

Curriculum Vitae: Bruce P. Hayes

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(310) 825-0634 (Linguistics Dept.)

Education: Massachusetts Institute of Technology, 1976-1980, Ph.D., Linguistics
Harvard University, 1973-1976, B.A. *cum laude*, Linguistics and Applied Mathematics

Employment history: Distinguished Professor, Dept. of Linguistics, UCLA, 2012-
Chair, Dept. of Linguistics, UCLA, July 2013-December 2016
Professor, Dept. of Linguistics, UCLA, 1989-2012
Associate Professor, Dept. of Linguistics, UCLA, 1985-1989
Assistant Professor, Dept. of Linguistics, UCLA, 1981-1985
Lecturer, Dept. of Linguistics, Yale University, 1980-1981

UCLA courses taught:

Linguistics 1	“Introduction to Language”
Linguistics 20	“Introduction to Linguistics”
Linguistics 88B	“Linguistics and Verse Structure”
Linguistics 103	“Introduction to General Phonetics”
Linguistics 120A	“Phonology I”
Linguistics 191	“Metrics”
Linguistics 200A	“Phonological Theory I”
Linguistics 201A	“Phonological Theory II”
Linguistics 205	“Morphology”
Linguistics 210	“Field Methods” (with Paul Schachter)
Linguistics 219	“Phonological Theory III”
Linguistics 251	“The Phonology of Syllables and Stress”
Linguistics 251	“CV Phonology”
Linguistics 251	“The Metrical Theory of Stress”
Linguistics 251	“Lexical Phonology”
Linguistics 251	“Segment Structure”
Linguistics 251	“The Syntax-Phonology Interface”
Linguistics 251	“Phonetic Rules”
Linguistics 251	“Intonation”
Linguistics 251	“Metrics”
Linguistics 251	“Phonetically-Driven Optimality-Theoretic Phonology”
Linguistics 251	“Correspondence Constraints” (with Donca Steriade)

Linguistics 251 “Phonological Acquisition”
Linguistics 251 “Phonotactics” (with Colin Wilson)
Linguistics 251 “The Phonology of English”
Linguistics 251 “Vowel Harmony”
Linguistics 251 “Variation in phonology” (with Kie Zuraw)

Grants: National Science Foundation, “Principles of Metrical Stress Theory,” 1990-1991, \$19,216.
National Science Foundation, “An Automated Learner for Morphology and Phonology,” 2000-2003, \$103,419.
National Science Foundation (with Megha Sundara, PI) “Morphological acquisition in early infancy: Experimental and computational studies”, 2020-2024, \$450,000.

Honors: Endowed term chair: Theresa A. and Henry P. Biggs Centennial Term Chair in Linguistics, as of November 2019
Best Paper in *Language* Award (for Vol. 88, Hayes, Wilson, and Shisko 2012).
Fellow, Linguistic Society of America, 2008
Faculty/Staff Partnership Award, UCLA Staff Assembly, 2000
Department nominee, Distinguished Teaching Award, 1988, 1990, 1997
College Institute Fellowship, UCLA, 1983
National Science Foundation Graduate Fellowship, 1977-1980
Phi Beta Kappa, 1976

Professional service: Vice-Chair for Graduate Studies, UCLA Linguistics Department, 1998-2000, 2020-2021
Vice Chair for Undergraduate Studies, UCLA Linguistics Department, Fall 2019
Co-editor for short articles, *Linguistic Inquiry*, 1984-1985
Editorial board, *Linguistic Inquiry*, 1982-1983, 1985-1996
Editorial board, *Phonology*, 1984-1999
Associate Editor, *Phonology*, 2001-
Advisory Editorial Board, *Language Acquisition*, 2004-

Visiting Scholar, Max-Planck-Institut für Psycholinguistik, Nijmegen, Oct. 1986, Sept.-Oct. 1988
Visiting Scholar, Onderzoeksinstituut voor Taal en Spraak, Utrecht, Jan. 1996
Visiting Faculty, 1987 Linguistic Society of America Linguistic Institute, Stanford University
Visiting Faculty, 1991 Linguistic Society of America Linguistic Institute, University of California, Santa Cruz
Visiting Faculty, Dutch National Winter School in Linguistics, University of Utrecht, Jan. 7-11, 1996.
Visiting Faculty, Girona International Summer School in Linguistics, Girona, Spain, June-July 1996.

Visiting Faculty, 1997 Linguistic Society of America Linguistic Institute, Cornell University

Visiting Faculty, 2001 Linguistic Society of America Linguistic Institute, UC Santa Barbara

Visiting Faculty, 2003 Linguistic Society of America Linguistic Institute, Michigan State University

Visiting Faculty, 2013 Linguistic Society of America Linguistic Institute, University of Michigan

Minicourse: “Embedding Grammar in a Quantitative Framework: Case Studies from Phonology and Metrics.” Brown University, May 18-22, 2009.

External Review Committee for Dept. of Linguistics, University of North Carolina, Oct. 1993

Chair, External Review Committee for Dept. of Linguistics, University of Pennsylvania, Mar. 1997

External Review Committee for Dept. of Linguistics, University of California at Santa Cruz, February 2003

External Review Committee for Dept. of Linguistics, University of California at San Diego, November 2008

Commencement speaker, Program in Linguistics, Boston University, May 14, 2016.

Work in Progress

(submitted) Bruce Hayes and Jinyoung Jo. Balinese stem phonotactics and the subregularity hypothesis.

Submitted to *Linguistic Inquiry*.

[<https://linguistics.ucla.edu/people/hayes/papers/HayesJoBalineseStemsAndSubregularPhonology.pdf>]

Publications

[Web addresses indicate location of downloadable versions.]

(2020) Canaan Breiss and Bruce Hayes. Phonological markedness effects in sentence formation.

Language. 96: 338-370.

[https://linguistics.ucla.edu/people/hayes/papers/BreissHayes_PhonologicalMarkednessEffectsInSentenceFormation_2020.pdf]

(2019) Hayes, Bruce, and Russell Schuh. Metrical structure and sung rhythm of the Hausa Rajaz.

Language 95: e253-e299 (*Phonological Analysis*).

[<https://linguistics.ucla.edu/people/hayes/papers/HayesSchuhHausaRajaz2019.pdf>]

(2018) Hayes, Bruce. An obituary of Russell Schuh. *Brill's Journal of Afroasiatic Languages and Linguistics* 10:1-4.

[<https://linguistics.ucla.edu/people/hayes/papers/Hayes2018ObituaryOfRussellSchuh.pdf>]

- (2017) Zuraw, Kie, and Bruce Hayes. Intersecting constraint families: an argument for Harmonic Grammar. *Language* 93:497-548.
[<http://linguistics.ucla.edu/people/hayes/papers/ZurawHayes2016IntersectingConstraintFamilies.pdf>]
- (2017) Hayes, Bruce. Varieties of Noisy Harmonic Grammar. In Karen Jesney, Charlie O'Hara, Caitlin Smith and Rachel Walker (eds.), *Proceedings of the 2016 Annual Meeting on Phonology*. Washington, DC: Linguistic Society of America.
[<http://journals.linguisticsociety.org/proceedings/index.php/amphonology/article/view/3997>]
- (2016) Hayes, Bruce. Comparative phonotactics. *Proceedings of the 50th Meeting of the Chicago Linguistic Society*, pp. 265-285.
[https://linguistics.ucla.edu/people/hayes/papers/HayesComparativePhonotacticsCLS50_2014.pdf]
- (2016) McPherson, Laura and Bruce Hayes. Relating application frequency to morphological structure: the case of Tommo So vowel harmony. *Phonology* 33:125-167.
[<http://linguistics.ucla.edu/people/hayes/papers/McPhersonHayesTommoSoVowelHarmony2016.pdf>]
- (2015) Bruce Hayes and James White, Saltation and the P-map. *Phonology* 32: 267–302.
[linguistics.ucla.edu/people/hayes/Papers/HayesWhitePhonologicalNaturalnessAndPhonotacticLearning.pdf]
- (2013) Bruce Hayes and James White, Phonological naturalness and phonotactic learning. *Linguistic Inquiry* 44:45-75
[www.linguistics.ucla.edu/people/hayes/Papers/HayesWhitePhonologicalNaturalnessAndPhonotacticLearning.pdf]
- (2012) Bruce Hayes, Colin Wilson, and Anne Shisko. Maxent grammars for the metrics of Shakespeare and Milton. *Language* 88: 691-731.
[<http://www.linguistics.ucla.edu/people/hayes/ShakespeareAndMilton/>]
- (2011) Albright, Adam, and Bruce Hayes. Learning and learnability in phonology. In John Goldsmith, Jason Riggle, and Alan Yu, eds. *Handbook of Phonological Theory*. Blackwell/Wiley, pp. 661 -690. [<http://www.linguistics.ucla.edu/people/hayes/papers/AlbrightHayesLearningAndLearnabilityInPhonology.pdf>]
- (2011) Interpreting sonority-projection experiments: the role of phonotactic modeling. *Proceedings of the 2011 International Congress of Phonetic Sciences*, Hong Kong, pp. 835-838. [<http://www.linguistics.ucla.edu/people/hayes/papers/HayesInterpretingSonorityProjectionEffectsICPhS2011.pdf>]
- (2011) Bruce Hayes and Claire Moore-Cantwell. Gerard Manley Hopkins' sprung rhythm: corpus study and stochastic grammar. *Phonology* 28:235-282.
[<http://www.linguistics.ucla.edu/people/hayes/GMHopkins/>]
- (2011) Robert Daland, Bruce Hayes, James White, Marc Garellek, Andreas Davis, and Ingrid Normann. Explaining sonority projection effects. *Phonology* 28: 197–234.
[<http://www.linguistics.ucla.edu/people/hayes/papers/DalandHayesEtAl2011ExplainingSonorityProjection.pdf>]

- (2010) Review of Fabb and Halle, *Meter in Poetry*. *Lingua* 120:2515–2521.
[<http://www.linguistics.ucla.edu/people/hayes/papers/HayesReviewOfFabbAndHalleLingua2010.pdf>]
- (2009) Hayes, Bruce, Kie Zuraw, Péter Siptár, and Zsuzsa Londe. Natural and unnatural constraints in Hungarian vowel harmony. *Language* 85: 822-863.
[<http://www.linguistics.ucla.edu/people/hayes/HungarianVH/index.htm>]
- (2009) Textsetting as constraint conflict. In Aroui, Jean-Louis and Andy Arleo, eds. *Towards a Typology of Poetic Forms*. Amsterdam: John Benjamins, pp. 43-61.
[<http://www.linguistics.ucla.edu/people/hayes/papers/hayes2009Textsettingasconstraintconflict.pdf>]
- (2009) Faithfulness and componentiality in metrics. In Sharon Inkelas and Kristin Hanson, eds., *The Nature of the Word* MIT Press, Cambridge, MA, pp. 113-148.
[<http://www.linguistics.ucla.edu/people/hayes/faithfulnessinmetrics/>]
- (2009) *Introductory Phonology*. Malden, MA: Wiley-Blackwell.
- (2008) Hayes, Bruce and Colin Wilson. A maximum entropy model of phonotactics and phonotactic learning. *Linguistic Inquiry* 39: 379-440.
[<http://www.linguistics.ucla.edu/people/hayes/papers/HayesAndWilsonPhonotactics2008.pdf>]
- (2006) Hayes, Bruce and Zsuzsa Czirák Londe. Stochastic phonological knowledge: the case of Hungarian vowel harmony. *Phonology* 23: 59-104.
[<http://www.linguistics.ucla.edu/people/hayes/HungarianVH/>]
- (2006) Albright, Adam, and Bruce Hayes. Modeling productivity with the Gradual Learning Algorithm: the problem of accidentally exceptionless generalizations. In *Gradience in Grammar: Generative Perspectives*, ed. by Gisbert Fanselow, Caroline Fery, Ralf Vogel and Matthias Schlesewsky. Oxford: Oxford University Press, pp. 185-204.
[<http://www.linguistics.ucla.edu/people/hayes/papers/AlbrightHayes2006ModelingProductivity.pdf>]
- (2004) Hayes, Bruce, and Donca Steriade. Introduction: The phonetic basis of phonological markedness. In Hayes, Kirchner, and Steriade (2004), pp. 1-32.
[<http://www.linguistics.ucla.edu/people/hayes/PBP/IntroToPBP.pdf>]
- (2004) Hayes, Bruce, Robert Kirchner, and Donca Steriade, eds., *Phonetically-Based Phonology*. Cambridge: Cambridge University Press. Web page:
[<http://www.linguistics.ucla.edu/people/hayes/PBP/>]
- (2004) Phonological acquisition in Optimality Theory: the early stages. In René Kager, Joe Pater, and Wim Zonneveld, eds., *Fixing Priorities: Constraints in Phonological Acquisition*. Cambridge: Cambridge University Press, pp. 158-203.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes2004PhonologicalAcquisitionInOT.pdf>]
- (2003) Albright, Adam and Bruce Hayes. Rules vs. analogy in English past tenses: a computational/experimental study. *Cognition* 90: 119-161.
[<http://www.linguistics.ucla.edu/people/hayes/rulesvsanalogy/>]

- (2002) Albright, Adam and Bruce Hayes. Modeling English past tense intuitions with minimal generalization. In Mike Maxwell, ed., *Proceedings of the 2002 Workshop on Morphological Learning, Association of Computational Linguistics*. Philadelphia: Association for Computational Linguistics.
[<http://www.linguistics.ucla.edu/people/hayes/learning/AlbrightHayes2002.pdf>]
- (2002) The phonetics-phonology interface: comments on Clements & Osu, Solé, Frota, and Chitoran et al. In Carlos Gussenhoven and Natasha Warner, eds., *Laboratory Phonology 7*, Mouton de Gruyter, Berlin and New York, pp. 449-454.
[<http://www.linguistics.ucla.edu/people/hayes/papers/HayesLabPhon2000.pdf>]
- (2001) Albright, Adam, Argelia Andrade and Bruce Hayes. Segmental environments of Spanish diphthongization. *UCLA Working Papers in Linguistics 7 (Papers in Phonology 5)*, 117-151. [<http://www.linguistics.ucla.edu/people/hayes/Segenvspandiph/>]
- (2001) Paul Boersma and Bruce Hayes. Empirical tests of the Gradual Learning Algorithm. *Linguistic Inquiry* 32: 45-86. [<http://www.linguistics.ucla.edu/people/hayes/GLA/>]
- (2000) Gradient well-formedness in Optimality Theory. In Joost Dekkers, Frank van der Leeuw and Jeroen van de Weijer, eds., *Optimality Theory: Phonology, Syntax, and Acquisition*, Oxford University Press, pp. 88-120. [<http://www.linguistics.ucla.edu/people/hayes/gradient.htm>]
- (1999) Phonological restructuring in Yidiñ and its theoretical consequences. In Ben Hermans and Marc van Oostendorp, eds., *The Derivational Residue in Phonological Optimality Theory*, John Benjamins, Amsterdam, pp. 175-205.
[<http://www.linguistics.ucla.edu/people/hayes/yidiny.htm>]
- (1999) Phonetically-driven phonology: the role of optimality theory and inductive grounding. In Michael Darnell, Edith Moravcsik, Michael Noonan, Frederick Newmeyer, and Kathleen Wheatly, eds., *Functionalism and Formalism in Linguistics, Volume I: General Papers*, John Benjamins, Amsterdam, pp. 243-285.
[<http://www.linguistics.ucla.edu/people/hayes/phonet.htm>]
- Excerpts reprinted in John McCarthy, ed., *Optimality Theory in Phonology: A Book of Readings*. Oxford: Blackwell, pp. 290-309.
- (1998) Bruce Hayes and Margaret MacEachern. Quatrain form in English folk verse. *Language* 74, 473-507. [<http://www.linguistics.ucla.edu/people/hayes/metrics.htm>]
- (1996) Bruce Hayes and Margaret MacEachern. Are there lines in folk poetry? *UCLA Working Papers in Phonology* 1, 125-142. [<http://www.linguistics.ucla.edu/people/hayes/metrics.htm>]
- (1996) Bruce Hayes and Abigail Kaun. The role of phonological phrasing in sung and chanted verse. *The Linguistic Review* 13, 243-303.
[<http://www.linguistics.ucla.edu/people/hayes/metrics.htm>]

- (1995) *Metrical Stress Theory: Principles and Case Studies*, University of Chicago Press, Chicago, 15 + 455 pp.
- (1995) On what to teach the undergraduates: some changing orthodoxies in phonological theory. In Ik-Hwan Lee, ed., *Linguistics in the Morning Calm 3*, Hanshin, Seoul, pp. 59-77. [<http://www.linguistics.ucla.edu/linguistics/people/hayes/SECOL/>]
- (1995) Weight of CVC can be determined by context. In Jennifer Cole and Charles Kisseberth, eds., *Perspectives in Phonology*, Center for the Study of Language and Information, Stanford, CA, pp. 61-79. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1995WeightOfCVCCanBeDeterminedByContext.pdf>]
- (1994) ‘Gesture’ in prosody: comments on the paper by Ladd. In Patricia Keating, ed., *Papers in Laboratory Phonology III*, Cambridge University Press, Cambridge, pp. 64-75. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1994GestureInProsodyCommentsOnLadd.pdf>]
- (1993) Against movement: comments on Liddell’s article. In Geoffrey Coulter, ed., *Current Issues in ASL Phonology*, Academic Press, San Diego, CA, pp. 213-226. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1993AgainstMovement.pdf>]
- (1992) Comments on the paper by Nolan. In Gerard J. Docherty and D. Robert Ladd, eds., *Papers in Laboratory Phonology II: Gesture, Segment, Prosody*, Cambridge University Press, Cambridge, pp. 280-286. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1992CommentsOnNolan.pdf>]
- (1991) Bruce Hayes and Aditi Lahiri. Durationally-specified intonation in English and Bengali. In Johan Sundberg, Lennart Nord, and Rolf Carlson, eds., *Music, Language, Speech, and Brain*, Macmillan, London, pp. 78-91. [<http://www.linguistics.ucla.edu/people/hayes/papers/HayesLahiriDurationallySpecifiedIntonation1991.pdf>]
- (1991) Bruce Hayes and Aditi Lahiri. Bengali intonational phonology. *Natural Language and Linguistic Theory* 9, 47-96. [<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesLahiriBengaliIntonationalPhonology.pdf>]
- (1991) Metrical phonology. In William Bright, ed., *The Oxford Encyclopedia of Linguistics*, Oxford University Press, 2:424-427. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1991MetricalPhonologyOxfordEncyclopedia.pdf>]
- (1990) Diphthongization and coindexing. *Phonology* 7, 31-71. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1990DiphthongizationAndCoindexing.pdf>]
- (1990) Precompiled phrasal phonology. In Sharon Inkelas and Draga Zec, eds., *The Syntax-Phonology Connection*, Center for the Study of Language and Information, Stanford, CA, and University of Chicago Press, Chicago, pp. 85-108. [<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesPrecompiledPhrasalPhonology.pdf>]

- (1989) Compensatory lengthening in moraic phonology. *Linguistic Inquiry* 20, 253-306.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesCompensatoryLengthening1989.pdf>]
- Partially reprinted in John Goldsmith, ed., (1999) *Phonology: The Essential Readings*, Blackwell, Oxford, pp. 351-369.
- (1989) Bruce Hayes and May Abad. Reduplication and syllabification in Ilokano. *Lingua* 77, 331-374. [<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesAndAbad1989.pdf>]
- (1989) The prosodic hierarchy in meter. In Paul Kiparsky and Gilbert Youmans, eds., *Rhythm and Meter*, Academic Press, Orlando, FL, pp. 201-260.
[http://www.linguistics.ucla.edu/people/hayes/Papers/Hayes_Pro prosodicHierarchy.pdf]
- (1988) Metrics and phonological theory. In Frederick Newmeyer, ed., *Linguistics: The Cambridge Survey*, Cambridge University Press, Cambridge, 220-249.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1988MetricsAndPhonologicalTheory.pdf>]
- Reprinted in Italian translation (1988) *Metrica e teoria fonologica. Ritmica* 1, 9-27.
- (1988) Review of Leo Wetzels and Engin Sezer, *Studies in Compensatory Lengthening*, *Linguistics* 26, 167-173.
[<http://www.linguistics.ucla.edu/people/hayes/papers/hayes1988ReviewOfWetzelsAndSezer.pdf>]
- (1987) A revised parametric metrical theory. *Proceedings of the Northeastern Linguistics Society* 17, Graduate Linguistics Student Association, University of Massachusetts, Amherst, pp. 274-289.
[<http://www.linguistics.ucla.edu/people/hayes/papers/hayes1987RevisedParametricMetricalTheory.pdf>]
- (1986) Review of Heinz Giegerich, *Metrical Phonology and Phonological Structure: German and English*, *Journal of Linguistics* 22, 229-235.
[<http://www.linguistics.ucla.edu/people/hayes/papers/hayes1986ReviewOfGiegerich.pdf>]
- (1986) Inalterability in CV phonology. *Language* 62, 321-351.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/hayes1986inalterability.pdf>]
- Partially reprinted in John Goldsmith, ed., (1999) *Phonology: The Essential Readings*, Blackwell, Oxford, pp. 224-237.
- (1986) Assimilation as spreading in Toba Batak. *Linguistic Inquiry* 17, 467-499.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesAssimilationAsSpreadingInTobaBatak1986.pdf>]
]
- (1985) *A Metrical Theory of Stress Rules*, Garland Press, New York. [Revised version of 1980 MIT Doctoral dissertation.]

- (1985) Iambic and trochaic rhythm in stress rules. In M. Niepokuj et al., eds., *Proceedings of the Eleventh Annual Meeting of the Berkeley Linguistics Society*, 429-446.
[<http://www.linguistics.ucla.edu/people/hayes/papers/hayes1985IambicAndTrochaicRhythmInStressRules.pdf>]
- (1985) Hayes, Bruce and Stanislaw Puppel. On the rhythm rule in Polish. In Harry van der Hulst and Norval Smith, eds., *Advances in Nonlinear Phonology*, Foris Publications, Dordrecht, 59-81.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesPhonologyOfRhythmInEnglish1984.pdf>]
- (1984) The phonology of rhythm in English. *Linguistic Inquiry* 15, 33-74.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesPhonologyOfRhythmInEnglish1984.pdf>]
- (1984) The phonetics and phonology of Russian voicing assimilation. In Mark Aronoff and Richard T. Oehrle, eds., *Language Sound Structure*, MIT Press, Cambridge, Mass., 318-328. [<http://www.linguistics.ucla.edu/people/hayes/papers/HayesRussianVoicingAssimilation1984.pdf>]
- (1984) Review Article: D. Attridge, *The Rhythms of English Poetry*, *Language* 60, 914-923.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1984ReviewOfAttridge.pdf>]
- Reprinted (1994) in Carlos Otero (ed.) *Noam Chomsky: Critical Assessments*, Routledge, London.
- (1983) A grid-based theory of English meter. *Linguistic Inquiry* 14, 357-393.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesGridBasedTheoryOfMeter1983.pdf>]
- (1983) The role of metrical trees in rhythmic adjustment. *Proceedings of the Thirteenth Meeting of the North Eastern Linguistic Society*, University of Massachusetts Graduate Linguistics Student Association, Amherst. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1983RoleOfMetricalTreesInRhythmicAdjustment.pdf>]
- (1982) Extrametricality and English stress. *Linguistic Inquiry* 13, 227-276.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1982ExtrametricalityAndEnglishStress.pdf>]
- Partially reprinted in John Goldsmith, ed., (1989) *Phonology: The Essential Readings*, Blackwell, Oxford, pp. 415-425.
- (1982) Metrical structure as the organizing principle of Yidin^y phonology. In H. van der Hulst and N. Smith, eds., *The Structure of Phonological Representations, Part I*, Foris Publications, Dordrecht, The Netherlands.
[<http://www.linguistics.ucla.edu/people/hayes/papers/hayes1982yidinmetricalstructure.pdf>]
- (1981) *A Metrical Theory of Stress Rules*, revised version of 1980 MIT doctoral dissertation, distributed by Indiana University Linguistics Club, Bloomington, Indiana.
- (1980) Aklan stress: disjunctive ordering or metrical feet? *Cahiers linguistiques d'Ottawa* 9, *Papers from the Tenth Meeting of the North East Linguistic Society*, University of Ottawa. [<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1980AklanStress.pdf>]

- (1979) The rhythmic structure of Persian verse. *Edebiyat* 4, 193-242.
[<http://www.linguistics.ucla.edu/people/hayes/Papers/HayesRhythmicStrPersianVerse.pdf>]
- (1979) Extrametricality. In K. Safir, ed., MIT Working Papers in Linguistics, Vol. 1, 77 -87.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1979Extrametricality.pdf>]
- (1979) Ternary stress feet in English. In K. Safir, ed., MIT Working Papers in Linguistics, Vol. 1, pp. 88-94.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1979TernaryStressFeetInEnglish.pdf>]
- (1976) The semantic nature of the intervention constraint. *Linguistic Inquiry* 7, 371-376.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1976SemanticNatureOfTheInterventionConstraint.pdf>]
- (1976) Prepositional phrase extraposition. In J. Hankamer and J. Aissen, eds., *Harvard Studies in Syntax and Semantics*, Vol. 2, pp. 221 -241.
[<http://www.linguistics.ucla.edu/people/hayes/papers/Hayes1976PrepositionalPhraseExtraposition.pdf>]

Recent Conference Presentations

- Timothy Hunter, Canaan Breiss, and Bruce Hayes, “Incorporating phonological and syntactic factors into sentence probability distributions,” Annual Meeting in Phonology, Stony Brook, New York.
- “Allomorph discovery as a basis for learning alternations,” Society for Computation in Linguistics, Salt Lake City, January 2018.

Invited Lectures

- (with Canaan Breiss) “A guide to ‘Phonological markedness effects in sentence formation,’” Linguistic Society of America “Meet the Authors” series, June 2020. On line at <https://www.youtube.com/watch?v=18FAVmvplp4> .
- “Detecting valid grammatical architectures through their quantitative empirical signatures”, Berkeley Linguistic Society Workshop, February 2020.

- “Studying verbal art in linguistics: Meter and mimetic words in Dr. Seuss,” inaugural lecture, Theresa A. and Henry P. Biggs Centennial Term Chair in Linguistics, UCLA, Oct. 30, 2019.
- “Some remarks on MaxEnt grammars”, Workshop on Analyzing Typological Structure: From Categorical to Probabilistic Phonology, Stanford University, Sept. 22, 2018.
- “Learning allomorphs as a basis for morphophonemic learning”, Colloquium, Cornell University, March 27, 2018; International Conference on Phonology and Morphology, Seoul, June 26, 2018.
- “Phonological markedness effects in syntax: subtle but ubiquitous,” Cornell University, March 28, 2018; University of Arizona, Oct. 13, 2018.
- “Stochastic constraint-based grammars for Hausa verse and song,” colloquium, University of California, Merced, September 20, 2015; Washington University in St. Louis, March 3, 2017, Old World Conference in Phonology, Jan. 16, 2016; MIT colloquium, April 1, 2016; Seoul National University colloquium, Jun. 26, 2018.
- “Some remarks on linguistics, textsetting, and life,” commencement address, Boston University, May 16, 2016.
- “Learning-theoretic generative phonetics with maxent: a Hausa example,” International Congress on Phonetics and Phonology, Keio University, Tokyo, September 27, 2015.
- “Phonological acquisition is not always accurate’: extending the Kiparskyan research program,” plenary lecture, Linguistic Society of America, Portland, OR, January 8, 2015.
- “Comparative phonotactics”, University of Pisa, November 21, 2013; plenary talk, Chicago Linguistic Society, March 10, 2014.
- “Intersecting constraint families: An argument for Harmonic Grammar”, colloquium talk, Yale University, New Haven, CT, March 24, 2014.
- “Milton, Maxent, and the Russian Method,” M90 — Workshop on Stress and Meter (academic celebration for 90th birthday of Morris Halle). MIT, Cambridge, MA, September 21, 2013.
- “How do constraint families interact? A study of variation in Tagalog and Hungarian,” 9th Workshop on Altaic Formal Linguistics, Cornell University, Ithaca, N.Y., August 23, 2013
- “Saltation in phonology”, Harvard University (8th Whatmough Lecture), April 30, 2013; University of Washington, May 31, 2013. (work done with James White)
- “The role of computational modeling in the study of sound structure.” Conference on Laboratory Phonology, Stuttgart, Germany, July 27, 2012.

- “How predictable is Italian word stress?” National Chiao Tung University, Taiwan, May 11, 2012; University College London, June 7, 2012 (work done with Erica Cei).
- “Relating application frequency to morphological structure: the case of Tommo So vowel harmony.” Institute of Linguistics, Academia Sinica, Taipei, May 7, 2012 (work done with Laura McPherson).
- “Some comments on the study of stress, ” given at “50 years of Linguistics at MIT: A scientific reunion”, Cambridge, MA, Dec. 10, 2011.
- “Computational linguistics for studying language in people: principles, applications and research problems,” Fifteenth Conference on Computational Natural Language Learning, Portland Oregon, June 23, 2011.
- “The sonority projection effect: experimental and computational studies.” Colloquium, Department of Linguistics, University of California, Santa Cruz, April 1, 2011
- “Learning-theoretic linguistics: some examples from phonology”. Session in honor of James McClelland as Rumelhart Prize winner; Cognitive Science Society, Portland, OR, Aug. 13, 2010.
- “Maxent grammars for the metrics of Shakespeare and Milton,” SUNY Stony Brook, Sept. 18, 2009, Stanford Metrics Workshop, April 10, 2010 .
- “Accidentally-true constraints in phonotactic learning,” Workshop on Computational Modeling of Sound Pattern Acquisition, University of Alberta, Edmonton, Feb. 13, 2010; Johns Hopkins University, March 25, 2010; MIT, April 30, 2010; Cornell University May 16, 2010.
- “The textsetting problem: the interaction of the intersection of phonology, music cognition, and computation,” Swarthmore College, April 6, 2009; SUNY Stony Brook, Sept. 17, 2009.
- “Natural and unnatural constraints in Hungarian vowel harmony,” 18th International Congress of Linguists, Seoul, Korea, July 21, 2008; Cornell University, April 4, 2009.
- “Weighing conflicting constraints: A maxent approach to textsetting.” Conference: “Music, Language, and the Mind”, Tufts University, July 11, 2008.
- “Studying UG in phonology: the computational/experimental approach,” Linguistics Department Student Conference, University of Utah, April 10, 2008; Seoul National University, July 23, 2008.
- “New methods for studying UG in phonology,” North Eastern Linguistic Society (NELS) 38, University of Ottawa, October 27, 2007.

- “The analysis of gradience in phonology: what are the right tools?,” Workshop on Gradience, Stanford University, July 7, 2007.
- “Phonological theories: finding the right level of idealization,” Symposium, “Phonology: an appraisal of the field in 2007,” Linguistic Society of America, Anaheim, CA, January 5, 2007.
- “A generative model of phonotactics and phonotactic learning,” colloquium lecture, University of Michigan, October 14, 2005; University of California, San Diego, May 1, 2006.
- “‘These are a few of my favorite facts’: Advances in phonology from new data sources” Manchester Phonology Conference, May 26-28, 2005.
- “Stochastic phonological knowledge: general constraints, gradient ranking”, West Coast Conference on Formal Linguistics, Vancouver, March 18, 2005; Stanford University, April 22, 2005; University College London, May 24, 2005.
- “The textsetting problem: an approach with stochastic Optimality Theory,” Colloque international “Typologie des formes poétiques”, C.N.R.S. & Université Paris VIII, April 8, 2005.; Stanford University, April 21, 2005.
- “Stochastic phonological knowledge: the case of Hungarian vowel harmony,” IGERT Workshop, Johns Hopkins University, Jan. 23, 2004; Berkeley Linguistic Society, Feb. 15, 2004; Department of Linguistics, MIT, Feb. 6, 2004; UC Santa Barbara, April 1, 2004; New York University, April 23, 2004
- “Some inductive methods for phonological learning,” Department of Linguistics, University of Massachusetts, Amherst, April 11, 2003.
- “Modeling productivity with the Gradual Learning Algorithm: The Problem of Accidentally-Exceptionless Generalizations,” Potsdam Conference on Gradedness, Potsdam, Germany, Oct. 21, 2002
- (with Adam Albright) “Modeling English past tense intuitions with Minimal Generalization,” Workshop on Morphological Learning, Association of Computational Linguistics, Philadelphia, July 11, 2002.
- “Faithfulness and componentiality in metrics,” Southwest Conference on Optimality Theory/Texas Linguistic Forum, University of Texas, March 1, 2002.
- “Rules vs. analogy in English past tenses: a computational/experimental study,” Western Conference on Linguistics, October 27, 2001; Department of Linguistics, University of California, Irvine, May 17, 2002.

- “A phonologist’s view of the past tense controversy,” Johns Hopkins University, October 24, 2000.
- “Modeling early phonological acquisition in Optimality Theory: review and afterthoughts,” Johns Hopkins University, October 24, 2000.
- “The phonetics/phonology interface: a brief orientation,” Seventh Conference on Laboratory Phonology, University of Nijmegen/Max-Planck Institute, Nijmegen, July 1, 2000.
- “Acquiring contrast: the early stages,” Workshop on Contrastiveness in Synchronic and Diachronic Phonology, UC Berkeley, Dec. 5, 1999.
- “Light and dark /l/ in English: morphological influences and gradient well-formedness,” Ibaraki Christian University, Ibaraki, Japan, July 18, 1999.
- “A ranking algorithm for free variation,” Ohio State University, January 1999; Tsukuba University, Tsukuba, Japan, July 22, 1999.
- “Phonological acquisition in optimality theory: the earliest stages,” Southwest Conference on Optimality Theory, UC San Diego, May 15, 1999; Osaka Tokyo Gakuen University, Osaka, July 21, 1999.
- “Burnt and ‘splang’: some issues in morphological learning theory,” Phonology 2000 Symposium, Harvard/MIT, May 1, 1999; University of Rochester, May 3, 1999; Cornell University, May 4, 1999; Keio University, Tokyo, July 21, 1999.
- “Should phonological theory recapitulate the course of acquisition?” Utrecht Phonology Workshop, June 12, 1998
- “Some research strategies for feature theory,” Fourth Annual Mini-Symposium on Phonetics and Phonology, UC Berkeley, April 5, 1998
- “An automated learner for phonology and morphology (and why it might be worth constructing),” Germanic Linguistics Roundtable, UC Berkeley, Apr. 4-5, 1998; University of Utrecht, June 19, 1998.
- “On the richness of paradigms, and the insufficiency of underlying representations in accounting for them,” Stanford University, Apr. 2, 1998; Sensyu University, Tokyo, July 21, 1999.
- “Some reasons to regard features as classificatory,” Workshop on Features, Linguistic Society of America Summer Institute, Cornell University, Ithaca, N.Y., August 2, 1997

- “An Optimality-Theoretic Account of Gradient Well-Formedness,” Southwest Workshop on Optimality Theory, May 10, 1996; Dept. of Linguistics, University of Oregon, Eugene, Apr. 1997.
- “Can Optimality Theory Serve as the Basis for a Functionally-Driven Phonology?,” Conference on Formalism and Functionalism in Linguistics, University of Wisconsin, Milwaukee, Apr. 19, 1996.
- “The Creation of Phonological Structural Descriptions from Phonetic Patterns,” University of Utrecht, Jan. 19, 1996; University of California, Santa Cruz, March 8, 1996; Cornell University, Apr. 11, 1996.
- “A Phonetically-Driven, Optimality-Theoretic Account of Post-Nasal Voicing,” Massachusetts Institute of Technology, Apr. 28, 1995, University of Arizona, Sept. 15, 1995; Tilburg Conference on the Derivational Residue in Phonology, Oct. 7, 1995.
- “Folk Verse Form in English,” Dept. of Linguistics, Stanford University, Apr. 28, 1994; Dept. of Linguistics, University of California, Irvine, Nov. 18, 1994; University of Arizona, Sept. 14, 1995; University of Utrecht, Jan. 15, 1996; Cornell University, Apr. 12, 1996.
- “Metrics as an Optimization Problem: The Case of English Folk Songs,” Rutgers Optimality Workshop, Oct. 24, 1993; Dept. of Linguistics, Universität Konstanz, Apr. 11, 1994; Center for Advanced Study in the Behavioral Sciences, Palo Alto, Apr. 28, 1994; Dept. of Linguistics, Stanford University, Apr. 29, 1994; UC Santa Barbara, May 1994, UC San Diego
- “Some Applications of Optimization to Stress,” European Science Foundation Prosody Workshop, April 19, 1993, and University of Utrecht, April 21, 1993.
- “Some Changing Orthodoxies in Phonological Theory,” Seoul International Conference on Linguistics, Aug. 7, 1992
- “Iambic and Trochaic Rhythm in Stress Rules,” Seoul International Conference on Linguistics, Aug. 3, 1992
- “An Analogical Dilemma in Lenakel Stress,” Seoul International Conference on Linguistics, Aug. 4, 1992
- “Optimization in Yidin^y Foot Construction,” Seoul International Conference on Linguistics, Aug. 4, 1992
- “Weight of CVC May Vary by Context,” University of Illinois conference “The Organization of Phonology”, May 1991; University of Southern California, May 1991, and Seoul International Conference on Linguistics, Aug. 3, 1992 .

- “Durationally-Specified Intonation in English and Bengali,” Wenner-Gren Conference on Music, Language and Brain, Stockholm, Sept. 5, 1990
- “On Deriving the Strong Domain Condition in Metrical Stress Theory,” MIT, March 19, 1990.
- “Against Movement: Comments on the Paper by Liddell,” American Sign Language Phonology Workshop, Tucson, AZ, July 1989.
- “Bengali Intonational Phonology,” University of Washington, Feb. 17, 1989, McGill University, March 1989, Cornell University, Sept. 11, 1990.
- “On Ternary Stress Alternation in Metrical Theory,” Dutch Phonology Workshop, Leiden, Sept. 1988, Cornell University, Sept. 12, 1990.
- “Precompiled Phrasal Phonology,” Workshop on the Syntax/Phonology Connection, Center for the Study of Language and Information, Stanford, CA, May 22, 1988; Max-Planck-Institut für Psycholinguistik, Nijmegen, Netherlands, Sept. 13, 1988.
- “Diphthongization and Coindexing,” University of Massachusetts, Amherst, May 6, 1988; University of California, Santa Cruz, May 20, 1988; Stanford University, Sept. 1, 1988; University of Tilburg, The Netherlands, Oct. 26, 1988; Université du Québec à Montréal, March 1989.
- “Compensatory Lengthening in Moraic Phonology,” Ohio State University, June 6, 1987; invited paper at Minnesota Conference on Language and Linguistics, October 17, 1987; University of North Carolina, November 1987.
- “A Revised Parametric Metrical Theory,” University of Arizona, Oct. 13, 1986; Ohio State University, Oct. 27, 1986.
- “Assimilation as Spreading in Toba Batak,” University of Southern California, March 27, 1985; Colloque ‘phonologie pluri-linéaire,’ University of Lyons, France, June 17, 1985, and Stanford University, Jan. 28, 1986.
- “Iambic and Trochaic Rhythm in Stress Rules,” invited paper at the Eleventh Meeting of the Berkeley Linguistics Society, University of California, Berkeley, Feb. 1985.
- “The Prosodic Hierarchy in Meter,” presented at the Zentrum für Interdisziplinäre Forschung, University of Bielefeld, West Germany, Dec. 15, 1983; at the Stanford Conference on Metrics, Mar. 13, 1984; and at the University of Texas, Austin, Nov. 9, 1984.
- “An Argument for Constituent Structure in Metrical Theory,” Workshop on Nonlinear Phonology, University of Amsterdam, Aug. 8, 1983.

- “On How to Achieve Eurhythm,” Alfred P. Sloan Foundation Conference on Hierarchy and Constituency in Phonology, University of Massachusetts, Amherst, Mass., Apr. 30, 1983.
- “The Phonology of Rhythm in English,” University of Washington, Seattle, Apr. 7, 1983; University of California, San Diego, May 14, 1983; University of Amsterdam, Aug. 12, 1983.
- “The Phonetics and Phonology of Russian Voicing Assimilation,” University of California, Irvine, December 1981; University of Arizona, Tucson, February 1982.
- “A Grid-Based Theory of English Meter,” UCLA/USC Symposium on the Treatment of Nonsegmental Properties in Phonology, Lake Arrowhead, Calif., May 1981.

Ph.D. Students Advised

- Zymet, Jesse. 2018. *Lexical propensities in phonology: Corpus and experimental evidence, grammar, and learning.* (Co-chair with Kie Zuraw). Lecturer, Department of Linguistics, University of California, Berkeley.
- Lefkowitz, Michael. 2017. *Maxent harmonic grammars and phonetic duration.* Member of Technical Staff, Apprente, Inc.
- Bowers, Dustin, Ph.D. 2015. *A system for morphophonological learning and its consequences for language change.* (Co-chair with Kie Zuraw). Visiting scholar, University of Arizona.
- Tanaka, Yu, Ph.D. 2016. *The sound pattern of Japanese surnames.* (Co-chair with Kie Zuraw). Assistant Professor, Doshisha University, Kyoto, Japan.
- McPherson, Laura E., Ph.D. 2014. *Replacive grammatical tone in the Dogon languages.* (co-chair with Russell Schuh). Assistant Professor, Dartmouth College
- James White, Ph.D. 2013. *Bias in phonological learning: Evidence from saltation.* (co-chair with Megha Sundara). Assistant Professor, University College London.
- Kevin Ryan, Ph.D. 2011. *Gradient syllable weight.* (co-chair with Kie Zuraw). Associate Professor and Chair, Department of Linguistics, Harvard University.
- Victoria Thatte, Ph.D. 2011. *Infant phonotactic learning.* (co-chair with Megha Sundara). Lecturer, English as a Second Language, Santa Monica College.
- Ingvar Lofstedt, Ph.D. 2010. *Phonetic effects in Swedish phonology: allomorphy and paradigms.* (co-chair with Kie Zuraw). High school teacher, Sweden.
- Roy Becker, Ph.D. 2010. *Acoustic typology of vowel inventories and Dispersion Theory: Insights from a large cross-linguistic corpus.* (co-chair with Megha Sundara). Staff researcher, DigiSpeech, Herzliya, Israel.
- Shabnam Shademan, Ph.D. 2007. *Grammar and analogy in phonotactic well-formedness judgments.* (co-chair with Susan Curtiss). Data Specialist, Factual Inc., Los Angeles, CA.
- Heidi Fleischhacker MacBride, Ph.D. 2005. *Similarity in Phonology: Evidence from Reduplication and Loan Adaptation* (co-chair with Donca Steriade). Data Engineer, Factual Inc., Los Angeles, CA.

- Alexander MacBride, Ph.D. 2003. *A Constraint-Based Approach to Morphology* (co-chair with Donca Steriade), Google Inc., New York City.
- Adam Albright, M.A. 1998, Ph.D. 2002. *The Identification of Bases in Morphological Paradigms* (co-chair with Donca Steriade). Associate Professor with tenure, Department of Linguistics, Massachusetts Institute of Technology.
- Marco Baroni, M.A. 1997, Ph.D. 2000. *Distributional Cues in Morpheme Discovery: A Computational Model and Empirical Evidence*. Researcher (tenured position), Scuola Superiore di Lingue Moderne per Interpreti e Traduttori (SSLMIT), Università di Bologna (Sede di Forlì), Italy.
- Kie Zuraw, M.A. 1997, Ph.D. 2000. *Patterned Exceptions in Phonology*. Professor, Department of Linguistics, UCLA (co-chair with Prof. Donca Steriade)
- Katherine Crosswhite, M.A. 1996, Ph.D. 1999. *Vowel Reduction in Optimality Theory*. Formerly Assistant Professor, Department of Linguistics, Rice University.
- Matthew Gordon, M.A. 1996, Ph.D. 1999. *Syllable Weight: Phonetics, Phonology and Typology*. Professor, Department of Linguistics, University of California, Santa Barbara.
- Henry Biggs, M.A. 1992, Ph.D. 1996. *A Statistical Analysis of the Metrics of the Classic French Decasyllable and the Classic French Alexandrine*. Associate Dean, Washington University, St. Louis, MO.
- Abigail Kaun, Ph.D. 1995. *The Typology of Rounding Harmony: An Optimality Theoretic Approach*. Special Assistant to the Dean, Baskin School of Engineering, University of California, Santa Cruz.
- Hiroyuki Nagahara, Ph.D. 1994. *Phonological Phrasing in Japanese*. Formerly Assistant Professor, Dept. of East Asian Languages, University of Hawaii.
- John D. Choi, Ph.D. 1993. *Phonetic Underspecification and Target-Interpolation: An Acoustic Study of Marshallese Vowel Allophony*. Late Member of Technical Staff, AT&T Bell Laboratories, Murray Hill, N.J. (co-chair with Prof. Patricia Keating).
- Lukowa Kidima, Ph.D. 1991. *Tone and Accent in KiYaka*. Late Instructor, English as a Second Language, Glendale Community College; cataloger, University Research Library, UCLA.
- Brian D. McHugh, Ph.D. 1990. *Cyclicity in the Phrasal Phonology of Kivunjo Chaga*. Associate Professor, Department of English, Temple University.
- Abigail C. Cohn, Ph.D. 1990. *Phonetic and Phonological Rules of Nasalization*. Professor and former Chair, Department of Linguistics, Cornell University (co-chair with Prof. Patricia Keating).
- Lee S. Bickmore, Ph.D. 1989. *Kinyambo Prosody*. Professor, Dept. of Anthropology, State University of New York, Albany.
- Michael T. Hammond, Ph.D. 1984. *Constraining Metrical Theory: A Modular Theory of Rhythm and Destressing*. Professor and former Chair, Department of Linguistics, University of Arizona, Tucson.
- Tracy Thomas-Flinders, Ph.D. 1983. *Morphological Structures*.