings 16th International Congress on Acoustics and 135th Meeting Acoustical Society of America* pp. 2977-8.
- Strand, E.A. & Johnson, K. (1996) Gradient and visual speaker normalization in the perception of fricatives. In Gibbon, Dafydd (ed.) *Natural Language Processing and Speech Technology. Results of the 3rd KOVENS Conference, Bielefeld, October, 1996.* Berlin: Mouton de Gruyter, pp 14-26.
- Johnson, K. & Sinsabaugh, B. (1985) The simplification of the Greek vowel system. *Chicago Linguistic Society.* **21**: 189-198.
- Johnson, K. (1984) Prosody and ambiguous gerund phrases. *Eastern States Conference on Linguistics.* **1**: 238-249.

### **Technical Reports**

- Johnson, K. (2005) Tone and Pitch Accent in Cherokee Nouns. *UC Berkeley Phonology Lab Annual Report, 2005*, 1-48.
- Johnson, K. (2005) Resonance in an Exemplar-based Lexicon: The Emergence of Social Identity and Phonology. *UC Berkeley Phonology Lab Annual Report, 2005*, 95-128.
- Johnson, K. (2005) Decisions and Mechanisms in Exemplar-based Phonology. *UC Berkeley Phonology Lab Annual Report, 2005*, 289-311.
- Heeringa, W., Johnson, K. & Gooskens, C. (2005) Measuring Norwegian Dialect Distances using Acoustic Features. *UC Berkeley Phonology Lab Annual Report, 2005*, 312-336.
- Hume, E. & Johnson, K. (2001) A model for the interplay of speech perception and phonology. In Hume & Johnson (eds) *Studies on the Role of Speech Perception in Phonology: Ohio State University Working Papers in Linguistics.* **55**, 1-22.
- Johnson, K. (1997) The auditory/perceptual basis for speech segmentation. *Ohio State University Working Papers in Linguistics.* **50**, 101-113.
- Johnson, K. & Beckman, M. (1997) Production and perception of individual speaking styles. *Ohio State University Working Papers in Linguistics.* **50**, 115-125.
- Diehm, E. & Johnson, K. (1997) Near merger in the acquisition of Russian as a second language. *Ohio State University Working Papers in Linguistics.* **50**, 11-18.
- Johnson, K. and Oh, M. (1995) Intervocalic consonant sequences in Korean. *Ohio State University Working Papers in Linguistics.* **45**: 85-97.
- Johnson, K. & Ladefoged, P. (1994) A preliminary perceptual study of the vowels of Montana Salish: The method of adjustment as a fieldwork technique. *UCLA Working Papers in Phonetics.* **87**: 105-111.
- Johnson, K. (1993) Acoustic and auditory analyses of Xhosa clicks and pulmonics. *UCLA*

- Working Papers in Phonetics*. **83**: 33-45.
- Johnson, K., Fernandez, M., Henninger, M. & Sandstrum, J. (1993) Spectral integration in vowel perception: Matching and discrimination studies. *UCLA Working Papers in Phonetics*. **83**: 47-54.
- Johnson, K., Flemming, E. and Wright, R. (1993) The hyperspace effect: Phonetic targets are hyperarticulated. *UCLA Working Papers in Phonetics*. **83**: 55-73.
- Johnson, K. & Teheranizadeh, H. (1992) Facilities for speech perception research at the UCLA phonetics lab. *UCLA Working Papers in Phonetics*. **81**: 123-137.
- Johnson, K. (1991) Dynamic aspects of English vowels in /bVb/ sequences. *UCLA Working Papers in Phonetics*. **80**: 99-120.
- Johnson, K. (1990) Compensation for talker variability and vowel variability in the perception of fricatives. *Research on Speech Perception Progress Report No. 16*. Speech Research Laboratory, Psychology Department, Indiana University, Bloomington, IN. pp. 293-312.
- Johnson, K. & Ralston, J.V. (1990) Automaticity in speech perception: Some speech/nonspeech comparisons. *Research on Speech Perception Progress Report No. 16*. Speech Research Laboratory, Psychology Department, Indiana University, Bloomington, IN. pp. 65-98.
- Tanford, J.A., Pisoni, D.B. & Johnson, K. (1990) Novel scientific evidence of intoxication: Acoustic analysis of voice recordings from the Exxon Valdez. *Research on Speech Perception Progress Report No. 16*. Speech Research Laboratory, Psychology Department, Indiana University, Bloomington, IN. pp. 233-260.
- Johnson, K. (1989) Contrast and normalization in vowel perception. *Research on Speech Perception*. Progress Report No. 15. Department of Psychology, Indiana University, Bloomington, IN. pp. 187-225.
- Johnson, K. (1989) On the perceptual representation of vowel categories. *Research on Speech Perception*. Progress Report No. 15. Department of Psychology, Indiana University, Bloomington, IN. pp. 343-358.
- Johnson, K. (1989) Glottal effects on LPC estimation of F1. *Research on Speech Perception*. Progress Report No. 15. Department of Psychology, Indiana University, Bloomington, IN. pp. 359-372.
- \_\_\_\_\_ and M.S. Cluff. (1989) Stress-clash in isolated phrases and sentence contexts. *Research on Speech Perception*. Progress Report No. 15. Department of Psychology, Indiana University, Bloomington, IN. pp. 373-387.
- Johnson, K., D.B. Pisoni, and R.H. Bernacki. (1989) Final report to the NTSB on the speech produced by the Captain of the Exxon Valdez. *Research on Speech Perception*. Progress Report No. 15. Department of Psychology, Indiana University, Bloomington, IN. pp. 389-417.
- Johnson, K. (1988) Intonational context and F0 normalization. *Research on Speech Perception*. Progress Report No. 14. Department of Psychology, Indiana University, Bloomington, IN. pp. 81-108.
- Johnson, K. (1988) F0 normalization and adjusting to talker. *Research on Speech Perception*.

- Progress Report No. 14. Department of Psychology, Indiana University, Bloomington, IN. pp. 237-258.
- Johnson, K. (1988) Manner of articulation and feature geometry: A phonetic perspective. *Research on Speech Perception*. Progress Report No. 14. Department of Psychology, Indiana University, Bloomington, IN. pp. 307-321.
- Johnson, K. (1988) Tone and intonation in Cantonese. *Ohio State University Working Papers in Linguistics*. **36**: 1-15.
- Johnson, K. (1986) Fragmentation of Strong Verb Ablaut in Old English. *Ohio State University Working Papers in Linguistics*. **34**: 108-122.

### **Doctoral Supervision**

- Tsan Huang, 2004. *Language-Specificity in Auditory Perception of Chinese Tones*. Now at SUNY Buffalo.
- Stephen Winters, 2003, *Empirical investigations into the perceptual and articulatory origins of cross-linguistic asymmetries in place assimilation*. Now at: Indiana University
- Matthew Makashay, 2003, *Individual differences in speech and non-speech perception of fricatives and duration*. Now at: Walter Reed Army Medical Center, Army Audiology & Speech Center
- Kiyoko Yoneyama, 2002, *Phonological neighborhoods and phonetic similarity in Japanese word recognition*. Now at: National Institute for Japanese Language and Daito Bunka University
- Janice Fon, 2002, *A Cross-Linguistic Study on Syntactic and Discourse Boundary Cues in Spontaneous Speech*. Now at: National Taiwan Normal University
- Jennifer Vannest, 2001, *Morphological Effects in Visual Word Processing: Their Timecourse and Consequences for Lexical Architecture*. Now at: University of Rochester.
- Elizabeth Strand, 2000, *Gender Stereotype Effects in Speech Processing*. Now at: Nuance Communications.
- Mariapaola D'Imperio, 2000, *On Defining Tonal Targets from a Perception Perspective*. (co-advised with Mary Beckman). Now at: Université de Provence, France
- Rebecca Herman, 1998, *Intonation and Discourse Structure in English: Phonological and Phonetic Markers of Local and Global Discourse Structure*. (co-advised with Mary Beckman) Now at: DePaul University and Nuance Communications.
- Erin Diehm, 1998, *Gestures and Linguistic Function in Learning Russian: Production and Perception Studies of Russian Palatalized Consonants*. (co-advised with Anelya Rugalova) Now at: BBN.
- Shu Hui Peng, 1996, *Phonetic Implementation and Perception of Place Coarticulation and Tone Sandhi*. (co-advised with Mary Beckman) Now at National University of Kaohsiung, Taiwan

## **Grants**

- 2005-present. (with John Ohala) *The inner structure of distinctive features*, NSF. \$69,000
- 2000-present. *Cross-linguistic studies on spoken language processing*. NIH, \$175,000
- 2000-present. (with Mark Pitt and Beth Hume) *Recognizing phonological variants of spoken words*. NIH, \$333,151
- 2000-2002. (with Marcia Haag [University of Oklahoma] & Durbin Feeling [Northeast Oklahoma State] *Cherokee language sound description and analysis*. NSF \$36,985
1999. (with E. Hume) *The role of speech perception phenomena in phonology*. NSF, \$19,942
- 1998-2000. *Spoken Language Understanding and Generation*. OSU Office of Research, Interdisciplinary Seed Grant Program. \$292,812
- 1992 - 1997. *Processes of speaker normalization in speech perception*, National Institute on Deafness and Other Communication Disorders Grant No. R29 DC01645, \$475,396

## **Professional Activities**

- NIH Study Section - LCOM. 2003-present.
- Editorial board *Language*. 2001-2004.
- Consulting editor, *Journal of Experimental Psychology: Human Perception and Performance*. 2000-2001.
- Chair, Organizing committee. Technology across the Humanities curriculum, regional conference, Ohio State University, Oct. 1999.
- Organizing committee. Acoustical Society of America, Columbus meeting, Nov. 1999.
- Linguistic Society of America, instructor at LSA Summer Institute, 1993.