

Mary E. Beckman

Linguistics, Ohio State University, Columbus, OH, 43210 USA – beckman.2@osu.edu

Curriculum Vitae

Education and employment:

Professor Emerita, Linguistics, Ohio State University, Columbus, OH (hired Sept., 1985, as Instructor; promoted to Associate Professor in 1989, to Professor in 1993; awarded the Humanities Distinguished Professorship in September 2003; current title as of September 2016); courtesy appointment in the Department of Speech & Hearing Science (1999-2016); faculty for the Interdisciplinary Master of Arts, East Asian Studies Center (2005-2016). Postdoctoral Member Technical Staff, Dept. Linguistics & Artificial Intelligence Research, AT&T Bell Laboratories, Murray Hill, NJ (February 1984-September 1985). Ph.D., Linguistics, Cornell University, Ithaca, NY (January, 1984). Dissertation: *Toward phonetic criteria for a typology of lexical accent*. (M.A., Linguistics, January, 1982). M.A., Oriental Languages, University of California, Berkeley, CA (June, 1979). Thesis: *Kungana evidence for the number of phonemically distinct syllables in Old Japanese*. A.B., Oriental Languages & Comparative Literature, UC Berkeley (June 1976).

Dissertations and other theses advised, Ohio State University:

Keith Johnson (Ph.D., 1988). *Processes of speaker normalization in vowel perception*.
Maria G. Swora (B.A., 1990). *The intonation of “Okay” as a discourse marker*.
Kenneth de Jong (Ph.D., 1991). *The oral articulation of English stress accent*.
Sun-Ah Jun (Ph.D., 1993). *The phonetics and phonology of Korean prosody*.
Sook-hyang Lee (Ph.D., 1994). *The role of the jaw in consonant articulation*.
Shu-hui Peng (Ph.D., 1996). *Phonetic implementation and perception of segmental coarticulation and tone sandhi*.
Gayle Ayers Elam (Ph.D., 1996). *Nuclear accent types and prominence: Some psycholinguistic experiments*.
Kevin Bretonel Cohen (M.A., 1996). *Vowel production and vocal tract evolution*.
Rebecca Herman (Ph.D., 1998). *Intonation and discourse structure in English: Phonological and phonetic markers of local and global discourse structure*.
Jennifer Venditti (Ph.D., 2000). *Discourse structure and attentional salience effects in Japanese intonation*.
Mariapaola D’Imperio (Ph.D., 2000, co-advised with Keith Johnson). *Perceptual considerations on tone targets and their alignment*.
Amanda Miller-Ockhuizen (Ph.D., 2001). *Grounding Ju|’hoansi phonotactics: The phonetics of the Guttural OCP and other acoustic modulations*.
Stefanie Jannedy (Ph.D., 2002). *Hat patterns and double peaks: The phonetics and psycholinguistics of broad versus late narrow versus double focus intonations*. (M.A., 1994). *Prosodic and segmental influences on high vowel devoicing in Turkish*.
Pauline Welby (Ph.D., 2003). *The slaying of Lady Mondagreen, being a study of French tonal association and alignment and their role in speech segmentation*.
Giorgos Tserdanelis (Ph.D., 2005, co-advised with Brian Joseph). *The role of segmental sandhi in the parsing of speech: Evidence from Greek*.
Kyuchul Yoon (Ph.D., 2005). *Building a prosodically sensitive diphone database for a Korean text-to-speech synthesis system*.

- Wai-Yi Peggy Wong (Ph.D., 2006, co-advised with Marjorie Chan). *Syllable fusion in Hong Kong Cantonese connected speech*.
- Katherine Woznicki (B.A., 2006). *An acoustic analysis of Slovene prosody*.
- Grant McGuire (Ph.D., 2007, co-advised with Keith Johnson). *Phonetic category learning*.
- Helena Riha (Ph.D., 2008). *Lettered words and roman letter characters in Chinese writing: A study of alphabetic writing in Chinese newswires*.
- Fangfang Li (Ph.D., 2008). *The phonetic development of voiceless sibilant fricatives in English, Japanese, and Mandarin Chinese*.
- Eunjong Kong (Ph.D., 2009). *The development of phonation-type contrasts in plosives: Cross-linguistic perspectives*.
- Su Ar Lee (Ph.D., 2010, co-advised with Fernando Martinez-Gil). *Absolute interrogative intonation patterns in Buenos Aires Spanish*.
- Chanelle Mays (B.A., 2010). *Gender differences in English and Japanese “s” versus “sh”*.
- Jocelyn Hardman (Ph.D., 2010, co-advised with Keiko Samimy). *The intelligibility of Chinese-accented English to international and American students at a U.S. university*.
- Oxana Skorniakova (M.A., 2010). *Sensitivity to sub-phonemic variation: Evidence from a Visual Analogue Scale (VAS) goodness-rating task*.
- Jeffrey J. Holliday (Ph.D., 2012). *The emergence of L2 phonological contrast in perception: The case of Korean sibilant fricatives*.
- Elizabeth A. McCullough (Ph.D., 2013). *Acoustic correlates of perceived foreign accent in non-native English*.
- Andrew R. Plummer (Ph.D., 2014). *The acquisition of vowel normalization during early Infancy: Theory and computational framework*.
- Patrick F. Reidy (Ph.D., 2015). *The spectral dynamics of voiceless sibilant fricatives in English and Japanese*.
- Jennifer Qian Zhang (M.A., 2016). *Nonsibilant fricative acquisition by bilingual Guoyu-Taiwanese Southern Min children*.

Extramural research and teaching:

- Visiting Faculty: LSA Summer Institute, UC Berkeley (6-23 July 2009); LSA Summer Institute, Harvard/MIT (27 June-15 July 2005); LOT Summer School, Uni. Tilburg (19-23 June 2000); LSA Summer Institute, UIUC (19-29 July 1999); Australian Linguistics Institute, Uni. Queensland (6-16 July 1998); Dept. Linguistics, UCLA (12-16 February 1996).
- Partner Investigator, *A kinematic and electropalatographic investigation of prosody in Australian English*, Australian Research Council Large Grant to J. Harrington, Macquarie University, Sydney, Australia (A\$180,000, 1997-1999).
- Visiting Researcher, ATR Interpreting Telecommunications Research Laboratories, Kyoto, Japan (Sep-Dec 1994, Mar-May 1995); Visiting Research Scholar, Speech, Hearing and Language Research Centre, Macquarie University, Sydney, Australia (Jan-Feb, 1995).
- Consultant, AT&T Bell Laboratories, Murray Hill, NJ [analysis of Japanese duration patterns] (1981-1982); [analysis and synthesis of Japanese intonation] (1985-1989; 1993-1994).
- Consultant, Eloquent Technology, Inc., Ithaca, NY [documentation of Japanese formant-based speech synthesis system], (1984).

Other professional activities:

- Member of: the Acoustical Society of America (elected Fellow, October 1993; served on Speech Communication Technical Committee, 1994-2000, 2016-2019); the Acoustical Society of Japan; the Association for Laboratory Phonology (member of the Interim Executive Council,

- 2010-2012; elected member of the Executive Council, 2012-2018); the Linguistic Society of America (elected Fellow, January 2011); the Phonetic Society of Japan; the International Phonetic Association (member of the Executive Council, 2003-2011; member of the Permanent Council for the Organization of the International Congresses of Phonetic Sciences, 2011-2019); the International Speech Communication Association.
- Editor, *Journal of Phonetics*, Vols. 18-22 (1990-1994); Editorial Board, *Language and Speech* (1994-1999), *Onsei Kenkyuu* (2000-present), *Journal of Phonetics* (1995-present), *Speech Communication* (2005-present); Ad hoc Associate Editor for special issue of *IEEE Transaction on Speech and Audio Processing* on spontaneous speech processing and recognition (2003-2004).
- Co-organizer (with Mary Stevens), Workshop on Language Socialization and Sound Change in Progress (satellite workshop to the 4th Workshop on Sound Change), 19 April 2017.
- Organizing Committee, Workshop for Young Female Researchers in Speech Science & Technology (satellite workshop to Interspeech 2016), 8 September 2016.
- Co-organizer (with Felicitas Kleber), Workshop on Gestural Coordination Within and Between Speakers in First Language Phonological Acquisition (satellite workshop to the 14th Conference on Laboratory Phonology), 28 July 2014.
- Mary E Beckman (2011). Passings: Ilse Lehiste (1922-2010). *Acoustics Today*, 7(1): 53.
- Mary E. Beckman and Linda Shockey (2011). In Memoriam: Ilse Lehiste. *Journal of the International Phonetic Association*, 41(1): 132-134.
- Cyberling2009 workshop, Berkeley, CA (17-19 July 2009): invited participant; co-chair of Working Group on Annotation Standards.
- NSF Linguistics Program Review Panel (2004-2007); CDI Type II Pre-Proposal Panel (2008).
- NIH Special Study Section, LCOM (July 2007, February 2008, July 2009).
- Advisory Committee, Terascale Linguistics Initiative; presentation on “Some methods and salient results in large- scale phonology” at NSF Workshop on Terascale Linguistics, 25-26 October, 2003; presentation on “Terascale resources for research in prosody-discourse-syntax” at LSA Town Meeting, 8 January 2004.
- Symposium Organizer, “Intonation and Processing,” International Congress of Phonetic Sciences, 3-9 August 2003, Barcelona.
- External Advisory Committee for *Spontaneous Speech: Corpus and Processing Technology*, a Japanese Science and Technology Agency Priority Program inter-institutional large grant to the Tokyo Institute of Technology, the National Institute for Japanese Language, and the Communication Research Laboratory (1999-2004).
- International Advisory Board, LOT [Netherlands Graduate School of Linguistics], a federation of research institutes at the Universities of Amsterdam, Leyden, Nijmegen, Tilburg, and Utrecht (appointed May, 1999).
- Conference organizer (with J. Kingston), First Conference in Laboratory Phonology, Ohio State University, Columbus (13-15 June 1987); Series editor (with J. Kingston), *Papers in Laboratory Phonology* (volumes 1-6), Cambridge University Press (1987-2004).
- Invited Participant at: NSF Workshop for Discussing Research Priorities and Evaluation Strategies in Speech Synthesis, Washington, DC (6-7 August 1998); NSF Workshop on Spoken Language Understanding, Washington, D.C. (10-11 February 1992).
- Member, International Scientific Committee, for: Interspeech 2012 [Area Coordinator for Linguistics, etc.] (9-13 September 2012); 17th ICPhS, Hong Kong (17-21 August 2011), Interspeech 2010 [Area Coordinator for Linguistics, Phonology, Phonetics] (25-30

September 2010); Third TIE Conference, Lisbon, Portugal (15-17 September 2008), 16th ICPhS, Saarbrücken, Germany (6-11 August 2007), LabPhon10, Paris, France (29 June – 1 July 2006), Speech Prosody 2006, Dresden, Germany (2-5 May 2006), Speech Prosody 2004, Nara, Japan (22-26 March 2004), ESCA Workshop on Intonation, Athens, Greece (18-20 September 1997); Concept to Speech Generation Systems Workshop, 35th Annual Meeting of the Association for Computational Linguistics, Madrid, Spain (11 July 1997); 1st ESCA Tutorial and Research Workshop on Speech Production (4th Speech Production Seminar), Autrans, France (21-24 May 1996); ESCA Workshop on Prosody, Lund University Department of Linguistics and Phonetics, Lund, Sweden (27-29 September 1993).
 Member, Organizing Committee for: *WAVEip*, Victoria University of Wellington (12-14 December 2000); Intonation: Models and ToBI Labeling, a satellite meeting to ICPhS 99, San Francisco, CA (1 August 1999); ATR Workshop on Issues in Temporal Organization for Speech, Turtle Bay, Oahu, HI (7-9 December 1996).
 Invited participant, Prosodic Transcription Workshop, MIT Lab for Computer Science, Cambridge, MA (1-2 August, 1991); Second Prosodic Transcription Workshop, NYNEX Science and Technology, Inc., White Plains, NY (5-6 April 1992); Fourth Prosodic Transcription Workshop, Department of Electrical, Computing, and Systems Engineering, Boston University, Boston, MA (5-6 August 1994);
 Organizer, Workshop on Prosodically Transcribed Data and Transcription Tools for Linguistics Research, Ohio State University (17-21 June 1993);
 Co-author (with J. Hirschberg), *The ToBI Annotation Conventions*.
 Co-author (with G. Ayers Elam), *Guide to ToBI Labelling (A Tutorial Introduction, with Accompanying Example Utterances)*.

Awards and honors:

International Speech Communication Association, Medal for Scientific Achievement, 2015.
 Anneliese Maier Research Award, Alexander von Humboldt Foundation, 2014-2019 (EUR 250,000).
 National Institute of Deafness and Other Communication Disorders [NIDCD], *Longitudinal study of vocabulary growth and phonological development*, with Jan Edwards (PI at lead institution, University of Wisconsin, Madison) and Benjamin Munson (University of Minnesota). April 2011-March 2016. (\$3,171,976 over the three institutions.)
 Ohio State University, Harlan Hatcher Arts and Sciences Distinguished Faculty Award, 2011.
 Ohio State University Center for Cognitive Science Seed Grant, *Using manifolds to model phonological learning in infancy and early childhood*, with Mikhail Belkin and Eric Fosler-Lussier (Computer Science and Engineering). (\$28,654), 2010-2011.
 National Science Foundation [NSF]. *Doctoral dissertation research: Native-language and native-dialect effects in learning to perceive a difficult phonetic contrast in Korean*. Funds dissertation research of Co-PI Jeffrey J. Holliday (\$9,660), July 2010-June 2012.
 NSF grant no. BCS-0729306, *DHB/Collaborative Research: Using machine learning to model the interplay of production dynamics and perception dynamics in phonological acquisition*, lead institution of a multi-site grant with Eric Fosler-Lussier (co-PI, OSU), Jan Edwards (University of Wisconsin, Madison), Benjamin Munson (University of Minnesota) (\$700,000 over the three institutions), 2008-2011.
 NIDCD grant no. DC02932, *A cross-linguistic investigation of phonological development*, with Jan Edwards (\$1,568,486), 2003-2008. [Grant transferred to University of Wisconsin, Madison, in 2005 and subsequent support at Ohio State University continued as subcontract.]

- SBC/Ameritech Faculty Research Fellowship, *Building Systems to Teach Speech Synthesis*, with Chris Brew (\$24,774), 2001-2002.
- Lucent Speech Solutions, *Transcription Services — Phonetic Labelling* (\$50,000), 2000-2001.
- Ohio State University, Interdisciplinary Seed Grant, *Establishing a Repository of Linguistically Varied, Prosodically Transcribed Spoken Language Data*. (\$104,222; 1999-2000).
- NIDCD, *Assessing phonetic skills in children with articulation disorders of unknown origin*, with J. Edwards, M. Fourakis, & R. Fox (Ohio State University, Speech & Hearing Sciences), (\$546,090), 1998-2000.
- Motorola Corporation, *Labelling/Transcription Services* (\$82,800; 1998-1999).
- AT&T Corporation, *Transcribing/Labelling Services* (\$181,750), 1997-2000.
- Ohio State University Distinguished Scholar Award (\$20,000), 1995.
- NSF, *Prosodically Transcribed Data and Transcription Tools for Linguistics Research* (\$60,000), 1993.
- Motorola University Partnership in Research award, *Speech Recognition Based on Acoustic and Auditory Dynamics*, with S. Ahalt (Electrical Engineering) (\$42,924) 1992-1994.
- Ohio State University Center for Cognitive Science, Interdisciplinary Seed Grant, *Speech Recognition and Auditory Processing*, with L. Feth & R. Fox (Dept. Speech & Hearing), & S. Ahalt & A. Krishnamurthy (Electrical Engineering) (\$23,228), 1990-1991.
- Digital Equipment Corporation grant #1030, *Speech Timing Models in Speech Synthesis by Rule* (\$47,155 toward new equipment, 1990) and equipment award (\$38,328), 1989.
- NSF grant no. IRI-8902142, *Pilot Project on Speech Recognition using Layered Abduction and Explicit Representation of Speech and Linguistic Knowledge*, with J. Josephson & T. Patten (Computer Science), L. Feth & R. Fox (Speech & Hearing), & A. Krishnamurthy (Electrical Engineering) (\$50,000), 1989.
- NSF grant no. IRI-8858109, Presidential Young Investigator Award (\$252,537), 1988-1994.
- NSF grant no. IRI-8617852, *The Organization of Informational Structure in Articulator Movement and Acoustic Duration Patterns* (\$119,257 plus \$4000 supplement awarded under Research Experience for Undergraduates program), 1987-1990

Publications

Books:

- Kingston, J., & Beckman, M. E., eds. (1990). *Papers in Laboratory Phonology I: Between the Grammar and the Physics of Speech*. Cambridge University Press.
- Pierrehumbert, J. B., & Beckman, M. E. (1988). *Japanese Tone Structure (Linguistic Inquiry Monograph Series No. 15)*. MIT Press.
- Beckman, M. E. (1986). *Stress and Non-Stress Accent (Netherlands Phonetic Archives No. 7)*. Foris. (Second printing, 1992, by Walter de Gruyter.)

Articles in journals and other peer-reviewed archival series:

- Vasisht, S., Nicenboim, B., Beckman, M. E., Li, F., & Kong, E. J. (2018). Bayesian data analysis in the phonetic sciences: A tutorial introduction. *Journal of Phonetics*, 71: 147-161.
- Beckman, M. E., Plummer, A. R., Munson, B., & Reidy, P. F. (2017). Methods for eliciting, annotating, and analyzing databases for child speech development. *Computer Speech and Language*, 45: 278-299.
- Plummer, A. R., & Beckman, M. E. (2015). Framing a socio-indexical basis for the emergence and cultural transmission of phonological systems. *Journal of Phonetics*, 53: 66-78.

- Holliday, J. J., Reidy, P. F., Beckman, M. E., & Edwards, J. (2015). Quantifying the robustness of the English sibilant fricative contrast in children. *Journal of Speech, Language, and Hearing Research*, 58(3): 622-637.
- Edwards, J., Beckman, M. E., & Munson, B. (2015). Frequency effects in phonological acquisition. *Journal of Child Language*, 42(2): 306-311.
- Beckman, M. E., Li, F., Kong, E. J., & Edwards, J. (2014). Aligning the timelines of phonological acquisition and change. *Laboratory Phonology*, 5(1): 151-194.
- Kong, E. J., Beckman, M. E., & Edwards, J. (2012). Voice onset time is necessary but not always sufficient to describe acquisition of voiced stops: The cases of Greek and Japanese. *Journal of Phonetics*, 40(6): 725-744.
- Syrika, A., Nicolaidis, K., Edwards, J., & Beckman, M. E. (2011). Acquisition of initial /s/-stop and stop-/s/ sequences in Greek. *Language and Speech*, 54(3): 361-386.
- Kong, E. J., Beckman, M. E., & Edwards, J. (2011). Why are Korean tense stops acquired so early: The role of acoustic properties. *Journal of Phonetics*, 39(2): 196-211.
- Edwards, J., Munson, B., & Beckman, M. E. (2011). Lexicon-phonology relationships and dynamics of early language development — A commentary on Stoel-Gammon's 'Relationships between lexical and phonological development in young children'. *Journal of Child Language*, 38(1): 35-40.
- Okalidou, A., Syrika, A., Beckman, M. E., & Edwards, J. (2011). Adapting a receptive vocabulary test for preschool-aged Greek-speaking children. *International Journal of Language and Communication Disorders*, 46(1): 95-107.
- Beckman, M. E., & Edwards, J. (2010). Generalizing over lexicons to predict consonant mastery. *Laboratory Phonology*, 1(2): 319-343.
- Munson, B., Edwards, J., Schellinger, S., Beckman, M. E., & Meyer, M. (2010). Deconstructing phonetic transcription: Language-specificity, covert contrast, perceptual bias, and an extraterrestrial view of *vox humana*. *Clinical Linguistics and Phonetics*, 24(4-5): 245-260.
- Gooden, S., Drayton, K.-A., & Beckman, M. E. (2009). Tone inventories and tune-text alignments: Prosodic variation in 'hybrid' prosodic systems. *Studies in Language*, 33(2), 354-394.
- Li, F., Edwards, J., & Beckman, M. E. (2009). Contrast and covert contrast: The phonetic development of voiceless sibilant fricatives in English and Japanese toddlers. *Journal of Phonetics*, 37(1), 111-124.
- Edwards, J., & Beckman, M. E. (2008). Methodological questions in studying consonant acquisition. *Clinical Linguistics and Phonetics*, 22(12), 937-956.
- Edwards, J., & Beckman, M. E. (2008). Some cross-linguistic evidence for modulation of implicational universals by language-specific frequency effects in the acquisition of consonant phonemes. *Language Learning and Development*, 4, 122-156.
- Beckman, M. E., Munson, B., & Edwards, J. (2007). Vocabulary growth and the developmental expansion of types of phonological knowledge. *Laboratory Phonology* 9, 241-264.
- Munson, B., Edwards, J., & Beckman, M. E. (2005). Phonological knowledge in typical and atypical speech sound development. *Topics in Language Disorders*, 25, 190-206.
- Munson, B., Edwards, J., & Beckman, M. E. (2005). Relationships between nonword repetition accuracy and other measures of linguistic development in children with phonological disorders. *Journal of Speech, Language, and Hearing Research*, 48, 61-78.

- Edwards, J., Beckman, M. E., & Munson, B. (2004). The interaction between vocabulary size and phonotactic probability effects on children's production accuracy and fluency in novel word repetition. *Journal of Speech, Language, and Hearing Research*, 47, 421-436.
- Furui, S., Beckman, M., Hirschberg, J. B., Itahashi, S., Kawahara, T., Nakamura, S., & Narayanan, S. (2004). Introduction to the special issue on spontaneous speech processing. *IEEE Transactions on Speech and Audio Processing*, 12, 394-350.
- Hay, J., Pierrehumbert, J., & Beckman, M. (2003). Speech perception, well-formedness and the statistics of the lexicon. In J. Local, R. Ogden, & R. Temple, eds., *Phonetic Interpretation: Papers in Laboratory Phonology VI*, pp. 58-74. Cambridge: Cambridge University Press.
- Beckman, M. E., & Pierrehumbert, J. (2003). Interpreting 'phonetic interpretation' over the lexicon. In J. Local, R. Ogden, & R. Temple, eds., *Phonetic Interpretation: Papers in Laboratory Phonology VI*, pp. 13-37. Cambridge University Press.
- Beckman, M. E., Yoneyama, K., & Edwards, J. (2003). Language-specific and language-universal aspects of lingual obstruent productions in Japanese-acquiring children. *Journal of the Phonetic Society of Japan*, 7, 18-28.
- Beckman, M. E., Díaz-Campos, M., McGory, J. T., & Morgan, T. A. (2002). Intonation across Spanish, in the Tones and Break Indices framework. *Probus*, 14, 9-36.
- Syrdal, A. K., Hirschberg, J., McGory, J. T., & Beckman, M. E. (2001). Automatic ToBI Prediction and Alignment to Speed Manual Labeling of Prosody. *Speech Communication* 33, 135-151.
- Beckman, M. E., & Edwards, J. (2000). The ontogeny of phonological categories and the primacy of lexical learning in linguistic development. *Child Development*, 71, 240-249.
- Harrington, J., Fletcher, J., & Beckman, M. E. (2000). Manner and place conflicts in the articulation of accent in Australian English. In M. Broe & J. Pierrehumbert, eds., *Papers in Laboratory Phonology V: Language Acquisition and the Lexicon*, pp. 40-51. Cambridge, UK: Cambridge University Press.
- Beckman, Mary E., & Edwards, Jan (2000). Lexical frequency effects on young children's imitative productions. M. Broe & J. Pierrehumbert, eds., *Papers in Laboratory Phonology V: Language Acquisition and the Lexicon*, pp. 208-217. Cambridge, UK: Cambridge University Press.
- Herman, R., Beckman, M., & Honda, K. (1999). Linguistic models of F0 use, physiological models of F0 control, and the issue of 'Mean Response Time'. *Language and Speech* 42, 373-399.
- Edwards, J., Fourakis, M., Beckman, M. E., & Fox, R. A. (1999). Characterizing knowledge deficits in phonological disorders. *Journal of Speech, Language, and Hearing Research* 42, 169-186.
- Jun, Sun-Ah, Beckman, Mary E., Niimi, Seiji, & Tiede, Mark (1997). "Electromyographic evidence for a gestural-overlap analysis of vowel devoicing in Korean," *The Journal of Speech Sciences (The Korean Association of Speech Sciences)*, 1, 153-200.
- Beckman, M. E. (1996). The parsing of prosody. *Language and Cognitive Processes*, 11, 17-67.
- Jung, T.-P., Krishnamurthy, A. K., Ahalt, S. C., Beckman, M. E., & Lee, S. (1996). Deriving gestural scores from articulator-movement records using weighted temporal decomposition. *IEEE Transactions on Speech and Audio Processing*, 4(1), 2-18.
- Beckman, M. E. (1995). On blending and the mora: comments on Kubozono. In B. Connell & A. Arvaniti, eds., *Phonology and Phonetic Evidence: Papers in Laboratory Phonology IV*, pp. 157-167. Cambridge University Press.

- Erickson, E., Honda, K., Hirai, H., & Beckman, M. E. (1995). The production of low tones in English intonation. *Journal of Phonetics*, 23(1/2), 179-188.
- Beckman, M. E., Jung, T.-P., Lee, S., de Jong, K., Krishnamurthy, A. K., Ahalt, S. C., Cohen, K. B. & Collins, M. (1995). Variability in the production of quantal vowels revisited. *Journal of the Acoustical Society of America*, 97(1), 471-490.
- Cole, R., Hirschman, L., Atlas, L., Beckman, M., *et al.* (1995). The Challenge of Spoken Language Systems: Research Directions for the Nineties. *IEEE Transactions on Speech and Audio Processing*, 3(1), 1-21.
- Beckman, M. E., & Edwards, J. (1994). Articulatory evidence for differentiating stress categories. In P.A. Keating, ed., *Phonological Structure and Phonetic Form: Papers in Laboratory Phonology III*, pp. 7-33. Cambridge University Press.
- de Jong, K., Beckman, M. E., & Edwards, J. (1993). The interplay between prosodic structure and coarticulation. *Language and Speech*, 36, 197-212
- Beckman, M. E., de Jong, K., Jun, S.-A., & Lee, S. (1992). The interaction of coarticulation and prosody in sound change. *Language and Speech*, 35, 45-58.
- Beckman, M. E., Edwards, J., & Fletcher, J. (1992). Prosodic structure and tempo in a sonority model of articulatory dynamics. In G. J. Docherty & D. R. Ladd, eds., *Papers in Laboratory Phonology II: Segment, Gesture, Prosody*, pp. 68-86. Cambridge University Press.
- Beckman, M. E., & Pierrehumbert, J. (1992). Comments on chapters 13 and 14. [original title: Strategies and tactics for thinking about F0 variation]. In G. Docherty & D. R. Ladd, eds., *Papers in Laboratory Phonology II: Segment, Gesture, Prosody*, pp. 387-397. Cambridge University Press.
- Edwards, J., Beckman, M. E., & Fletcher, J. (1991). Articulatory kinematics of final lengthening. *Journal of the Acoustical Society of America*, 89., 369-382.
- Edwards, J., & Beckman, M. E. (1988). Articulatory timing and the prosodic interpretation of syllable duration. *Phonetica*, 45, 156-174.
- Beckman, M. E., & Pierrehumbert, J. B. (1987). Tookyoo-go no ontyoo kozoo. [Tone structure in Tokyo Japanese.] *Onsei Gengo*, 2, 1-22.
- Beckman, M. E., & Pierrehumbert, J. B. (1986). Intonational structure in Japanese and English. *Phonology Yearbook*, 3, 255-309.
- Beckman, M. E., & Shoji, A. (1984). Spectral and perceptual evidence for CV coarticulation in devoiced /si/ and /syu/ in Japanese. *Phonetica*, 41, 61-71.
- Beckman, M. E. (1982). Segment duration and the 'mora' in Japanese. *Phonetica*, 39, 113-135. [Reprinted in Natsuko Tsujimura, ed. (2005). *Japanese linguistics: Critical concepts*. Vol. 1, *Phonology and morphology*. Routledge.]

Book chapters:

- Edwards, J., Beckman, M. E., & Munson, B. (2015). Cross-language differences in acquisition. In M. A. Redford, ed., *Handbook of speech production*, pp. 530-554. Wiley-Blackwell.
- Munson, B., Edwards, J., & Beckman, M. E. (2012). Phonological representations in language acquisition: Climbing the ladder of abstraction. In A. C. Cohn, C. Fougerson, M. K. Huffman, eds., *Handbook of laboratory phonology*, pp. 288-209. Oxford University Press.
- Beckman, M. E., & Venditti, J. J. (2011). Intonation. In J. Goldsmith, J. Riggle, & A. Yu, eds., *Handbook of phonological theory*, 2nd ed., pp. 485-532. Blackwell.
- Beckman, M. E., & Venditti, J. J. (2010). Tone and intonation. In W. J. Hardcastle, F. Gibbon, & J. Laver, eds., *Handbook of phonetic sciences*, 2nd ed., pp. 603-652. Blackwell.

- Arbisi-Kelm, T., & Beckman, M. E. (2009). Prosodic structure and consonant development across languages. In Marina Vigário, Sónia Frota, & Maria João Freitas (eds.) *Interactions in phonetics and phonology*, pp. 109-136. Amsterdam: John Benjamins.
- Venditti, J. J., Maekawa, K., & Beckman, M. E. (2008). Prominence marking in the Japanese intonation system. In S. Miyagawa & M. Saito, eds., *Handbook of Japanese linguistics*, pp. 458-514. Oxford University Press. [Reprinted 2012 in *Oxford Handbooks Online*, DOI: 10.1093/oxfordhb/9780195307344.013.0017]
- Beckman, M. E., Hirschberg, J., & Shattuck-Hufnagel, S. (2005). The original ToBI system and the evolution of the ToBI framework. In S.-A. Jun, ed., *Prosodic typology: The phonology of intonation and phrasing*, pp. 9-54. Oxford University Press.
- Peng, S., Chan, M. K. M., Tseng, C., Huang, T., Lee, O. J., & Beckman, M. E. (2005). Towards a Pan-Mandarin prosodic annotation system. In S.-A. Jun, ed., *Prosodic typology: The phonology of intonation and phrasing*, pp. 230-270. Oxford University Press.
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(with Fangfang Li & Ya-ting Shih) “The sociophonetics of gender in three Chinese varieties.” Keynote speech presented at the 30th North American Conference on Chinese Linguistics, Columbus, OH, USA (9-11 March 2018).

“The emergence of compositional structure in language evolution and development.” Keynote Speech presented in conjunction with being awarded the ISCA Medal of Scientific Achievement, Interspeech 2015, Dresden, Germany (7 September 2015).

“Phonetics of first language acquisition.” Introduction to discussant session at the 18th International Congress of Phonetic Sciences (9-14 August 2015).

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