

CURRICULUM VITAE

Jennifer Cole

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217-244-1116 (Beckman Institute)

*Department of Linguistics
University of Illinois
707 South Mathews
Urbana, IL 61801*

Educational Background

University of Michigan, B.A. Linguistics (highest distinction), 1982

University of Michigan, M.A. Linguistics, 1983

Massachusetts Institute of Technology, Ph.D. Linguistics, 1987

Academic Positions

1989-present **University of Illinois at Urbana-Champaign
Linguistics, Computer Science, Beckman Institute for Science and
Technology**

Professor, 2010-present

Associate Professor, 1998-2010

Assistant Professor, 1990-1998

Visiting Research Associate, 1989-90

2010-present **University of Illinois at Urbana-Champaign
Beckman Institute for Advanced Science and Technology**
Co-Chair of the Biological Intelligence Main Research Theme

1987-1989 **Yale University, Linguistics**

Instructor

Honors, Recognitions and Outstanding Achievements

1993-94, Center for Advanced Study Fellow, University of Illinois

1996-97, Humanities Released Time Award, University of Illinois

2002-03, Critical Research Initiative Award, University of Illinois

2004-05, Alumni Discretionary Award, University of Illinois

2014, Research Fellow, Institute for Phonetics and Speech Processing, Ludwig
Maximilian University of Munich

Invited Lectures (since promotion to tenure)

1998, March. "Current issues in phonology," Mind, Brain, Language Seminar, Center
for Advanced Study, University of Illinois.

1998, June. "A UR-free model of phonology." with J.I. Hualde. Speech Research
Laboratory Seminar, Indiana.

1999, Jan. "Prosodic and segmental effects on lenition in Spanish." University of
Chicago Linguistics Seminar.

1999, Jan. "Functionalism vs. formalism: an inquiry into the typology of harmony
systems." ChiPhon Workshop on Theory and Data in Speech Research,
University of Chicago.
University.

1999, June. "Teaching Phonology." Workshop on the Linguistics Classroom, Linguistic
Society of America Summer Institute.

- 1999, Aug. "Effects of vowel context on consonant place identification: implications for a theory of phonologization." ICPHS Satellite Conference on the Role of Perception in Phonology, San Francisco.
- 2000, May. "Cognitive and processing constraints on spoken language: evidence from phonology." Fourth International Conference on Cognitive and Neural Systems, Boston, MA.
- 2000, Nov. "Exploring the link between grammar and speech processing." Johns Hopkins University Cognitive Science Colloquium.
- 2001, April. "Phonology and Phonetics as Cognitive Science." A series of guest lectures in the UIUC Cognitive Science Proseminar.
- 2003, Oct. "Development of an Online Course in Sindhi." Presentation for the panel on South Asian Language Pedagogy at the 32rd Conference on South Asia, U Wisconsin.
- 2004, Jan. "Prosody and automatic speech recognition", Northwestern University Linguistics Colloquium.
- 2005, May. "Sindhi on the Brink", Biennial Conference on Pakistan Studies, American Institute of Pakistan Studies and the University of Pennsylvania.
- 2005, October. "Language, Identity and the Survival of Culture," Conference on Language, Terrorism and Ideology: The Sindhi Struggle in Pakistan, Washington, DC.
- 2006, April. "Prosodic effects on segment-level acoustic variation: Going beyond the phonetics laboratory," Linguistics Department, U Rochester
- 2006, April. "Converging Evidence for the Emergent Phonology of Harmony Systems," Linguistics and Brain & Cognitive Sciences Colloquium, U Rochester.
- 2007, Jan. "Complexity and perceptual factors in phonotactic learning," with Hahn Koo, Workshop on Artificial Grammar Learning, 81st Annual Meeting of the Linguistic Society of America, Anaheim, CA.
- 2007, September. "Emergent feature structures: Harmony systems in exemplar models of phonology," Indiana University Linguistics Colloquium.
- 2008, April. "The role of syntactic structure in guiding prosody perception with spontaneous speech," Experimental and Theoretical Approaches to Prosody, Cornell University.
- 2008, Nov. "Signal-based and expectation-based factors in prosody perception," Linguistics Colloquium, University of Iowa.
- 2008, Nov. "Beyond words: Prosody in speech production and perception." Beckman Institute Director's Seminar, University of Illinois.
- 2008, Dec. "Prosody perception in spontaneous speech." Linguistics Colloquium, University of New Mexico.
- 2009, Jun. "Corpus methods for phonology research," Linguistics Colloquium, University of Saskatchewan.
- 2010, March. "Processing and analytic biases for vowel harmony," University of Chicago Workshop on Language, Cognition, and Computation.
- 2010, Nov. "Prosody production in spontaneous speech: Phonological encoding, phonetic variability, and the prosodic signature of individual speakers," The Acoustical Society of America, Cancun, Mexico.

- 2010, Nov. "Investigating the variable prosody of everyday speech," Linguistics Colloquium, McMaster University.
- 2011, June. "Commentary on *Harvesting Speech Databases for Research in Linguistics*," Digging Into Data Conference, Washington, DC.
- 2011, July. "Modeling listener variability in prosody perception using transcription and imitation as indirect measures of linguistic processing," Workshop on Testing Models of Phonetics and Phonology, Linguistic Institute of America Summer Institute, Boulder, Colorado.
- 2011, August. "Perceiving phonology while hearing the speaker: Abstraction and adaptation in prosody perception," Japan Phonology Forum, Doshisha University, Kyoto.
- 2011, October. "Abstraction and phonetic detail in prosody perception," Institute for Research in Cognitive Science, University of Pennsylvania.
- 2011, December. "Prominence in phonology and phonetics," Linguistics Colloquium, University of California Los Angeles.
- 2012, October. "Prosody perception in spontaneous speech: What we can learn from annotators and imitators," Keynote lecture presented at Brazil Prosody School, Vitoria, Brazil.
- 2012, October. "Discreteness vs. gradience in prosodic form. Mini-course taught at the Brazil Prosody School," Vitoria, Brazil.
- 2013, January. "Rapid Prosody Transcription: Or how I learned to stop worrying and love variability," with Mark Hasegawa-Johnson. Workshop on Data Issues in Prosody Research, New York.
- 2013, February. "Memory for Prosody," Yale University and McGill University, Linguistics Colloquia.
- 2014, March. "Crowd-sourcing prosodic annotation: How Big (& Noisy) Data can inform the linguistic analysis of prosody in natural discourse," Cornell University and LMU Munich, Linguistics Colloquia.
- 2014, June. "Crowd-sourcing prosodic annotation for the linguistic analysis of prosody in natural discourse," Potsdam University.
- 2014, December. "An "easy questions" approach to hard problems in prosodic analysis," Michigan State University, Linguistics Colloquium.
- 2015, May. "Assessing agreement and variation in prosodic annotation with untrained listeners" (with J. Roy & T. Mahrt). Experimental and Theoretical Approaches to Prosody, University of Illinois.
- 2015, June. "Mapping sound to meaning: Prosody in spoken language comprehension," Board on Behavioral, Cognitive and Sensory Sciences, National Research Council.

Positions Held in Professional Societies

- 2006-2009, Member, Board of Trustees, American Institute of Pakistan Studies
- 2007-2010, Member, Executive Committee, Linguistic Society of America
- 2009-present, Founding Member and Chair of Organizing Committee, Association for Laboratory Phonology
- 2009-2015, Member, *ex officio*, Executive Council, Association for Laboratory Phonology

- 2010-2014, Elected Member-at-large, American Association for the Advancement of Science, Section Z (Linguistics)
 2012-present, Member, Committee of Editors of Linguistics Journals, Linguistic Society of America
 2013-2015, Member, Board on Behavioral, Cognitive and Sensory Sciences, National Research Council, National Academy of Sciences
 2015-2017, Chair-elect/Chair, American Association for the Advancement of Science, Section Z (Linguistics)

Editorships

- 1988-2001, Member, Associate Editorial Board, *Linguistic Inquiry*
 1988-2001, Member, Editorial Board, *Phonology*
 2006-2010, Member, Associate Editorial Board, *Language*
 2009- 2015, General Editor, *Laboratory Phonology*
 2012-2014, Senior Editor, *Oxford Research Reviews in Linguistics*

Grants (awards active in last 10 years)

- 7/1/97 - 6/30/14. Kay Bock (PI), Renee Baillargeon, Kiel Christianson, Jennifer Cole, Gary Dell, Kara Federmeier, Cynthia Fisher, Susan Garnsey, Brian Ross, Elizabeth Stine-Morrow, Chilin Shih, Duane Watson (co-PIs). Language Processing: A Training Program, National Institutes of Health, T32-HD055272.
 6/03 – 7/03. *The Design and Implementation of a Self-directed On-line Course on Spoken and Written Sindhi: Phase II*. Jennifer Cole (PI). Awarded under the National Security Education Program grant to the Program in Arms Control, Disarmament, and International Security, Univ. of Illinois. \$6,521.
 7/03 – 6/06. *The Role of Experience in the Production and Perception of Phonological Sequences*, Cynthia Fisher (PI), Jennifer Cole, Gary Dell (co-PIs). National Institute of Child Health & Human Development, National Institutes of Health NIH-HD-44458. \$594,149.
 1/04 – 7/05. *The Ninth Conference on Laboratory Phonology*, Jennifer Cole (PI). National Science Foundation, BCS-0335546. \$30,854.
 6/04 – 8/04. *The Development of an On-line Course in Spoken and Written Sindhi*, Jennifer Cole (PI). Sub-contract under South Asia Language Resource Center, US Department of Education. \$13,041.
 8/04 – 7/07. *Prosodic, Intonational and Voice Quality Correlates of Disfluency*, Mark Hasegawa-Johnson (PI), Jennifer Cole, Chilin Shih (co-PIs). National Science Foundation, IIS-0414117. \$385,940.
 1/05 – 8/06. *Sindhi Online: Phase II Development and Creation*, Jennifer Cole (PI). Sub-contract under South Asia Language Resource Center, US Department of Education. \$10,000.
 6/07 – 5/10. *RI-Collaborative Research: Landmark-based robust speech recognition using prosody-guided models of speech variability*, Jennifer Cole (PI), Mark Hasegawa-Johnson (co-PI), Carol Espy-Wilson (Lead PI for Collaborative Award). National Science Foundation, IIS-0703624. \$337,963.
 6/08 – 5/11. *The Role of Experience in the Production and Perception of Phonological Sequences*. Gary Dell (PI), Jennifer Cole, Cynthia Fisher (co-PIs). National

- Institutes of Child Health and Human Development, 2R01HD044458-04.
\$759,000.
- 1/09 – 1/10. Jennifer Cole (PI). REU Supplement to NSF grant: RI-Collaborative Research (see above). For undergraduate research support. \$20,720.
- 8/12 – 1/14. *Doctoral Dissertation Research: Modeling Temporal Coordination in Speech Production Using an Artificial Central Pattern Generator Neural Network*. Jennifer Cole (PI), Erin Rusaw. National Science Foundation, BCS 11-55592. \$5,298.
- 2/13 – 7/16. *Collaborative Research: Constituents and heads in prosody perception: A comparative study*. Jennifer Cole (lead PI), José I. Hualde (co-PI), Caroline Smith (co-PI). National Science Foundation, BCS-1251343. \$302,938.
- 8/13 – 2/15. *Prosodic and gestural entrainment in conversational interaction across diverse languages (PAGE)*. Co-PI on international collaborative project headed by Jonathan Harrington (U Munich). Volkswagen Stiftung. \$30,746 (UIUC direct costs).
- 10/13 – 9/15. *The Role of Maternal Prosody in Young Children's Physiological and Behavioral Regulation under Low- and High-Stress Conditions*. Nancy McElwain (PI), Jennifer Cole (co-PI), Daniel Berry (co-PI). UIUC, College of Agricultural, Consumer and Environmental Science, Future Interdisciplinary Research Explorations Program. \$48,121 (UIUC direct costs).
- 8/14 – 7/16. *Maternal Speech and Children's Physiological and Behavioral Regulation*. Nancy McElwain (PI), Jennifer Cole (co-PI), Daniel Berry (co-PI). National Science Foundation, IBSS. \$249,744.

Reviewing

Linguistics Department External Review Committees (SUNY-Stony Brook 2000; Northwestern 2015)

Proposal Reviewer, South Asia Language Resource Center (U Chicago), 2005

NSF Panelist: KDI-LIS (one panel); SBIR-STTR (one panel)

NSF Linguistics Advisory Panel (a term of 3 years)

Ad-hoc reviewing for the National Science Foundation, University of Illinois

Research Board, South Asia Language Resource Center, for the journals *Journal of the Acoustical Society of America*, *Journal of Phonetics*, *Language*, *Linguistics*, *The Linguistic Review*, *Natural Language and Linguistic Theory*, *Phonetica*, *Phonology*, *Southwest Journal of Linguistics*, *Studies in the Linguistic Sciences*, and *World Englishes*, for the annual meetings of the North Eastern Linguistics Society, the Formal Linguistics Society of Mid-America, the West Coast Conference on Formal Linguistics, for the Conference on Laboratory Phonology, Speech Prosody, Tone and Intonation in Europe, International Congress of Phonetic Sciences, Interspeech, Phonetics and Phonology in Europe, and for MIT Press and Cambridge University Press.

Conference & Workshop Service Activities

Chair, The Organization of Phonology Conference, University of Illinois, 1990.

Chair, Linguistics and Computation Conference, Univ. of Illinois, 1990.

Chair, 2nd Mid-Continental Workshop in Phonology, Univ. of Illinois, 1996.

Chair, 9th Conference on Laboratory Phonology, Univ. of Illinois, 2004.
 Invited participant, Workshop on intonation labeling (ToBI) for spontaneous speech, Simmons College, 2004.
 Co-Chair, Special Session on New Approaches to Modeling Variability for Automatic Speech Recognition, Interspeech 2009, Brighton, UK, 2009.
 Member, Scientific Committee, Speech Prosody 2010, Chicago.
 Chair, 17th Mid-Continental Conference on Phonetics and Phonology, Univ. of Illinois, 2011.
 Co-chair, Workshop on Advancing Prosodic Transcription, a satellite to the Laboratory Phonology 13 meeting in Stuttgart, Germany, July 2012.
 Member, Scientific Committee, International Workshop on Imitation in Speech, 2012, Aix-en-Provence.
 Member, Scientific Committee, Tools and Resources for the Analysis of Speech Prosody, 2013, Aix-en-Provence.

University Service

Representative to the faculty senate, Univ. of Illinois, 1992-1996
 Member, College of Engineering Executive Committee's subcommittee on course evaluation, 1996.
 Co-chair, Search committee in Computational Linguistics, Linguistics, 2002-2003
 LAS General Education Committee, Univ. of Illinois, 2002-2005
 Campus General Education Committee, Univ. of Illinois, 2003-2005
 Affirmative Action Officer, Linguistics, Univ. of Illinois, 2004-2006
 Chair, Search committee in Phonetics and Phonology, Linguistics, 2006-2007
 Campus Honors Council, Univ. of Illinois, 2006-2008
 Campus International Council, Univ. of Illinois, 2006-2008
 Campus Space Committee, Univ. of Illinois, 2010-2011.
 UIUC Graduate College Block Grant Fellowship Committee, Fall 2010.
 UIUC College of LAS Executive Committee, Spring 2011.
 UIUC College of LAS Faculty Appeals Committee, 2011-2012.
 UIUC Graduate College Executive Committee, 2011-2013.
 UIUC, School for Literatures, Cultures & Linguistics, Executive Committee, 2012-2014.
 UIUC, LAS Nominating Committee, 2013-2015.
 UIUC, Member, Committee to review the Campus Research Board, 2014-2015.

Doctoral Committees

Chaired [22]

Feng-lan Kuo (Ph.D. 1994); *Aspects of segmental phonology and Chinese syllable structure*. [Director, Graduate Institute of Children's English, National Changhua University of Education, Taiwan]
 Jae-Young Lee (Ph.D. 1996); *Some aspects of English phonology : an optimality theoretic approach* [Prof., English, Seoul National University]
 Elaine Hsiao (defended 1997)
 Molly Homer (Ph.D. 1998); *The role of contrast in nasal harmony* [Academic Honors Advisor, Western Illinois University]

- Joo-Kyeong Lee (Ph.D. 1999); *A phonetic examination of C-to-V place assimilation* [Assoc. Prof., English Language & Literature, University of Seoul]
- Mee-Jin Ahn (Ph.D. 2000); *Phonetic and functional bases of syllable weight for stress assignment* [Assoc. Prof., English Linguistics & Literature, Paichai University, Korea]
- Khalil Iskarous (Ph.D. 2001); *Dynamic acoustic-articulatory relations* [Asst. Prof., Linguistics, University of Southern California]
- Kiwako Ito (Ph.D. 2002); *The interaction of focus and lexical pitch accent in speech production and dialogue comprehension : Evidence from Japanese and Basque* [Research Scientist, Psycholinguistics, Ohio State Univ.]
- Rajka Smiljanic (Ph.D.2002); *Lexical, pragmatic and positional effects on prosody in two dialects of Croatian and Serbian: An acoustic study* [Assoc. Prof., Linguistics, U Texas, Austin]
- Hansook Choi (Ph.D. 2004); *Prosodically induced acoustic variation in English, Korean, and Hindi* [Visiting Scholar, Haskins Laboratories, New Haven, CT.]
- Heejin Kim (Ph.D. 2006); *Acoustic correlates of rhythm in American English* [Visiting Research Scientist, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign]
- Tae-Jin Yoon (Ph.D. 2007); *A Predictive Model of Prosody through Grammatical Interface: A Computational Approach* [Asst. Prof., English Language and Literature, Cheongju University, Korea]
- Gary Linebaugh (Ph.D. 2007); *Phonetic Grounding and Phonology: Vowel Backness Harmony and Vowel Height Harmony* [Asst. Prof., English, American University of Sharjah, UAE]
- Simon Donnelly (Ph.D., 2007); *Phuthi Phonology* [Asst. Prof. Linguistics, Univ. Witwatersrand until 2006; Seminarian, 2006-2009; Catholic priest, 2010-present]
- Hahn Koo (Ph.D. 2007); *Change in the adult phonological processing system by learning non-adjacent phonotactic constraints from brief experience: An experimental and computational study* [Assoc. Prof. Linguistics, San Jose State University]
- Young-il Oh (Ph.D. 2009); *Prosodic and syntactic factors in the phonetic realization of function words in American English* [Professor, English Language & Literature, Seoul National University of Science and Technology]
- Yoonsook Mo (Ph.D., 2011); *Prosody production and perception with conversational speech* [Asst. Prof., Department of English & Linguistics, Gwangju Institute of Science and Technology, Korea]
- Eman Saadah (Ph.D., 2011); *The production of Arabic vowels by English L2 learners and heritage speakers of Arabic* [Instructor of Arabic, Linguistics, University of Illinois]
- Erin Rusaw (Ph.D., 2013); *Modeling Temporal Coordination in Speech Production Using an Artificial Central Pattern Generator Neural Network* [Google]
- Alina Khasanova (Ph.D., 2013); *The structure of variation in Spontaneous American English Stops.*
- Vandana Puri (Ph.D., 2013); *Intonation in Indian English and Hindi Late and Simultaneous Bilinguals.*
- Lisa Pierce (Ph.D., 2014); *Learning Novel Vowel Contrasts: Experimental Methods in Classroom Applications* [ESL Director, Lynchburg College]

Member (Linguistics): D. Scarpace, A. Rozovskaya, Y-H. Cheng, E.K. Lee, S-C Rhee, M. Smets, A. Andreasson, D. Hartkemeyer, F. Bennett, S-K Kang, Y-S Kang, S. Mmusi, A. Diop, M. Niang, W. Monareng, B. Hancin-Bhatt, E. Kovach, K-H. Lee, Z. Branstine.

Member (other departments): J. Young (Ed. Psych), A. Trude (Psychology), M. Nadeu (Spanish), J. Young (Curriculum & Instruction), J. Huang (ECE), A. Saalfeld (Spanish), Y. Chen (Spanish), M. Simonet (Spanish), P. Carrasco (Spanish), L. Ferreira (Spanish), E. O'Rourke (Spanish), A. Lewis (Spanish), E. Willis (Spanish), M. Prieto (Spanish), S. Colina (Spanish), A. Morales (Spanish), P. Prieto (Spanish), B. Sanders (Spanish), F. Hwu (Spanish), H. Nibert (Spanish), J. Miller (French), K. Chambers (Psychology), K. Chen (ECE), B. Felt (Slavic).

Courses Taught

Graduate and undergraduate Phonology, Advanced Topics in Phonology, Acoustic Phonetics, Field Methods, Mathematical Linguistics, Computational Linguistics, Practicum, Introduction to Language Science, graduate seminars on various topics in phonology, computational linguistics, acoustic phonetics, prosody, intonational phonology, digital speech analysis, speech perception, and laboratory phonology.

Publications (in reverse chronological order)

Doctoral Thesis

Planar Phonology and Morphology, Advisor and Thesis Director: Morris Halle, M.I.T., 1987.

Books authored

Cole, J. 1991. *Planar Phonology and Morphology*. In the Outstanding Dissertations in Linguistics Series, J. Hankamar (ed.). NY: Garland Press.

Books edited

Cole, J. and J. I Hualde, eds. 2007. *Laboratory Phonology 9*, Berlin: Mouton de Gruyter.

Cole, J., G. Green and J. Morgan, eds. 1995. *Linguistics and Computation*, Stanford: CSLI.

Cole, J. and C. Kisseberth, eds. 1994. *Perspectives in Phonology*, Stanford: CSLI.

Chapters in Books

Cole, J. and S. Shattuck-Hufnagel. (in review, 2015). Quantifying phonetic variation: Landmark labeling of imitated utterances. For Clayards, M. (ed.). *Rethinking Reduction*. Berlin: Mouton de Gruyter.

Cole, J. and J.I. Hualde. 2013. Prosodic structure in Sound Change. In Shu-Fen Chen and Benjamin Slade (eds.), *Grammatica et verba / Glamour and verve — Studies in South Asian, Historical, and Indo-European Linguistics: A Festschrift in Honor of Professor Hans Henrich Hock on the Occasion of His 75th Birthday*. Ann Arbor, MI: Beech Stave Press, pp. 28-45.

- Cole, J., and M. Hasegawa-Johnson. 2012. Corpus phonology with speech resources. In A. Cohn, C. Fougeron, and M. Huffman (eds.), *Handbook of Laboratory Phonology*. Oxford, UK: Oxford University Press, pp. 431-440.
- Cole, J. and J.I. Hualde. 2011. "Underlying Representations." In van Oostendorp, Marc, Colin J. Ewen, Elizabeth Hume and Keren Rice (eds.), *The Blackwell Companion to Phonology*. Blackwell Publishing, pp. 1-26.
See also Blackwell Reference Online. 18 September 2011
<http://www.companiontophonology.com/public/book?id=g9781405184236_9781405184236>
- McMurray, B., Cole, J., Munson, C. 2011. Features as an emergent product of perceptual parsing: Evidence from vowel-to-vowel coarticulation. In C.N. Clements and R. Ridouane (eds.), *Where do Phonological Features Come From? Cognitive, Physical and Developmental Bases of Distinctive Speech Categories*, Amsterdam, The Netherlands: John Benjamins, pp. 197-236.
- Hasegawa-Johnson, M., Cole, J., Chen, K., Partha, L., Juneja, A., Yoon, T., Borys, S., Zhuang, X. 2009. Prosodic Hierarchy as an organizing framework for the sources of context in phone-based and articulatory-feature-based speech recognition. In Tseng, S. (ed.), *Linguistic Patterns of Spontaneous Speech*, Special Issue of *Language and Linguistics*. Taipei, Taiwan: Academica Sinica, pp. 101-128.
- Yoon, T. Zhuang, X.; Cole, J., Hasegawa-Johnson, M. 2009. Voice quality dependent speech recognition, In Tseng, S. (ed.), *Linguistic Patterns of Spontaneous Speech*, Special Issue of *Language and Linguistics*. Taipei, Taiwan: Academica Sinica, pp. 77-100.
- Chen, K., Hasegawa-Johnson, M. and Cole, J. 2007. Chen, K., Hasegawa-Johnson, M., Cole, J. 2007. A Factored Language Model for Prosody-Dependent Speech Recognition, *Robust Speech Recognition and Understanding*, Michael Grimm and Kristian Kroschel, Ed., pp. 319-331. Vienna, Austria: I-Tech Education and Publishing.
- Cole, J. 2006. The Sindhi Language. In K. Brown (ed.) *Encyclopedia of Language and Linguistics, 2nd Edition*, v.11:384-386. Oxford: Elsevier.
- Cole, J. 2005. Sindhi. In Strazny, Philipp (ed.) *Encyclopedia of Linguistics*. New York: Routledge.
- Cole, J. 2001. Sindhi. In Garry, J. and C. Rubino (eds.), *Facts about the World's Languages: An Encyclopedia of the World's Major Languages, Past and Present*, pp. 647-653. New York, NY: The H.W. Wilson Company.
- Cole, J. and K. Iskarous. 2001. Effects of vowel context on consonant place identification: implications for a theory of phonologization. In E. Hume and K. Johnson (eds.), *The Role of Speech Perception in Phonology*, pp. 103-122. New York: Academic Press.
- Cole, J. 1999. Integrating the phonetics and phonology of tone alignment. In M. Broe and J. Pierrehumbert (eds.), *Papers in Laboratory Phonology V: Language Acquisition and the Lexicon*, pp. 168-179. Cambridge: Cambridge University Press.
- Cole, J. 1995. The cycle in phonological grammar. In J. Goldsmith (ed.), *Handbook of Phonological Theory*, pp. 70-113. Cambridge, MA: Basil Blackwell.

- Cole, J. 1995. Eliminating cyclicity as a source of complexity in processing phonology. In J. Cole, J. Morgan, and G. Green (eds.) *Linguistics and Computation*, pp.255-280. Stanford: CSLI.
- Cole, J. and L.Trigo. 1989. Parasitic harmony. In van der Hulst, H. and Smith, N. (eds.), *Features, Segmental Structure and Harmony Processes*, pp. 19-39. Dordrecht: Foris.

Journal articles

- Hasegawa-Johnson, M., Cole, J., Jyothi, P., Varshney, L. 2015. Models of dataset size, question design, and cross-language speech perception for speech crowdsourcing applications. To appear in *Laboratory Phonology*. 6.3-4: 381-431, DOI 10.1515/lp-2015-0012.
- Cole, J. 2015. Prosody in context: a review, *Language, Cognition and Neuroscience*, 30:1-2, 1-31. DOI: 10.1080/23273798.2014.963130.
- Cole, J., Mo, Y., Hasegawa-Johnson, M. 2010. Signal-based and expectation-based factors in the perception of prosodic prominence. *Laboratory Phonology*. 1: 425–452.
- Cole, J. Mo, Y., Baek, S. 2010. The role of syntactic structure in guiding prosody perception with ordinary listeners and everyday speech. *Language and Cognitive Processes*. 25: 7, 1141 – 1177.
- Cole, J., McMurray, B., Linebaugh, G., Munson, C. 2010. Unmasking the acoustic effects of vowel-to-vowel coarticulation: A statistical modeling approach. *Journal of Phonetics*, 38: 167-184.
- Cole, J. 2009. Emergent feature structures: Harmony systems in exemplar models of phonology. *Language Sciences*, 31: 144–160.
- Cole, J., Kim, H., Choi, H. and Hasegawa-Johnson, M. 2007. Prosodic effects on acoustic cues to stop voicing and place of articulation: Evidence from Radio News speech. *Journal of Phonetics* 35: 180-209.
- Chen, K., Hasegawa-Johnson, M. Cohen, A., Borys, S., Kim, S-S., Cole, J., and Choi, J-Y . 2006. Prosody dependent speech recognition on Radio News corpus of American English. *IEEE Transactions in Speech and Audio Processing*. 14(1): 232-245.
- Hasegawa-Johnson, M., Chen, K., Cole, J., Borys, S., Kim, S., Cohen, A., Zhang, T., Choi, J., Kim, H., Yoon, T., Chavarría, S. 2005. Simultaneous recognition of words and prosody in the Boston University radio speech corpus. *Speech Communication*, v. 46, Issues 3-4, pp. 418-439.
- Choi, J-Y., Hasegawa-Johnson, M. and Cole, J. 2005. Finding intonational boundaries using acoustic cues related to the voice source. *J Acoustical Society of America*, 118(4): 2579-88.
- Guest, D., G. Dell and J. Cole. 2000. Violable constraints in language production: Testing the transitivity assumption of Optimality Theory. *Journal of Memory and Language*, 42: 272-299.
- Cole, J. 1998. Deconstructing metaphony. *Rivista di Linguistica*, 10: 69-98.
- Sevald, C., G. Dell and J. Cole. 1995. Syllable structure in speech production: are syllables chunks or schemas? *Journal of Memory and Language*, 34: 807-820

Manuscripts currently under journal review

- Luchkina, T., Cole, J. (in review, revision in progress, 2015). Structural and referent-based effects on prosodic expression in Russian.
- Cole, J., Shattuck-Hufnagel, S. (in review, revision in progress, 2015). New methods for prosodic transcription: Capturing variability as a source of information.
- Roy, J., Cole, J., Mahrt, T. (in review, 2015). Individual differences and patterns of convergence in prosody perception.

Papers appearing in conference proceedings

- Reichel, U., Pörner, N., Nowack, D., Cole, J. 2015. Analysis and classification of cooperative and competitive dialogs. *Proceedings of Interspeech 2015*, Dresden.
- Kimball, A., Cole, J., Dell, G., Shattuck-Hufnagel, S. 2015. Categorical vs. episodic memory for pitch accents in English. *Proceedings of the International Congress on Phonetic Sciences*, Glasgow.
- Cole, J., Hualde, J.I., Eager, C. Mahrt, T. 2015. On the prominence of accent in stress reversal. *Proceedings of the International Congress on Phonetic Sciences*, Glasgow.
- Luchkina, T., Jyothi, P., Sharma, V., Cole, J. 2015. Prosodic and structural correlates of perceived prominence in Russian and Hindi. *Proceedings of the International Congress on Phonetic Sciences*, Glasgow.
- Khasanova, A., Cole, J., Hasegawa-Johnson, M. 2014. Detecting articulatory compensation in acoustic data through linear regression modeling. *Proceedings of Interspeech 2014*, Singapore.
- Cole, J., Mahrt, T., Hualde, J.I. 2014. Listening for sound, listening for meaning: Task effects on prosodic transcription. *Proceedings of Speech Prosody 7*, Dublin.
- Jyothi, P., Cole, J., Hasegawa-Johnson, M., Puri, V. 2014. An investigation of prosody in Hindi narrative speech. *Proceedings of Speech Prosody 7*, Dublin.
- Kimball, A., Cole, J. 2014. Avoidance of stress clash in perception of American English. *Proceedings of Speech Prosody 7*, Dublin.
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- Cole, J. and Hualde, J.I. 1998. The object of lexical acquisition: a UR-free model. In *Proceedings of the 34th Regional Meeting of the Chicago Linguistic Society*.
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- Cole, J. and Kisseberth, C. 1995. An Optimal Domains Theory of vowel harmony. *Studies in the Linguistic Sciences* 24: 101-114.
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- Cole, J. and Kuo, F. 1991. Phonological enhancement in the vowel assimilation of Fe?Fe? Bamileke. In *Proceedings of the 27th Regional Meeting of the Chicago Linguistic Society*, pp. 85-99. Univ. of Chicago.
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- Cole, J. 1990. Arguing for the phonological cycle: a critical review. In *Proceedings of the First Annual Meeting of the Linguistics Society of Mid-America*, pp. 101-114. Univ. of Wisconsin.
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Abstracts

- Cole, J., Shattuck-Hufnagel, S., Mo, Y. 2010. Prosody production in spontaneous speech: Phonological encoding, phonetic variability, and the prosodic signature of individual speakers. *The Journal of the Acoustical Society of America*, 128: 2429.
- Mo, Y., Cole, J., 2010. Perception of prosodic boundaries in spontaneous speech with and without silent pause. *The Journal of the Acoustical Society of America*, 127: 1956.
- Mo, Y., Cole, J., Hasegawa-Johnson, J. 2009. How do ordinary listeners perceive prosodic prominence? Syntagmatic vs. Paradigmatic comparison. *The Journal of the Acoustical Society of America*, 125: 2572.
- Cole, J., Goldstein, L., Katsika, A., Mo, Y., Nava, E., Tiede, M. 2008. Perceived prosody: Phonetic bases of prominence and boundaries. *The Journal of the Acoustical Society of America*, **124**, 2496.
- Yoon, T-J., Cole, J., Hasegawa-Johnson, M., Shih, C. 2005. Acoustic correlates of non-modal phonation in telephone speech. *The Journal of the Acoustical Society of America*, 117: 2621.

Book Review

- Cole, J. 1995. Review article on *English Phonology* by John T. Jensen, in *World Englishes* 14.3, pp. 396-400.

Conference Presentations and Colloquia (without proceedings)

- 2015, June. "Linking pitch prosody and affective behavior in mother-child interaction".
With D. Berry, N. McElwain, T. Mahrt, N. Bulkes, H. Emery. Satellite Workshop on Prosodic Development, Phonetics and Phonology in Europe, Cambridge, UK.
- 2015, May. "Inside the 'Black Box' of maternal sensitivity: Micro-developmental links between maternal speech prosody and child affect," with D. Berry, N. McElwain, T. Mahrt, N. Bulkes, H. Emery. Poster presented at the Association for Psychological Science.
- 2015, April. "Quantifying phonetic variation (or, why you'd rather be a vowel than a glide)," UIUC Linguistics Colloquium.
- 2014, Sept. "Early High and Prominence Perception," with J.I. Hualde, C. Eager, T. Mahrt. MidPhon, University of Wisconsin.
- 2014, July. "The perception of phrasal prominence in conversational speech" Poster presented with J.I. Hualde, T. Mahrt, C. Eager and S. Im at LabPhon 14, Tokyo.
- 2014, July. "The contribution of individual acoustic cues to the perception of focal prominence. Poster presented with T. Mahrt at Laboratory Phonology 14, Tokyo.
- 2012, July. "Competing effects of prominence and vowel shift in Chicago English" Poster presented with M. Blasingame and J.I. Hualde at LabPhon 13, Stuttgart, Germany.
- 2012, July. "Form and function in prosodic transcription." Advancing Prosodic Transcription for Spoken Language Science and Technology, Stuttgart, Germany.
- 2012, May. "Abstraction and Phonetic Detail in Prosody Perception," Illinois Speech Day, Toyota Technical Institute, Chicago.
- 2011, Sept. "Are listeners sensitive to the phonological form of prosody or its phonetic encoding?" Poster presented with Stefanie Shattuck-Hufnagel and Hansjörg Mixdorff at the 2nd Experimental and Theoretical Approaches to Prosody, McGill University, Montreal, Canada.
- 2011, Aug. "Perceiving phonology while hearing the speaker: Abstraction and adaptation in prosody perception" Japan Phonology Forum, Kyoto, Japan.
- 2011, July. "Modeling listener variability in prosody perception using transcription and imitation as indirect measures of linguistic processing," Workshop on Testing Models of Phonetics and Phonology, at the Linguistic Society of America Linguistic Institute, Boulder, Colorado.
- 2011, June. "*Commentary on Harvesting Speech Datasets for Linguistic Research on the Web*," Digging Into Data Challenge Conference, Washington, DC.
- 2011, May. "Optimal models of prosodic prominence," Illinois Speech Day, Toyota Technological Institute, Chicago, Illinois.
- 2011, Jan. "Speech error evidence on the role of the vowel in syllable structure," Poster presented with Erin Rusaw at the 85th Annual Meeting of the Linguistic Society of America, Pittsburgh.
- 2011, Jan. "Uniformity and variability among speakers in the acoustic encoding of prosody in spontaneous speech," Poster presented with Yoonsook Mo at the Very-Large Scale Phonetics Workshop, University of Pennsylvania.
- 2011, Jan. "Feature sets for the automatic detection of prosodic prominence," Poster presented with Tim Mahrt, Jui-Ting Huang, Yoonsook Mo, Mark Hasegawa-

- Johnson, and Margaret Fleck Mo at the Very-Large Scale Phonetics Workshop, University of Pennsylvania.
- 2010, Oct. "Second-order phonotactic constraints based on speaker voice are learnable," Poster presented with Karen Lichtman and Meryl Garrison at the Mid-Continental Workshop on Phonology, Northwestern University.
- 2010, July. "Evaluating markedness in the lexicon: Harmony and disharmony in English" Poster presented with A. Khasanova at LabPhon12, Albuquerque, New Mexico.
- 2010, May. "Prosody and reduction in spontaneous speech: A case study in American English," with Y. Mo. Presented at Illinois Speech Day, Toyota Technological Institute, Chicago, Illinois.
- 2010, April. "Perception of prosodic boundaries in spontaneous speech with and without silent pause," with Y. Mo. Poster presented at the 159th Meeting of the Acoustical Society of America, Baltimore, Maryland.
- 2010, March. "Early exposure vs. L1 interference: L2 acquisition with heritage speakers," with E. Saadah. Paper presented at the American Association of Applied Linguistics 2010 Conference, Atlanta, Georgia.
- 2010, Feb. "Prosodic variation as a phonetic precursor to diachronic vowel shift," with J. I. Hualde, Y. Mo, and H. Kim. Paper presented at the 28th West Coast Conference on Formal Linguistics, Los Angeles, California.
- 2010, Jan. "The production of Arabic vowels by English L2 learners and heritage speakers of Arabic," with E. Saadah. Paper presented at the 84th Annual Meeting of the Linguistic Society of American, Baltimore, Maryland.
- 2009, Oct. "Learning Constraints that oppose native phonotactics from brief experience," with E. Rusaw, Mid-Continental Workshop on Phonology 2009, Indiana Univ.
- 2009, April. "How do ordinary listeners perceive prosodic prominence? Syntagmatic vs. Paradigmatic comparison," with Y. Mo and M. Hasegawa-Johnson. Poster presented at the 157th Meeting of the Acoustical Society of America, Portland, Oregon.
- 2008, Nov. "Perceived prosody: Phonetic bases of prominence and boundaries," with .: L, Goldstein, A. Katsika, Y. Mo, E. Nava, and M. Tiede. Poster presented at the 156th Meeting of the Acoustical Society of America, Miami, Florida.
- 2008, Jan. "Prosody perception by naïve listeners," with Y. Mo and E-K. Lee. Poster presented at the 82nd Annual Meeting of the Linguistic Society of America, Chicago, IL.
- 2007, Oct. "Prosody perception by naïve listeners: Evidence from a large multi-transcriber reliability study," with Y. Mo and E-K. Lee, Mid-Continental Workshop on Phonology, Ohio State Univ.
- 2007, Oct. "Parsing Acoustic Variability as a Mechanism for Feature Abstraction," with B. McMurray, G. Linebaugh, and C. Munson. International Conference on Features: Phonological Primitives in the Brain, the Mouth and the Ear, Paris.
- 2007, Jan. "Automatic Detection of Turn-taking Cues in Spontaneous Speech," with K. Gorman, M. Fleck, and M. Hasegawa-Johnson, 81st Annual Meeting of the Linguistic Society of America, Anaheim, CA.
- 2007, Jan. "On the edge: Acoustic cues to layered prosodic domains," with T. Yoon and M. Hasegawa-Johnson, 81st Annual Meeting of the Linguistic Society of America, Anaheim, CA.

- 2007, Jan. "Complexity and perceptual factors in phonotactic learning," with H. Koo, 81st Annual Meeting of the Linguistic Society of America, Anaheim, CA.
- 2006, June. "Downstepped Pitch Accent in American English is Categorical and Predictable," with T. Yoon, LabPhon 10, Paris.
- 2006, May. "Additive Effects of Prosodic Boundary on English Accented Vowels," with E-K. Lee and H. Kim, Speech Prosody, Dresden.
- 2006, May. "Acoustic differentiation of L- and L-L% in Switchboard and Radio News speech," with H. Kim, T. Yoon and M. Hasegawa-Johnson, Speech Prosody, Dresden.
- 2006, April. "Acoustic Effects of Prosodic Boundary on Vowels in American English," with E-K. Lee, Chicago Linguistic Society, Chicago.
- 2006, Jan. "Acoustic effects of prosodic prominence on vowels in American English," with H. Kim and E-K. Lee, Linguistic Society of America, Albuquerque, NM.
- 2006, Jan. "Levels of Prosodic Phrasing: Acoustic evidence from read and spontaneous speech corpora." With T. Yoon and H. Kim, Linguistic Society of America, Albuquerque, NM.
- 2005, Oct. "Intonational Distinctiveness of African American English," with E. Thomas, E Britt and E. Cogshall, Conference on New Ways of Analyzing Variation 34, New York, NY.
- 2005, Sept. "Shifting patterns of Sindhi language use: Evidence of renewal or decline?" 25th South Asia Linguistic Analysis Roundtable, University of Illinois.
- 2005, Sept. "Prosodic parallelism as a cue to repetition disfluency," with M. Hasegawa-Johnson, C. Shih, H. Kim, E. Lee, H. Lu, Y. Mo, T. Yoon, Disfluency in Spontaneous Speech Workshop, Aix-en-Provence, France.
- 2005, Sept. "The stress foot as a unit of planned timing: Evidence from shortening in the prosodic phrase," with H. Kim, Interspeech, Lisbon, Portugal.
- 2005, May. "Acoustic correlates of non-modal phonation in telephone speech," with T.-J. Yoon, M. Hasegawa-Johnson, and C. Shih, 149th Meeting of the Acoustical Society of America, Vancouver.
- 2005, Jan. "Acoustic expansion of accented vowels in American English," with H. Kim. Linguistic Society of America, San Francisco.
- 2004, March. "The effect of accent on acoustic cues to stop voicing and place of articulation in radio news speech," with H. Kim, H. Choi, and M. Hasegawa-Johnson. Speech Prosody 2004, Nara, Japan.
- 2004, March. "Acoustic differentiation of ip and IP boundary levels: Comparison of L- and L-L% in the Switchboard Corpus," with S. Chavarría, T.-J. Yoon, and M. Hasegawa-Johnson, Speech Prosody 2004, Nara, Japan.
- 2003, July. "The effect of accent on the acoustic cues to stop voicing in Radio News Speech," with H. Choi, H. Kim, and M. Hasegawa-Johnson. Poster presented at the 15th International Conference on Phonetic Sciences, Barcelona.
- 2003, Mar. "Acoustic evidence for the effect of accent on CV coarticulation in Radio News speech," with H. Choi, and H. Kim. Texas Linguistic Society Conference on Coarticulation, University of Texas at Austin.
- 2003, Feb. "Bringing Prosody into Automatic Speech Recognition: Improving word recognition and advancing linguistic science," Language Processing Brown Bag, UIUC.

- 2002, Dec. "The case for including linguistic models of prosody in automatic speech recognition: The effect of accent on the acoustic cues to stop voicing in Radio News speech." Univ. of Illinois Linguistics Seminar.
- 2002, Oct. "Learning Sindhi Online: Teaching to a distributed student population" Poster, 2nd Heritage Language Conference, Washington DC.
- 2002, June. "Evidence for a production bias in vowel harmony" Poster, 8th Conference on Laboratory Phonology, Yale University.
- 2002, March. "Are languages designed to make speaking easier?" Poster, Univ. of Illinois Engineering and Beckman Institute Open Houses.
- 2001, Sept. "What's optimal about vowel harmony?" Univ. of Illinois Linguistics Seminar.
- 2001, March. "Speech Perception: The effect of adjacent vowel context on the perceptual salience of /b,d,g/ in English." Poster, Univ. of Illinois Engineering and Beckman Institute Open Houses.
- 2001, Feb. "What's the link between phonology and speech processing?" Language Processing Brown Bag, Beckman Institute, Univ. of Illinois.
- 2000, July. "Is Vowel Harmony Perceptually Motivated?" Poster presentation at the Seventh Conference on Laboratory Phonology, Nijmegen, Netherlands.
- 2000, Feb. "On the accented/unaccented distinction in Western Basque and the typology of Accentual Systems," with J.I. Hualde and R. Smiljanic. 26th Annual Meeting of the Berkeley Linguistics Society.
- 1999, Dec. "Speech processing research: evidence for the development of linguistic sound systems," Joint CNRS-UIUC Workshop in Cognitive Science and Cognitive Neuroscience, Institut des Sciences Cognitives, Lyon, France.
- 1999, Oct. "The accented/unaccented distinction in Western Basque," with J.I. Hualde and R. Smiljanic. Mid-Continental Workshop in Phonology, 5. Southern Illinois University.
- 1999, July. "Stress and syllable weight in Kashmiri," with M-J. Ahn. South Asian Languages Analysis Roundtable 20, University of Illinois.
- 1998, Nov. "Phonetic grounding and harmony typology." Univ. of Illinois Linguistics Seminar.
- 1998, Oct. "Harmony in an exemplar model of phonology." Mid-Continental Workshop on Phonology, 4. Univ. of Michigan.
- 1998, Sept. "Effects of prosodic and segmental context on /g/-Lenition in Spanish," with J.I. Hualde, and K. Iskarous. Fourth International Linguistics and Phonetics Conference, Columbus, Ohio.
- 1998, July. "Contrast and phonetic variation: factors governing the continuancy of /g/ in Spanish and Arabic," with J.I. Hualde and K. Iskarous. Poster presentation at the Sixth Conference on Laboratory Phonology, University of York.
- 1998, April. "The object of lexical acquisition: a UR-free model," with J.I. Hualde. Chicago Linguistic Society, 34.
- 1997, Nov. "Two views on phonological alternations," with J.I. Hualde. Mid-Continental Workshop in Phonology, 3.
- 1997, May. "Transitive inference in Optimality Theory," with D. Guest and G. Dell, 69th Annual Meeting of the Midwestern Psychological Association.

- 1997, Feb. "Is Spanish spirantization a unitary process? Some experimental evidence," with J.I. Hualde, *Linguistics Symposium on Romance Languages* 27.
- 1996, Nov. "Metrical structure and non-initiality in Sukuma tone," with E. Hsiao, *Mid-Continental Workshop in Phonology*, 2.
- 1996, Nov. "Testing the transitivity hypothesis in Optimality Theory," with G. Dell and D. Guest, *Mid-Continental Workshop in Phonology*, 2.
- 1996, Oct. "Deconstructing metaphony." Univ. of Illinois Linguistics Seminar.
- 1995, Oct. "Deletion and identity in Klamath reduplication." *Mid-Continental Workshop in Phonology*, 1.
- 1995, Sept. "Opaque rule interaction in Yawelmani phonology." Univ. of Illinois Linguistics Seminar.
- 1994, April. "The metrical basis of Klamath phonology." Univ. of Illinois Linguistics Seminar.
- 1992, April. "Metrical structure in Setswana tonology," with S. Mmusi. 13th African Linguistics Conference.
- 1991, Dec. "Accent in Arratia Basque," with J.I. Hualde, Univ. of Illinois Linguistics Seminar.
- 1991, Sept. "Declarative grammars for computing phonology," Speech Recognition Group, Motorola, Schaumburg, Illinois.
- 1991, May. "Alliteration in Sindhi poetry: implications for feature geometry," Twelfth Annual Meeting of the South Asian Linguistics Association.
- 1991, Jan. "Dominant affixes and cyclic accent deletion," Univ. of Illinois Linguistics Seminar.
- 1990, March. "The segmental cycle in phonological theory," Univ. of Illinois Linguistics Colloquium.
- 1988, Feb. "Towards a principled theory of vowel harmony: The Problem of Coeur d'Alene," Yale Linguistic Colloquium.
- 1987, March. "The morpheme tier hypothesis: evidence from harmony." West Coast Conference on Formal Linguistics VI, Univ. of Arizona.
- 1986, Dec. "Harmony within Linked Structures." Linguistic Society of America Annual Meeting, New York.

Outreach Activities

- 2009, June: Panelist, "Why you should care about Sindhi," *Young Sindhi Adult* eighth annual convention, Chicago, IL.
- 2005, Sept.: Panelist, "Language, Ideology and Terrorism: The Sindhi struggle in Pakistan," Conference held for US Congress members, sponsored by the World Sindhi Institute, Washington, D.C.
- 2004, May: "Language, Culture and Identity," presentation to the *Young Sindhi Adult* third annual convention, Washington, D.C.
- 2003, May: "What's special about the Sindhi language and why you should care," presentation to the *Young Sindhi Adult* second annual convention, Vancouver.