

Name **Michael Hammond**, Professor of Linguistics

Affiliations Cognitive Science
Second Language Acquisition and Teaching
School of Mind, Brain, and Behavior
Data Science Institute

Memberships Linguistic Society of America
Association for Computational Linguistics

Education

UCLA, 1984 Ph.D., Linguistics, thesis title: *Constraining Metrical Theory: A Modular Theory of Rhythm and Destressing*

MIT, 1982-1983 Visiting Scholar

UCLA, 1982 C.Phil., Linguistics

UCLA, 1981 M.A., Linguistics, thesis title: *Some Vogul Morphology: A Hierarchical Account of Multiple Exponence*

UCLA, 1979 B.A., *summa cum laude* in Linguistics

Selected Honors & Grants

- Documentation and comparative grammatical analysis of aspects of five Iranian languages, NSF (PI: Simin Karimi, co-PIs: Michael Hammond, Heidi B. Harley, Spring 2019)
- Doctoral Dissertation Research: Perception and production of Welsh-Spanish bilingual vowel contrasts (Elise Bell, Spring 2017)
- SBE-RCUK: Experimental and Descriptive Investigations of Welsh (cym) Consonant Mutation, NSF (PI; co-PIs: D. Archangeli, H. Brooks, A. Carnie, D. Ohala, A. Ussishkin, P. Webb-Davies, A. Wedel, Fall 2015).
- Collaborative research: creating an audio-visual corpus of Scottish Gàidhlig to preserve and investigate linguistic diversity, NSF (PIs: A. Carnie, I. Clayton; co-PIs: myself and M. Fisher, Spring 2015)
- GPSC Outstanding Mentor of Graduate/Professional Students, 2014.

- Faculty Research Development International Travel Grant (Spring 14).
- Morphological Investigations of Scottish Gaelic, NSF (with D. Archangeli, A. Carnie, A. Ussishkin, and N. Warner, Spring 12).
- Faculty Research Development International Travel Grant (Spring 11).
- Experimental Analysis of Scottish Gaelic Sound Structures, NSF (with D. Archangeli, A. Carnie, and N. Warner; Fall 09).
- University of Arizona PSSHM Planning Grant, Ford Foundation (with S. Dooley-Collberg, S. Fong, D.T. Langendoen, and N. Warner; Spring 04).
- UA Proposition 301 Grant “Professional MS Program in Human Language Technology” (with T. Langendoen, N. Warner, S. Dooley-Collberg, S. Fong, and A. Carnie; Fall 03).
- SBSRI Minigrant “Metaranking”, Spring 03 (with A. Baker, S. Bischoff, L. Butler, E. Good, E. Kidder, N. Ogasawara, D. Siddiqi, and B. Tucker)
- UA Proposition 301 Grant “Enhancement of teaching and research in computational linguistics” (with T. Langendoen, N. Warner, and S. Dooley-Collberg; Spring 02).
- New Learning Environments and Instructional Technologies Grant (with H. Harley, M. Willie, and O. Zepeda; Spring 01)
- SBSRI, small grant, “Creating an electronic dictionary for Lheidli” (Spring 01).
- Sun Microsystems Academic Equipment Grant (with M. Willie and O. Zepeda; Spring 00)
- New Learning Environments and Instructional Technologies Grant (with M. Willie and O. Zepeda; Spring 00)
- NSF Conference Proposal (with A. Barss; Spring 99)
- New Learning Environments and Instructional Technologies Grant (with M. Willie and O. Zepeda; Spring 99)
- SBSRI Intellectual Communities Grant (with N. Mendoza-Denton and K. Green; Fall 98)
- New Learning Environments and Instructional Technologies Grant (with M. Willie and O. Zepeda; Spring 98)
- SBSRI Research Professorship (Fall 96, Fall 90)
- NIH Fogarty Senior International Fellowship (92-94)
- High-Level Grant, French Scientific Mission (Fall 92)
- SBSRI Minigrant (Spring 92)
- SBSRI Small Grant Competition (Spring 91)

- UA Innovative Minority Graduate Student Retention Grant (with D. Archangeli, O. Zepeda, and E. Jelinek; Spring 91)
- UA Innovative Minority Graduate Student Retention Grant (with O. Zepeda and E. Jelinek; Spring 90)
- SBS Grant Proposal Competition (Spring 90)
- SBSRI Minigrant Competition (Spring 90)
- UW Undergraduate Teaching Improvement Grant (87-88)
- UWM Research Incentive Program Grant (Fall 86)
- UWM Graduate School Research Grant (86-87)
- Japan Foundation Scholarship (Summer 80)
- UCLA Regent's Fellowship (79-83)
- B.A. Phi Beta Kappa and summa cum laude (79)

Professional Experience

- Professor, Department of Linguistics, University of Arizona, Fall of 1999 to present
- Head, Department of Linguistics, University of Arizona, Fall of 2001 to Summer of 2011
- Associate Professor, Department of Linguistics, University of Arizona, Fall of 1992 to 1999
- Assistant Professor, Department of Linguistics, University of Arizona, Fall of 1988 to Spring of 1992
- Assistant Professor, Department of Linguistics, University of Wisconsin–Milwaukee, Fall of 1984 to Spring of 1988
- Assistant Professor, Department of Linguistics, University of Minnesota, Fall of 1983 to Summer of 1984
- Teaching Assistant, Department of Linguistics, University of California-Los Angeles, Fall of 1980 to Summer of 1982

Courses taught:

Language, Introduction to Language, Introduction to Linguistics, Mathematics of Language and Linguistics, Linguistic Analysis, English Word Structure, Phonetics, Applied Phonetics, Phonology, Applied Phonology, Advanced Phonology, Formal Foundations of Linguistic Theory, Linguistics and Literary Theory, Historical Linguistics, Production and Perception of Prosodic Con-

stituency, Computational Techniques for Linguists, Speech Technology, Human Language Technology I, Human Language Technology II, Statistical Natural Language Processing

Seminars on: Accent and Extrametricality, Metrical Constituency, Stress and Learnability, Syllabification, An Experimental Approach to the Syllable (with D. Ohala), External Evidence in Phonology, English Phonology, Poetic Meter, Computational Phonology, Probability & Grammar, Statistical Natural Language Processing, Stress in Weird Places, Practical Corpus Linguistics for Phonology and Morphology, Neural nets for phonology and morphology, Neural approaches to speech technology, Practical phonology and morphology.

Dissertations directed:

- AlShakhori, Mohammed (2025) *Contrastive Hyperarticulation in Arabic Geminate and Singleton Stops: How Lexical Competition and Morphology Shape Closure Duration in Behavioral and Neural Speech Systems*
- Pescaru, George-Michael (2025) *Ideal Theory*
- Alexeeva (Zupon), Masha (2024) *Automatic Extraction and Application of Population Subjective Views* (co-directed with Mihai Surdeanu)
- Issa, Sayed (2023) *ArabiPro and ArabiBot: Arabic Language Learning with Automatic Speech Recognition and Conversational AI* (MENAS; co-directed with Samira Farwaneh)
- Lubera, Amber (2023) *Improving Language Learning Outcomes through Linguistic Training*
- Culnan, John (2021) *Acoustic Analysis and Automatic Classification of Personality and Individual Expression from Speech* (co-directed with Natasha Warner)
- Bajorek, Joan (2019) *Speaking of Language Technology* (SLAT)
- Mahdavi, Mohsen (2019) *The Rhythmic Structure of Persian Poetic Meters* (co-directed with Simin Karimi)
- Yuan-Lu Chen (2018) *Improving Neural Net Machine Translation Systems with Linguistic Information*
- Elise Bell (2018) *Perception and production of Welsh vowels by Welsh-Spanish bilinguals*
- Nick Kloehn (2018) *Computational Explorations in Morphology*
- Sam Johnston (2017) *An Approach to Automatic Human Speech Recognition Using Ear-Recorded Speech*
- Becky Sharp (2017) *Computational Natural Language Inference: Robust and Interpretable Question Answering* (co-directed with Mihai Surdeanu)

- Lionel Mathieu (2014) *The Influence of Unfamiliar Orthography on L2 Phonolexical Acquisition*
- Susan Lorenson (2014) *Phonemic Awareness and Reading Ability in Literate Adults*
- Emily Kidder (2013) *Prominence in Yucatec Maya: The role of stress in Yucatec Maya words*
- Mans Hulden (2009) *Finite-State Machine Construction Methods and Algorithms for Phonology and Morphology*
- Adam Baker (2008) *Biomechanical Model of the Human Tongue for Understanding Speech Production and Other Lingual Behaviors*
- Jordan Brewer (2007) *Phonetic Reflexes of Orthographic Characteristics in Lexical Representation* (co-directed with Heidi Harley)
- Gwanhi Yun (2006) *The Interaction between Palatalization and Coarticulation in Korean and English* (co-directed with Diana Archangeli)
- Deborah Cole (2004) *Performing Unity in Diversity in Indonesian Poetry: Voice, Ideology, Grammar, and Change* (co-directed with Jane Hill)
- Rachel Hayes (2003) *How are Second Language Phoneme Contrasts Learned?* (co-directed with Natasha Warner)
- Sonya Bird (2002) *The Phonetics and Phonology of Lheidli Intervocalic consonants* (co-directed with Natasha Warner)
- Mizuki Miyashita (2002) *Tohono O'odham Syllable Weight: Descriptive, Theoretical, and Applied Aspects*
- Tania Zamuner (2001) *Input-Based Phonological Acquisition* (co-directed with LouAnn Gerken)
- Amy Fountain (1997) *An OT Account of Navaho Prefixal Syllables*
- Patricia Pérez (1997) *P-centers in English Disyllables*
- Diane Meador (1996) *The Minimal Word Hypothesis: A Speech Segmentation Strategy*
- Lee Fulmer (1996) *Parallelism and Planes in Optimality Theory: Evidence from Afar*
- Colleen Fitzgerald (1996) *O'odham Rhythms*
- Jane Tsay (1994) *Phonological Pitch*
- Jean Ann (1993) *Handshape in ASL and TSL*
- Jorge Lemus (1992) *A Two-Level Theory of the Lexicon*
- Larry Hagberg (1992) *An Autosegmental Theory of Stress*
- James Myers (1992) *A Processing Theory of Rule Application*

Selected Service

- Computational Social Science Certificate Program Advisory Board, 18-
- SLAT executive committee 15-21, 23-
- SBS Promotion & Tenure Committee, 14-16
- Taleghani endowment committee, 10-, head of committee 10-11 and 15-16
- SLATSA student association faculty representative, 17-18
- SBS Scholarship Committee, 10-13
- “Barring teachers with ‘accents’ from teaching English is misguided”, with Tom Bever and Amy Fountain, Arizona Daily Star Op-ed, July 13, 2010.
- SBS IT Advisory Committee, 06-14
- COH Promotion & Tenure Committee, 12-13
- SBS Graduate Council, Chair, 10-11
- UA Heads Up Steering Committee, 02-11
- LSA Nominating Committee, 07-10
- Member, UA department heads representative group, 08-10
- CLAHS IT Advisory Committee, 08-10
- LSA Committee on Computing, 00-03, Committee chair, 02-03
- SBS Promotion & Tenure Committee, 00-01
- Anthropology-Linguistics Joint PhD Program Co-Chair, 98-99, 00-01
- SBS Information and Technology Advisory Committee, 98-99
- WCCFL committee, 98-99
- LSA Program Committee, 95-97
- SBS Curriculum Committee, 94-99
- Department Honors Advisor, 91-01
- Instruction and Curriculum Policy Committee, 93-94
- Faculty Senate Member, 92-94
- Undergraduate Advisor, 91-95
- GAT Coordinator, 89-91, 95-99, 00-01

- Honors/Collegial Dialogs, 89-96
- Graduate Admissions Committee, 88-89, 00-01
- Departmental Advertising Coordinator, 88-89
- Phonology Conference Co-coordinator, 88-90

Publications

- (2025) *Foundational approaches to Celtic Linguistics*, Language Science Press, Berlin. (edited by A. Carnie, D. Ohala, D. Hunter, M. Hammond, and L. Irizarry)
- (2025) “Phonology of the Celtic languages”, in *Foundational approaches to Celtic Linguistics*, 211–246.
- (2024) “The role of morphosyntactic similarity in generating related sentences”, in *Proceedings of the 4th Workshop on Natural Language Processing for Indigenous Languages of the Americas (AmericasNLP 2024)*, 221–223.
- (2024) “PyFoma: a Python finite-state compiler module”, in *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 3: System Demonstrations)*, 258–265. (M. Hulden, M. Ginn, M. Silfverberg, and M. Hammond)
- (2023) “Input Optimization and Lexical Stress in English” in *New Perspectives on English Word Stress*, Eiji Yamada, Anne Przewozny, Jean-Michel Fournier, Nicolas Ballier, eds., Edinburgh University Press, Edinburgh, 264–287.
- (2023) “Morphological reinflection with weighted finite-state transducers” in *Proceedings of the 20th SIGMORPHON workshop on Computational Research in Phonetics, Phonology, and Morphology*, Toronto, Association for Computational Linguistics, 132–137. (A. Kwak, M. Hammond, and C. Wing)
- (2023) “Low-resource grapheme-to-phoneme mapping with phonetically-conditioned transfer” in *Proceedings of the 20th SIGMORPHON workshop on Computational Research in Phonetics, Phonology, and Morphology*, Toronto, Association for Computational Linguistics, 245–248.
- (2023) “KalaamBot and KalimaBot: Applications of Chatbots in Learning Arabic as a Foreign Language” in Mohammad Amin Kuhail, Bayan Abu Shawar, and Rawad Hammad, eds., *Trends, Applications, and Challenges of Chatbot Technology*, IGI Global, Hershey, 186–210. (E. Issa, M. Hammond)
- (2023) “Illustrations of the IPA: Northern Welsh”, *Journal of the IPA* 53, 487–510. (E. Bell, D. Archangeli, S. Anderson, M. Hammond, P. Webb-Davies, H. Brooks)

- (2022) “Orthographic epenthesis and vowel deletion in Welsh”, *Journal of Celtic Linguistics* 23, 115–136. (Hammond, M. & Hannahs, S.J.)
- (2022) “Automatic Correction of Syntactic Dependency Annotation Differences”, LREC 2022. (A. Zupon, A. Carnie, M. Hammond, M. Surdeanu)
- (2021) “Data augmentation for low-resource grapheme-to-phoneme mapping”, *Proceedings of the 18th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 126–130.
- (2020) *Python for Linguists*, Cambridge University Press, Cambridge.
- (2020) “Category-specific effects in Welsh mutation”, *Glossa* 5, 1–26. (Hammond, M., Bell, E., Anderson, S., Webb-Davies, P., Ohala, D., Carnie, A., & Brooks, H.)
- (2019) “Voiceless Nasals in Welsh”, *Journal of Celtic Linguistics* 20, 31–60.
- (2018) “Statistical phonology”, *The Routledge Handbook of Phonological Theory*, edited by S.J. Hannahs and Ann R.K. Bosch, Routledge, Milton Park and New York, 589–616.
- (2018) “Developing an Audio-visual Corpus of Scottish Gaelic” (Clayton, I., Patton, C., Carnie, A., Hammond, M., & Fisher, M.), *Language Documentation and Conservation* 12, 481–513.
- (2018) “Individual variation in lexical palatalization: Articulatory evidence from Scottish Gaelic” *Eoneohag* 80, 23–51. (Sung, J-H., Archangeli, D., Johnston, S., Clayton, I., Fisher, M., Hammond, M., & Carnie, A.)
- (2017) “Lexical representation and processing of word-initial morphological alternations: Scottish Gaelic mutation” (Adam Ussishkin, Natasha Warner, Ian Clayton, Daniel Brenner, Andrew Carnie, Michael Hammond, Muriel Fisher), *Laboratory Phonology: Journal of the Association for Laboratory Phonology* 8, 1–34.
- (2017) “Phonology”, *Handbook of Mereology*, edited by Hans Burkhardt, Johanna Seibt, Guido Imaguire, and Stamatios Gerogiorgakis, Philosophia Verlag, Munich.
- (2017) “Phonological restrictions on lenition in Scottish Gaelic” (Michael Hammond, Yan Chen, Elise Bell, Andrew Carnie, Diana Archangeli, Adam Ussishkin, Muriel Fisher), *Language* 93, 446–472.
- (2017) “Morphological complexity and Input Optimization”, *On looking into words (and beyond): Structures, Relations, Analyses*, edited by Claire Bower, Laurence Horn, and Raffaella Zanuttini, Language Science Press, Berlin, 155–170.
- (2017) “Tell Me Why: Using Question Answering as Distant Supervision for Answer Justification” Becky Sharp, Mihai Surdeanu, Peter Jensen, Marco Antonio Valenzuela-Escárcega, Peter Clark, Michael Hammond, *Proceedings of CoNLL*, 69–79.

- (2016) “Input optimization: phonology and morphology”, *Phonology* 33, 459–491.
- (2016) “Predicting the gender of Welsh nouns”, *Corpus Linguistics and Linguistic Theory* 12, 221–261.
- (2016) “Creating Causal Embeddings for Question Answering with Minimal Supervision” in *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*, Austin, Texas, Association for Computational Linguistics, 138–148. (R. Sharp, M. Surdeanu, P. Jansen, P. Clark, and M. Hammond)
- (2015) “Gwlad y gân: Welsh language, song, and metre”, *Proceedings of FEL* 19, 24–29.
- (2015) “Review of ‘The Phonology of Welsh’ by S. J. Hannahs”, *Lingua* 165, 173–178.
- (2014) “Vowel insertion in Scottish Gaelic”, *Phonology* 31, 123–153. (Michael Hammond, Natasha Warner, Andréa Davis, Andrew Carnie, Diana Archangeli, and Muriel Fisher)
- (2014) “Calculating syllable count automatically from fixed meter poetry in Welsh and English”, *Journal of Literary and Linguistic Computing* 29, 218–233.
- (2014) “Phonological complexity and input optimization”, *Phonological Studies* 17, 85–94.
- (2013) “Input optimization in English”, *Journal of the Phonetic Society of Japan* 17, pp. 26–38.
- (2013) “Cynghanedd yn yr anialwch”, *Barddas* 318, 12–13. (“Cynghanedd in the desert”)
- (2012) “The phonology of Welsh cynghanedd”, *Lingua* 122, 386–408.
- (2012) “Empirical methods in phonological research”, in James Myers, ed., *In Search of Grammar: Experimental and Corpus-based Studies*, Academia Sinica, Taipei, 29–66.
- (2012) “Corpus data vs. experiments in English phonotactics”, in James Myers, ed., *In Search of Grammar: Experimental and Corpus-based Studies*, Academia Sinica, Taipei, 215–240.
- (2011) “The foot”, in Marc van Oostendorp, Colin J. Ewen, Elizabeth Hume & Keren Rice, eds., *The Blackwell Companion to Phonology*, Wiley-Blackwell, Oxford.
- (2011) “Welsh Mutations and Statistical Phonotactics”, *Formal Approaches to Celtic Linguistics*, Andrew Carnie, ed., Cambridge Scholars Publishing, Newcastle upon Tyne, 337–358.
- (2010) “Review of ‘Meter in Poetry: a New Theory’ by Nigel Fabb and Morris Halle”, *Journal of Linguistics* 46, 226–234.
- (2009) “One-Level Finite-State Phonology”, *Time and Again*, William D. Lewis, Simin Karimi, Heidi Harley & Scott O. Farrar, eds., John Benjamins, Amsterdam, 209–225.

- (2008) “The Finite-State Playground”, *International Journal of English Studies* 8 (Special issue on software-aided analysis of language), 197-230.
- (2006) “Prosodic phonology”, *Handbook of English Linguistics*, B. Aarts and A. McMahon, eds, Blackwell, Malden, 411-432.
- (2006) “Anapests and anti-resolution”, in *Formal Approaches to Poetry: Recent Developments in Metrics*, Elan Dresher and Nila Friedberg, eds., Mouton de Gruyter, Berlin, 93-110.
- (2005) “The acquisition of phonology based on input: A closer look at the relation of cross-linguistic and child language data”, *Lingua* 10, 1403-1426. (Tania Zamuner, LouAnn Gerken, and Michael Hammond)
- (2005) “Syllable structure”, in P. Strazny, ed., *Encyclopedia of Linguistics*, Routledge, New York.
- (2004) “Frequency, cyclicity, and optimality”, *Studies in Phonetics, Phonology, and Morphology* 10, 349-364.
- (2004) “Phonotactic probabilities in young children’s speech production”, *Journal of Child Language* 31, 515-536. (Tania Zamuner, LouAnn Gerken, and Michael Hammond)
- (2004) “Gradience, phonotactics, and the lexicon in English phonology”, *International Journal of English Studies* 4, 1-24.
- (2003) “Merlin and the beat”, proceedings of SWOT, *Linguistics Notes from La Jolla* 20, 137-146.
- (2003) “Web-based dictionaries for languages of the Southwest USA”, *Literary and Linguistic Computing* 17, 427-438. (coauthored with 7 others)
- (2003) “Phonotactics and probabilistic ranking”, in A. Carnie, H. Harley, and M. Willie, eds., *Formal Approaches to Function in Grammar: In Honor of Eloise Jelinek*, Benjamins, Amsterdam, 319-332.
- (2003) *Programming for Linguists: Perl for Language Professionals*, Blackwell.
- (2002) *Programming for Linguists: Java Technology for Language Professionals*, Blackwell.
- (2000) “Review of ‘Lexical Strata in English’ by Heinz Giegerich”, *Phonology* 17, 287-290.
- (2000) “The logic of Optimality Theory”, *WECOL* 28, 146-162.
- (2000) “There is no lexicon!”, *Coyote Papers* 10, 55-77.
- (1999) *English Phonology*, Oxford University Press, Oxford.
- (1999) “Is phonology irrelevant?”, *Literary and Linguistic Computing* 13, 165-175

- (1999) “Lexical frequency and rhythm”, in M. Darnell et al., eds., *Functionalism and Formalism in Linguistics*, John Benjamins, Amsterdam, 329-358.
- (1997) “Underlying representations in Optimality Theory”, in I. Roca, ed., *Derivations and Constraints in Phonology*, Oxford University Press, Oxford, 349-366.
- (1997) “Vowel quantity and syllabification in English”, *Language* 73, 1-17.
- (1997) “OT and prosody”, in D. Archangeli and T. Langendoen, eds., *Optimality Theory*, Blackwell, 33-58.
- (1996) “Binarity in English nouns”, in P. Bye, O. Lorentz, and C. Rice, eds., Papers from the 2nd Workshop on Germanic Phonology, *Nordlyd* 24, 97-110.
- (1996) “Psychophonology”, in J. Durand and B. Laks, eds., *Current Trends in Phonology: Models and Methods, volume 1*, University of Salford Publications, 281-304. (Michael Hammond and Emmanuel Dupoux)
- (1996) “Review of ‘Metrical Stress Theory’ by Bruce Hayes”, *Glott* 1, 17-18.
- (1996) “Deriving ternarity”, *Coyote Papers* 9, 39-58.
- (1995) “Onglides in American English”, *Phonology* 12, 159-182. (Stuart Davis and Michael Hammond)
- (1995) “Metrical phonology”, *Annual Review of Anthropology* 24, 313-342.
- (1994) “Heavy trochees in Choctaw” *Phonology* 10, 325-336.
- (1994) “Resyllabification in English and heavy trochees”, *FLSM* 4, 104-122.
- (1993) “Phonological system”, “Phonological typology”, “Phonological universals”, in D. Bolinger and A. McIntosh, eds., *The Encyclopedia of Language and Linguistics*, Pergamon Press, 3123-3130. [The latter two were reprinted in the second edition: Keith Brown, ed., 2006, *Encyclopedia of Language and Linguistics*, Second Edition. Elsevier, Oxford.]
- (1993) “On the absence of category-changing prefixes in English”, *LI* 24, 562-567.
- (1993) “Review of ‘The English Alliterative Tradition’ by Thomas Cable”, *Language* 69, 400-404.
- (1993) “Review of ‘Rhythm and Meter’ by Kiparsky and Youmans”, *Phonology* 9, 358-362.
- (1993) “Review of ‘Morphological Theory’ by Andrew Spencer”, *Yearbook of Morphology* 1993, 269-272.
- (1992) “Morphemic circumscription”, *Yearbook of Morphology* 1991, 195-210.
- (1992) “Deriving the Strict Cycle Condition”, *CLS* 28, 126-140.

- (1992) "Eurhythmy or clash in the English rhythm rule", *Coyote Papers* 8, 74-86.
- (1991) "Poetic meter and the arboreal grid", *Language* 67, 240-259.
- (1991) "Parameters of metrical theory and learnability", in I. Roca, ed., *Logical issues in Language Acquisition*, Foris, 47-62.
- (1991) with E. Norris "Waves, Spectra, and Pendula: Acoustics by Computer", *Innovations in Linguistic Education* 5.2, 10-20.
- (1990) "The 'Name Game' and Onset Simplification", *Phonology* 7, 159-162.
- (1990) "Review of 'Yearbook of Morphology'", *Language* 66, 152-159.
- (1989) "Cyclic secondary stresses in English", *WCCFL* 8, 139-153.
- (1989) "Lexical stresses in Macedonian and Polish", *Phonology* 6, 19-38.
- (1989) edited with E. Moravcsik and J. Wirth *Studies in Syntactic Typology*, John Benjamins Publ.
- (1989) with E. Moravcsik and J. Wirth "The explanatory role of language universals", in Hammond, Moravcsik, and Wirth (1989), 1-22.
- (1988) *Constraining Metrical Theory: A Modular Theory of Rhythm and Destressing*, Garland Press [distributed by IULC 1984 to 1988].
- (1988) "Templatic Transfer in Arabic Broken Plurals", *NLLT* 6, 247-270.
- (1988) "On deriving the well-formedness condition", *LI* 19, 319-325.
- (1988) edited with M. Noonan *Theoretical Morphology: Current Approaches in Linguistics*, Academic Press.
- (1988) with M. Noonan "Current Approaches to Morphology", in Hammond and Noonan (1988), 1-19. [reprinted in Carlos Otero, ed., *Noam Chomsky: Critical Assessments*, Routledge.]
- (1987) "Hungarian Cola" *Phonology Yearbook* 4, 267-269.
- (1987) "Accent, Constituency, and Lollipops" *CLS* 23/2, 149-166.
- (1987) "Destressing Rules in Metrical Theory", *Milwaukee Studies in Language* 1, 76-102.
- (1986) "The Obligatory Branching Parameter in Metrical Theory", *NLLT* 4, 185-228.
- (1985) "Obligatory Branching Revisited", *NELS* 15, 145-167.
- (1985) "Main Stress and Parallel Metrical Planes", *BLS* 15, 417-428.
- (1985) "Level Ordering, Inflection, and the Righthand Head Rule" *MIT Working Papers in Linguistics* 7, 33-52.

- (1985) “Metrical Structure in Lenakel” in the proceedings of the Minnesota Regional Conference on Language and Linguistics, 66-79.
- (1983) “On the Relationship of Rhythm and Destressing”, *NELS* 13, 73-79.
- (1982) “Foot-Domain Rules and Metrical Locality”, *WCCFL* 1, 207-218.
- (1981) “Some Vogul Morphology: A Hierarchical Account of Multiple Exponence” in T. Thomas-Flinders, ed., *UCLA Working Papers in Morphology*, 84-116.

Selected Presented Papers

- (2018) “Prediction vs. significance: learning grammatical gender in Welsh”, invited talk, Dept. of Sociology, UA.
- (2017) “Grant ar dreigladau’r Gymraeg: adroddiad interim”, 24ain Seminar Ieithyddiaeth y Gymraeg, Gregynog, Wales (Michael Hammond, Skye Anderson, Diana Archangeli, Elise Bell, Heddwen Brooks, Andrew Carnie, Diane Ohala, Adam Ussishkin, Peredur Webb-Davies, Andy Wedel).
- (2016) “Phonological and orthographic epenthesis in Welsh”, 23ain Seminar Ieithyddiaeth y Gymraeg, Gregynog, Wales (Hannahs, Hammond).
- (2016) “The Arizona–Wales mutation grant: introducing the project”, 23ain Seminar Ieithyddiaeth y Gymraeg, Gregynog, Wales (Webb-Davies, Anderson, Archangeli, Bell, Brooks, Carnie, Hammond, Ohala, Ussishkin, Wedel).
- (2015) “Gwlad y Gân: Welsh language, song, and meter”, FEL, New Orleans.
- (2015) “Linguistic preconditions for cynghanedd”, 22ain Seminar Ieithyddiaeth y Gymraeg, Gregynog, Wales.
- (2014) “Variability in Welsh grammatical gender”, *Language Diversity in Wales* conference, Aberystwyth.
- (2014) “Input optimization: phonology and morphology”, Manchester Phonology Meeting.
- (2013) “Phonological complexity and input optimization” invited speaker, Phonology Forum 2013, Sapporo, Japan.
- (2012) “Phonological parallelism: the distribution of [h] in English and Welsh”, invited speaker, UTASCLT conference, Arlington, TX.
- (2012) “Finite state scripting”, in LSA special session “Tech Tools: Increasing Technology Training in the Curriculum of Graduate Students in Linguistics”.
- (2011) “Welsh poetry and phonology”, invited talk, University of Edinburgh.

- (2011) “Cynghanedd a seinyddiaeth (Welsh poetry and phonology)”, invited talk, Bangor University (Wales).
- (2011) “Timing of perceptual cues in Scots Gaelic”, with Natasha Warner, Andrew Carnie, Muriel Fisher, Jessamyn Schertz, Lionel Mathieu, Colin Gorrie, and Diana Archangeli, ASA, San Diego.
- (2011) “Can you say [ṽ] or [x̃]? Aerodynamics of nasalized fricatives in Scots Gaelic”, with Dan Brenner, Andréa Davis, Natasha Warner, Andrew Carnie, Muriel Fisher, Jessamyn Schertz, and Diana Archangeli, ASA, San Diego.
- (2011) “Perceptual and Judgment-based Experiments on Scottish Gaelic Svarabhakti”, with Andréa Davis, Diana Archangeli, Andrew Carnie, Muriel Fisher, Natasha Warner, Colin Gorrie, Lionel Mathieu, Jessamyn Schertz, 14th International Congress of Celtic Studies, Maynooth, Ireland.
- (2011) “The articulation of epenthetic vowels in Scottish Gaelic”, with Jessamyn Schertz, Jessamyn, Diane Archangeli, Andrew Carnie, Jae Hyun Song, Lionel Mathieu, Natasha Warner, Brenna Ward, Chelsea Milburn, Peter A. Brown, Dan Brenner, Colin Gorrie and Andréa Davis, 14th International Congress of Celtic Studies, Maynooth, Ireland.
- (2011) “Nasalization and Frication in Scottish Gaelic”, with Natasha Warner, Andrew Carnie, Dan Brenner, Micaya Clymer, Lionel Mathieu, Jae-Hyun Sung, Jessamyn Schertz, Diana Archangeli, Muriel Fisher, and Colin Gorrie, 14th International Congress of Celtic Studies, Maynooth, Ireland.
- (2011) “Epenthetic vowels and harmony in Scottish Gaelic: a preliminary report”, with Diana Archangeli, Jeff Berry, Dan Brenner, P. Brown, Andrew Carnie, Andréa Davis, Julia Fisher, Colin Gorrie, Lionel Mathieu, C. Milburn, Brenna Ward, Natasha Warner, International Congress of Celtic Studies, Maynooth, Ireland.
- (2010) “Scottish Gaelic Experimental Phonology: Preliminary Results”, with Andrew Carnie, Diana Archangeli, Muriel Fisher, Natasha Warner, Daniel Brenner, Micaya Clymer, Andrea Davis, Colin Gorrie, Lionel Mathieu, Jessamyn Schertz, Jaehyun Sung, and Brenna Ward, Celtic Linguistics Conference 6, University College Dublin,
- (2010) “Phonology is the generative component”, ASU-UA Cognitive Science Conclave.
- (2009) “Welsh Mutations and Statistical Phonotactics”, invited talk, Indiana University.
- (2009) “GEN with Lazy Evaluation”, invited talk, Indiana University.
- (2007) “Typology, judgments, and weights”, invited talk, Workshop on Variation, Gradience, and Frequency in Phonology, LSA, Stanford.

- (2007) “Corpus data vs. experiments in English phonotactics”, invited talk, National Chung Cheng University, Taiwan.
- (2007) “Empirical methods in phonology”, invited tutorial, National Chung Cheng University, Taiwan.
- (2005) “Linguists in the Role of Administrator”, invited panel, LASSO, Lubbock, TX.
- (2005) “Experimental Syntax Server”, with Wayne Cowart and James Myers, invited talk, CUNY Sentence Processing Conference, Tucson.
- (2005) “Dirty words, Pig Latin, and the structure of Language”, distinguished lecture (invited), UA.
- (2004) “Wellformedness, probability, and markedness”, invited talk, UCLA.
- (2004) “Phonotactic wellformedness and Optimality Theory”, invited talk, National Chung Cheng University, Taiwan.
- (2004) “Perl for linguists and the Experimental Syntax Server”, invited talk, National Chung Cheng University, Taiwan.
- (2004) “Phonotactic wellformedness and onset complexity”, invited talk, Tsing Hua University, Taiwan.
- (2004) “Effects of syllable onset length in determining word-likeness”, presented at the Acoustical Society of America, New York, with Jordan Brewer and Ben Tucker.
- (2004) “Perceptual cline: categorical effect”, presented at the North American Phonology Conference, Montreal, with Jordan Brewer and Ben Tucker.
- (2004) “*SIMPLE?”, with Jordan Brewer, Ben Tucker, and Lynnika Butler, presented at SWOT, Santa Cruz.
- (2004) “Perl for linguists”, invited tutorial, UC Berkeley.
- (2003) “Toward LingML: is the notation really the theory?”, invited talk, University of Georgia.
- (2003) “Frequency, cyclicity, and Optimality”, invited talk, Second International Korean Phonology Conference, Seoul National University.
- (2002) “Native American online dictionaries”, invited talk, EMELD lexical database conference, Ypsilanti.
- (2002) “Computer programming for linguists: an overview and tutorial”, with Chris Culy, Steven Bird and Edward Loper, and Michael Barlow, presented at the annual meeting of the LSA.

- (2001) “Online dictionaries of Native American languages”, with Sonya Bird and Melody Jeffcoat, presented at the IRCS conference on linguistic databases, Philadelphia.
- (2001) “English phonotactics and frequency”, invited speaker, Conference on English grammar, University of Utah.
- (2001) “English phonotactics, frequency, and probabilistic phonology”, invited speaker, Southwest OT Conference, USC.
- (2000) “/gɛl/ is better than /pʌl/: phonotactic probability in children’s coda productions”, with Tania Zamuner and LouAnn Gerken, presented at the annual meeting of the LSA.
- (2000) “General learning vs. Universal Grammar in children’s coda consonant acquisition”, with Tania Zamuner and LouAnn Gerken, Manchester Phonology Meeting.
- (2000) “Online Native American Dictionaries”, with Sonya Bird, UA Learning Technology Showcase.
- (2000) “Lexical frequency and the ‘rhythm rule’ in English”, with Cathy Hicks and Robert Kennedy, annual meeting of the LSA.
- (1999) “The logic of Optimality”, invited speaker, WECOL, El Paso.
- (1999) “Anapests and antipathy”, presented at the Toronto meter conference.
- (1999) “*Merlin* and the beat”, invited talk, SWOT, UCSD.
- (1999) “Opportunistic footing and the beat”, invited talk, Phonology 2000, Harvard.
- (1999) “English stress and *cranberry* morphs”, presented at the annual meeting of the LSA.
- (1998) “Local encoding of candidate sets”, invited talk, presented at the Current Trends in Phonology II Conference, Royaumont, France.
- (1997) “Many moras”, invited talk, Southwest Optimality Theory Conference, UCLA.
- (1996) “The embarrassment of lexical frequency”, invited talk, Structuralism-Functionalism Conference, Milwaukee.
- (1996) “Binarity in English nouns”, invited talk, Comparative Germanic Phonology Workshop, Tromsø, Norway.
- (1995) “Psychophonology”, invited talk, Current Trends in Phonology Conference, Royau-
mont, France.
- (1995) “Constraints and syllabification in English”, invited talk, Conference on Processing
Consequences of Contrasting Language Phonologies, Trieste, Italy.
- (1994) with Stuart Davis “The on-glide asymmetry in English syllable structure” presented
at the LSA.

- (1993) “Resyllabification in English”, presented at FLSM 4.
- (1993) “Converging evidence for syllables from linguistics and psychology”, Southwestern Cognitive Science Conference.
- (1992) “Deriving the Strict Cycle Condition”, presented at CLS 28.
- (1991) “Derived ternarity and the Domino Condition in Winnebago stress”, presented at the annual meeting of the LSA.
- (1990) “Degree-7 learnability”, presented at GLOW, London, England.
- (1989) “Cyclic secondary stresses in English”, presented at WCCFL 8.
- (1989) “Head-Affixation and Peripherality”, presented at the LSA Institute Morphology Workshop.
- (1989) “Poetic Meter and the Arboreal Grid”, presented at the LSA Institute Workshop on Poetic Meter.
- (1988) “Stress shifts and extrametricality”, presented at the annual meeting of the LSA.
- (1987) “Accent, Constituency, and Lollipops”, invited talk at the Chicago Linguistic Society Parasession on Autosegmental and Metrical Theories (CLS 23).
- (1987) “Inflectional Opacity”, invited talk at the Chapel Hill Conference on Inflectional Morphology and Syntax.
- (1987) “Transfer and Arabic Broken Plurals”, presented at the Minnesota Conference on Language and Linguistics.
- (1986) “Accent in Amharic” presented at the annual meeting of the LSA.
- (1986) with M. Noonan “Current approaches to morphology” presented at the Milwaukee Symposium on Morphology.
- (1985) with E. Moravcsik and J. Wirth “The Explanatory Role of Language Universals” presented at the Milwaukee Symposium on Language Typology and Universals.
- (1985) “Predicting Main Stress in Cairene Arabic” presented at the Milwaukee Symposium on Language Typology and Universals.
- (1985) “Main Stress and Parallel Metrical Planes” presented at the parasession of the eleventh annual meeting of the Berkeley Linguistic Society (BLS 11).
- (1984) “Tiberian Hebrew: an argument for the metrical grid?” presented at the annual meeting of the LSA.
- (1984) “Obligatory-Branching Revisited” presented at the fifteenth annual meeting of the Northeastern Linguistic Society (NELS 15).

- (1984) “Metrical Structure in Lenakel” presented at the Minnesota Regional Conference on Language and Linguistics.
- (1984) “Level-Ordering, Inflection, and the Righthand Head Rule” presented at the MIT Workshop on Morphology.
- (1983) “An Argument from Tunica for Autosegmental vowel Harmony” presented at the annual meeting of the LSA.
- (1982) “On the Directionality of Rhythm” presented at the annual meeting of the LSA.
- (1982) “On the Relationship of Rhythm and Destressing” presented at the thirteenth annual meeting of the Northeastern Linguistic Society (NELS 13).
- (1982) “Foot-Domain Rules and Metrical Locality” presented at the first West Coast Conference on Formal Linguistics (WCCFL 1).
- (1981) “Georgian Verbal Agreement and Abstract Case” presented at the annual meeting of the LSA.