

Jeff Mielke

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Department of English
North Carolina State University
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Employment

2019 –	Professor, Department of English (Linguistics Program), North Carolina State University
2012 – 2019	Associate Professor, Department of English (Linguistics Program), North Carolina State University
2011 – 2013	Associate Professor, Department of Linguistics, University of Ottawa
2006 – 2011	Assistant Professor, Department of Linguistics, University of Ottawa
2004 – 2006	Postdoctoral researcher, Dept. of Linguistics, University of Arizona
1998 – 2004	Graduate Teaching Associate, Teaching Assistant, Research Assistant, Fellow, Department of Linguistics, The Ohio State University

Other associations

2019 –	Adjunct Professor, Department of Linguistics, University of North Carolina at Chapel Hill
2013 – 2021	Adjunct Professor, Department of Linguistics, University of Ottawa
2020	Ultrasound Consultant, University at Buffalo
2009 – 2017	Adjunct Research Professor, Institute of Cognitive Science, Carleton University
2012 – 2013	Autism Spectrum Disorders Canadian-American Research Consortium (ASD-CARC) Ontario Regional Team
2009 – 2012	Consultant, Royal Canadian Mounted Police Multimedia Speaker Database project

2008 – 2010 Database Consultant, Max Planck Institute for Evolutionary Anthropology, Leipzig
Member: Linguistic Society of America, Association for Laboratory Phonology, Acoustical Society of America, International Phonetic Association, Association for Linguistic Typology

Education

2004 Ph.D. Linguistics, The Ohio State University
Dissertation title: “The Emergence of Distinctive Features”
1999 M.A. Linguistics, The Ohio State University
1997 B.A. Linguistics, Minor in Mathematics, University of Washington
1997 B.A. Japanese, University of Washington

Specialization

Laboratory phonology, phonetics, phonological typology, computational phonology, phonological theory, language variation and change

Research funding: external

2019 – 2022 co-PI, grant from the American Association of Oral and Maxillofacial Surgeons, “Orthognathic speech pathology: Understanding how jaw disharmonies and their surgical correction influence speech” (PI Timothy Turvey, UNC Adams School of Dentistry, co-PIs George Blakey, Renie Daniel, Laura Jacox, David Zajac, and Hillary Lathrop)
2019 – 2020 PI, NSF grant SMA-1938348 (Science of Science and Innovation Policy), “Digging into Data Round Four Conference”: \$64,572
2017 – 2022 PI, NSF grant SMA-1730479 (Digging into Data/Trans-Atlantic Platform), “Speech Across Dialects of English (SPADE)” With co-PIs Robin Dodsworth, Paul Fyfe, Erik Thomas, and Tyler Kendall: \$199,791
2016 – 2021 PI, NSF grant BCS-1562134 (Documenting Endangered Languages), “Phonetic and Phonological Documentation of Kalasha, an endangered Indo-Aryan language”: \$323,319
2015 – 2021 PI, NSF grant BCS-1451475 (Linguistics), “Phonological implications of covert articulatory variation”: \$379,994
2010 – 2013 PI, SSHRC grant #410-2010-0552, “Data Mining Sound Patterns”: C\$83,000

- 2009 – 2012 | Funding from the Royal Canadian Mounted Police for assistance with building a speech corpus for testing forensic tools: C\$6772
- 2008 – 2013 | PI, CFI grant #15834, “Sound Patterns Laboratory/Laboratoire des structures sonores” with Marc Brunelle: C\$278,099
- 2007 – 2010 | PI, SSHRC grant #410-2007-0735, “Measuring the Phonetic Similarity of Speech Sounds”: C\$68,804

Research funding: internal

- 2022 – 2023 | Comparative Medicine Institute (CMI), NC State, “Textile-Based Robotic Tongue for Tissue Engineering and Teaching Applications” (co-PI, with PI Xiaomeng Fang and co-PIs Martin King, Madeleine Oakley, and Daxian Zha): \$30,000
- 2018 – 2020 | Non-laboratory Scholarship/Research Support Program, NC State, “Vowel quality repository”: \$5498
- 2016 – 2022 | Provost’s Professional Experience Program, NC State: \$23,750
- 2014 – 2015 | Scholarship and Research Award, NC State College of Humanities and Social Sciences, “Covert variation in speech production: implications for language change”: \$3100
- 2012 | Startup fund from North Carolina State University: \$75,000
- 2012 | Conference grant from University of Ottawa Faculty of Arts/Central Administration, “Conference on Sources of Individual Linguistic Differences”: C\$5872
- 2010 – 2012 | Undergraduate Research Opportunity Program, University of Ottawa: C\$1000
- 2006 | Seed grant, University of Ottawa Faculty of Arts/University Research Committee: C\$9974
- 2006 | Startup funds, University of Ottawa Faculty of Arts: C\$2000
- 2000 | Funding to conduct experiments in France and Ohio, from The Ohio State University: \$1900

Book

- 2008 | Jeff Mielke. *The Emergence of Distinctive Features*. Oxford University Press, Oxford, 2008

Refereed articles

- accepted | Jeff Mielke. Modality differences in temporal organization: what do they mean for phonology?: Response to Law, Power, and Quinto-Pozos. *Language*, accepted
- James Tanner, Morgan Sonderegger, Jane Stuart-Smith, Jeff Mielke, and Tyler Kendall. Automatic classification of stop realisation with wav2vec2.0. In *Proceedings of Interspeech 2025*, accepted
- in press | Steve Parker and Jeff Mielke. Fieldwork in phonology. In Adam Jardine and Paul de Lacy, editors, *Cambridge Handbook of Phonology, Second Edition*. Cambridge University Press, Cambridge, in press
- 2025 | Robin Dodsworth and Jeff Mielke. /t d/ releases are strengthening among white speakers: Evidence from a large-scale acoustic study of English in Raleigh. *Language Variation and Change*, 2025
- Griffin Lowry, Erika Rezende Silva, Jeannene Matthews, Ayumi Shoji, Timothy Turvey, George Blakey, David Zajac, Jeff Mielke, and Laura Anne Jacox. A lingual ultrasound study of speech in patients with cleft lip and palate following orthognathic surgery. *Orthodontics & Craniofacial Research*, 2025
- 2024 | Auvi Tran, Madeleine Oakley, Ciana Paye, Emma Trudan, Nare Ghaltakhchyan, Timothy Turvey, George Blakey, David Zajac, Jeff Mielke, and Laura Anne Jacox. Multitaper spectrum analysis of consonants produced by patients with dentofacial disharmonies. *Journal of Speech, Language, and Hearing Research*, 67(2), 2024
- James Tanner, Morgan Sonderegger, Jane Stuart-Smith, Tyler Kendall, Jeff Mielke, Robin Dodsworth, and Erik Thomas. Exploring the anatomy of articulation rate in spontaneous english speech: relationships between utterance length effects and social factors. In *Proceedings of Interspeech 2024*, 2024
- 2023 | Jeff Mielke, Qandeel Hussain, and Scott Moisk. Development of a vowel feature from coarticulation: biomechanical modeling of rhotic vowels in Kalasha. *Laboratory Phonology*, 14(1), 2023
- Jeff Mielke and Steve Parker. Bora high vowels involve a two-way dental contrast, not a three-way backness contrast. *Laboratory Phonology*, 14(1), 2023
- Jeff Mielke, Madeleine Oakley, Alonso Vasquez, Roberto Zariquiey, and Steve Parker. Bora /i/ is produced with a low tongue dorsum and dental contact: an ultrasound study. In *Proceedings of the 20th International Congress of Phonetic Sciences*, 2023
- Madeleine Oakley, Auvi Tran, Nare Ghaltakhchyan, Ciana Paye, Emma Trudan, Yushan Xie, Timothy Turvey, George Blakey, David Zajac, Laura Anne Jacox, and Jeff Mielke. Dentofacial disharmony patients' sibilants differ from controls' more in source than filter properties. In *Proceedings of the 20th International Congress of Phonetic Sciences*, 2023

- Morgan Sonderegger, Jane Stuart-Smith, Jeff Mielke, and The SPADE Consortium. How variable are English sibilants? In *Proceedings of the 20th International Congress of Phonetic Sciences*, 2023
- Christine Bode, Nare Ghaltakhchyan, Erika Rezende Silva, Timothy Turvey, George Blakey, Raymond White, Jeff Mielke, David Zajac, and Laura Jacox. Speech, development, and dentofacial disharmony for dental professionals. *Applied Sciences*, 13(9):5496
- Qandeel Hussain and Jeff Mielke. Place typology and evolution of implosives in Indo-Aryan languages. *Linguistic Typology*, 2023
- S. Oliver, R. White, T. Turvey, J. Mielke, D. Zajac, and L. Jacox. Impacts of anterior-posterior jaw disproportions on speech of dentofacial disharmony. *European Journal of Orthodontics*, 45(1):1–10, 2023
- 2022 Qandeel Hussain and Jeff Mielke. The emergence of bunched vowels from retroflex approximants in endangered Dardic languages. *Linguistics Vanguard*, 2022
- Erik R. Thomas and Jeff Mielke. The phonetic development of American Raising in eastern Ohio. In Stuart Davis and Kelly Berkson, editors, *American Raising (Publication of the American Dialect Society)*, pages 45–62. Durham, NC, Duke University Press, 2021
- Mary Morgan Keyser, Hillary Lathrop, Samantha Jhingree, Natalie Giduz, Clare Bocklage, Sandrine Couldwell, Steven Oliver, Kevin Moss, Sylvia Frazier-Bowers, Caeib Phillips, Timothy Turvey, George Blakey, Ray White, David Zajac, Jeff Mielke, and Laura Jacox. Impacts of skeletal anterior open bite malocclusion on speech. *FACE: Journal of the American Society of Maxillofacial Surgeons*, 3(2):339–349, 2022
- H. Lathrop, M. M. Keyser, S. Jhingree, N. Giduz, S. Couldwell, C. Phillips, T. Turvey, G. Blakey, J. Mielke, D. Zajac, and L. Jacox. Orthognathic speech pathology: Impacts of class III malocclusion on speech. *European Journal of Orthodontics*, 44(3):340–351, 2022
- 2021 Qandeel Hussain and Jeff Mielke. An acoustic and articulatory study of rhotic and rhotic-nasal vowels of Kalasha. *Journal of Phonetics*, 87, 2021
- Federica Bulgarelli, Jeff Mielke, and Erika Bergelson. Quantifying talker variability in North-American infants’ daily input. *Cognitive Science*, 46(1):e13075, 2021
- 2020 Qandeel Hussain and Jeff Mielke. Kalasha (Pakistan) - Language Snapshot. *Language Documentation and Description*, 17:66–75, 2020
- Qandeel Hussain and Jeff Mielke. An acoustic and articulatory study of laryngeal and place contrasts of Kalasha (Indo-Aryan, Dardic). *Journal of the Acoustical Society of America*, 147(4):2873–2890, 2020

- 2019 Bridget J. Smith, Jeff Mielke, Lyra Magloughlin, and Eric Wilbanks. Sound change and coarticulatory variability involving English /ɪ/. *Glossa: a journal of general linguistics*, 4(1):63.1–51, 2019
- Shiri Lev-Ari, Robin Dodsworth, Jeff Mielke, and Sharon Peperkamp. The different roles of expectations in phonetic and lexical processing. *Proceedings of Interspeech 2019*, 2019
- Jeff Mielke, Erik R. Thomas, Josef Fruehwald, Michael McAuliffe, Morgan Sonderegger, Jane Stuart-Smith, and Robin Dodsworth. Age vectors vs. axes of intraspeaker variation in vowel formants measured automatically from several English speech corpora. In *Proceedings of ICPHS 2019*, pages 1258–1262. 2019
- Jane Stuart-Smith, Morgan Sonderegger, Rachel Macdonald, Jeff Mielke, Michael McAuliffe, and Erik R. Thomas. Large-scale acoustic analysis of dialectal and social factors in English /s/-retraction. In *Proceedings of ICPHS 2019*, pages 1273–1277. 2019
- 2018 Jeff Mielke and Kuniko Nielsen. Voice Onset Time in English voiceless stops is affected by following postvocalic liquids and voiceless onsets. *Journal of the Acoustical Society of America*, 144(4):2166–2177, 2018
- Jeff Mielke. Visualizing phonetic segment frequencies with density-equalizing maps. *Journal of the International Phonetic Association*, 48(2):129–154, 2018
- Amanda Eads, Jodi Khater, and Jeff Mielke. Arabic L2 phonological acquisition: An ultrasound study of emphatics and gutturals. In Mohammad Alhawary, editor, *The Routledge Handbook of Arabic Second Language Acquisition*, pages 93–112. Routledge, New York, 2018
- Anthony Brohan and Jeff Mielke. Frequent segmental alternations in P-base 3. In Larry Hyman and Frans Plank, editors, *Phonological Typology*, pages 196–228. Mouton de Gruyter Phonetics and Phonology series, Berlin, 2018
- 2017 Jeff Mielke, Christopher Carignan, and Erik R. Thomas. The articulatory dynamics of pre-velar and pre-nasal /æ/-raising in English: an ultrasound study. *Journal of the Acoustical Society of America*, 142(1):332–349, 2017
- 2016 Jeff Mielke, Adam Baker, and Diana Archangeli. Individual-level contact limits phonological complexity: evidence from bunched and retroflex /ɪ/. *Language*, 92(1):101–140, 2016
- Christopher Carignan, Jeff Mielke, and Robin Dodsworth. Tongue trajectories in North American English short-a tensing. In Marie-Hélène Côté, Remco Knooihuizen, and John Nerbonne, editors, *The future of dialects*, pages 313–319. Language Science Press, Berlin, 2016

- 2015 Jeff Mielke. An ultrasound study of Canadian French rhotic vowels with polar smoothing spline comparisons. *Journal of the Acoustical Society of America*, 137(5):2858–2869, 2015
- 2013 Alejandrina Cristià, Jeff Mielke, Robert Daland, and Sharon Peperkamp. Similarity in the generalization of implicitly learned sound patterns. *Laboratory Phonology*, 4(2):259–285, 2013
- Jeff Mielke. Phonologization and the typology of feature behavior. In Alan C. L. Yu, editor, *Origins of sound change: Approaches to phonologization*, pages 165–180. Oxford University Press, Oxford, 2013
- 2012 Diana Archangeli, Jeff Mielke, and Douglas Pulleyblank. Greater than noise: Frequency effects in Bantu height harmony. In Bert Botma and Roland Noske, editors, *Phonological Explorations: Empirical, Theoretical and Diachronic Issues*, pages 67–96. Mouton de Gruyter, Berlin, 2012
- Jeff Mielke. A phonetically-based metric of sound similarity. *Lingua*, 122:145–163, 2012
- 2011 Diana Archangeli, Adam Baker, and Jeff Mielke. Categorization and features: Evidence from American English /ɪ/. In G. N. Clements and Rachid Ridouane, editors, *Where Do Phonological Contrasts Come From?*, pages 173–196. John Benjamins, Amsterdam, 2011
- Adam Baker, Diana Archangeli, and Jeff Mielke. Variability in English s-retraction suggests a solution to the actuation problem. *Language Variation and Change*, 23(3):347–374, 2011
- Daniel Currie Hall and Jeff Mielke. Distinctive features (bibliography). In *Oxford Bibliographies Online: Linguistics*. Oxford University Press, Oxford, 2011
- Scott Mackie and Jeff Mielke. Feature economy in natural, random, and synthetic inventories. In G. N. Clements and Rachid Ridouane, editors, *Where Do Phonological Contrasts Come From?*, pages 43–68. John Benjamins, Amsterdam, 2011
- Jeff Mielke. Distinctive features. In Marc van Oostendorp, Colin Ewen, Elizabeth Hume, and Keren Rice, editors, *Companion to Phonology*, pages 43–63. Wiley-Blackwell, 2011
- Jeff Mielke. The nature of distinctive features and the issue of natural classes (section in multi-authored chapter on phonological structure). In Abigail C. Cohn, Cécile Fougeron, and Marie K. Huffman, editors, *Handbook of Laboratory Phonology*, pages 185–196. Oxford University Press, Oxford, 2011

- Jeff Mielke, Lyra Magloughlin, and Elizabeth Hume. Evaluating the effectiveness of Unified Feature Theory and three other feature systems. In John Goldsmith, Elizabeth Hume, and Leo Wetzels, editors, *Tones and Features: in Honor of G. Nick Clements*, pages 223–263. Mouton de Gruyter, Berlin, 2011
- Jeff Mielke, Kenneth S. Olson, Adam Baker, and Diana Archangeli. Articulation of the Kagayanen interdental approximant: An ultrasound study. *Journal of Phonetics*, 39(3):403–412, 2011
- 2010 Jeff Mielke, Adam Baker, and Diana Archangeli. Variability and homogeneity in American English /ɹ/ allophony and /s/ retraction. In Cécile Fougeron, Barbara Kühnert, Mariapaola D’Imperio, and Nathalie Vallée, editors, *Variation, Detail, and Representation (LabPhon 10)*, pages 699–719. Mouton de Gruyter, Berlin, 2010
- Kenneth S. Olson, Jeff Mielke, Josephine Sanicas-Daguman, Carol Jean Pebley, and Hugh Paterson III. The phonetic status of the (inter)dental approximant. *Journal of the International Phonetic Association*, 40(2):199–215, 2010
- 2009 Jeff Mielke. Segment inventories. *Blackwell Language and Linguistics Compass*, 32(3):700–718, 2009
- Jeff Mielke. Interplay between perceptual salience and contrast: /h/ perceptibility in Turkish, Arabic, English and French. In Peter Avery, Elan Dresher, and Keren Rice, editors, *Contrast in Phonology: Perception and Acquisition*, pages 197–216. Mouton de Gruyter, Berlin, 2009
- Jeff Mielke. Accepting unlawful variation and unnatural classes: a model of phonological generalization. In Caroline Féry, Ruben van de Vijver, and Frank Kügler, editors, *Variation and Gradience in Phonetics and Phonology*. Mouton de Gruyter, Berlin, 2009
- 2008 Jeff Mielke. Multiple mechanisms of change and influence: Comments on Harrington, Gussenhoven, Gow and McMurray, and Munson. In Jennifer S. Cole and Jose Hualde, editors, *Change in Phonology (LabPhon 9)*, pages 229–240. Mouton de Gruyter, Berlin, 2008
- 2007 Kenneth S. Olson and Jeff Mielke. Acoustic properties of the Kagayanen vowel space. In Jürgen Trouvain and William J. Barry, editors, *Proceedings of the 16th International Congress of the Phonetic Sciences*, pages 845–848. Pirrot GmbH: Dudweiler, 2007
- 2005 Jeff Mielke. Ambivalence and ambiguity in laterals and nasals. *Phonology*, 22.2:169–203, 2005
- Jeff Mielke and Elizabeth Hume. Distinctive features. In K. Brown, editor, *Encyclopedia of Language and Linguistics, 2nd edition*. Elsevier, Oxford, 2005

- 2003 | Jeff Mielke. The interplay of speech perception and phonology: Experimental evidence from Turkish. *Phonetica*, 60.3:208–229, 2003
- Jeff Mielke, Mike Armstrong, and Elizabeth Hume. Looking through opacity. *Theoretical linguistics*, 29(1-2):123–139, 2003

Manuscripts under review

Jeff Mielke. Distinctive features. In Kuniya Nasukawa, Bridget Samuels, Geoffrey Schwartz, and Miklós Törkenczy, editors, *The Wiley Blackwell Companion to Phonology, Second Edition*. Wiley-Blackwell, under review

Manuscripts in preparation

Erika Rezende Silva, Christine Sirna Bode, Griffin Lowry, Thao Quynh Ngo, Ayumi Shoji, Timothy Turvey, George Blakey, Ray White, Jeannene Matthews, David Zajac, Jeff Mielke, and Laura Anne Jacox. Determining impacts of orthognathic jaw surgery on speech in Class III dentofacial disharmony patients. In preparation for *The New England Journal of Medicine*

Steve Parker and Jeff Mielke. Contrasting /i/ and /u/ in Bora. In preparation for *Phonology*

Non-refereed publications

- accepted | Erik R. Thomas, Jeff Mielke, and Kirk A. Hazen. A hierarchical clustering approach to the dialectal boundary of the South. In *Proceedings of LAVIS V*. 2025
- 2024 | Jeff Mielke, Elizabeth Hume, and Madeleine Oakley. Distinctive features. In Hilary Nesi and Petar Milin, editors, *International Encyclopedia of Language and Linguistics, 3rd edition*. Elsevier, Oxford, 2024
- Jeff Mielke. Phonetic universals. In *Speech Sciences Entries*. Speech Prosody Studies Group, 2024
- 2023 | Christine Bode, Nare Ghaltakhchyan, Erika Rezende Silva, Timothy Turvey, George Blakey, Raymond White, Jeff Mielke, David Zajac, and Laura Jacox. Speech and craniofacial development. In *Scholarly Community Encyclopedia*. MDPI, Basel, Switzerland, 2023
- Jeff Mielke. SPeech Across Dialects of English (SPADE) shiny app, 2020–2024. <https://shiny.chass.ncsu.edu/spade/latest/>
- 2013 | Jeffrey Lamontagne and Jeff Mielke. Perception of Canadian French rhotic vowels. In *Proceedings of Meetings on Acoustics*, 2013

- Jeff Mielke. Ultrasound and corpus study of a change from below: Vowel rhoticity in Canadian French. In *Penn Working Papers in Linguistics 19.2: Papers from NWAV 41*, pages 141–150, 2013
- Jeff Mielke, Kuniko Nielsen, and Lyra Magloughlin. Phonetic imitation by individuals with autism spectrum disorders: Investigating the role of procedural and declarative memory. In *Proceedings of Meetings on Acoustics ICA2013*, volume 19, page 060142. ASA, 2013
- 2012 Diana Archangeli, Jeff Mielke, and Douglas Pulleyblank. From sequence frequencies to conditions in Bantu vowel harmony: Building a grammar from the ground up. In *Phonology in the 21st Century: In Honor of Glyne Piggott (McGill Working Papers in Linguistics Volume 22.1)*. 2012
- 2011 Reza Falahati and Jeff Mielke. An ultrasound study of coronal stop deletion in Persian. In *Proceedings of the Canadian Acoustical Association*, 2011
- Jeff Mielke. An articulatory study of rhotic vowels in Canadian French. In *Proceedings of the Canadian Acoustical Association*, pages 164–165, 2011
- Jeff Mielke. Large scale accessories for large scale phonetics research. In *Proceedings of New Tools and Methods for Very-Large-Scale Phonetics Research*, 2011
- 2008 Adam Baker, Jeff Mielke, and Diana Archangeli. More velar than /g/: consonant coarticulation as a cause of diphthongization. In Charles B. Chang and Hannah J. Haynie, editors, *Proceedings of the 26th West Coast Conference on Formal Linguistics*, pages 60–68, Somerville, MA, 2008. Cascadilla Proceedings Project
- Ying Lin and Jeff Mielke. Discovering place and manner features - what can be learned from acoustic and articulatory data? In Joshua Tauberer, Aviad Eilam, and Laurel MacKenzie, editors, *Penn Working Papers in Linguistics 14.1*, pages 241–254, 2008
- Jeff Mielke. Emergent feature theory. In Edwards, Midtlyng, Sprague, and Stensrud, editors, *CLS 41: The Panels. Proceedings from the Panels of the 41st Meeting of the Chicago Linguistic Society. Volume 41-2*, pages 259–273, Chicago, 2008. CLS
- 2007 Alina Twist, Adam Baker, Diana Archangeli, and Jeff Mielke. Are ‘covert’ /r/ allophones really indistinguishable? In Toni Cook and Keelan Evanini, editors, *Penn Working Papers in Linguistics 13.2*, pages 207–216, 2007
- 2006 Jeff Mielke. Moving beyond innate features: a unified account of natural and unnatural classes. In Leah Bateman and Cherlon Ussery, editors, *Proceedings of the 35th Annual Meeting of the North East Linguistic Society, Volume 2*, pages 435–450, Amherst, Mass, 2006. GLSA

- Jeff Mielke. Emergent features: evidence from natural classes in 561 languages. In Michal Temkin Martínez, Asier Alcázar, and Roberto Mayoral Hernández, editors, *Proceedings of the thirty-third Western Conference On Linguistics*, pages 236–247, 2006
- 2005 Jeff Mielke. Modeling distinctive feature emergence. In John Alderete et al., editor, *Proceedings of the 24th West Coast Conference on Formal Linguistics*, pages 281–289, Somerville, MA, 2005. Cascadilla Proceedings Project
- Jeff Mielke, Adam Baker, Diana Archangeli, and Sumayya Racy. Palatron: a technique for aligning ultrasound images of the tongue and palate. In Scott Jackson and Daniel Siddiqi, editors, *Coyote Papers vol. 14*, pages 96–107. 2005
- 2003 Jeff Mielke. The diachronic influence of perception: Experimental evidence from Turkish. In *Proceedings of the 29th annual meeting of the Berkeley Linguistics Society*, 2003
- 2002 Jeff Mielke. Turkish /h/ deletion: evidence for the interplay of speech perception and phonology. In M. Hirotani, editor, *Proceedings of the 32nd Annual Meeting of the North East Linguistic Society*, pages 383–402, Amherst, Mass, 2002. GLSA
- 2001 Jeff Mielke. Explaining directional asymmetry in Turkish [h] deletion: A crosslinguistic study of perceptibility. In E. Hume and K. Johnson, editors, *The Interplay of Speech Perception and Phonology, OSUWPL vol. 55*, pages 117–171, 2001
- Jeff Mielke. Perception in phonology: the case of Turkish /h/ deletion. In M. Andronis, C. Ball and H. Elston, and S. Neuvel, editors, *CLS 37: The Panels. Papers from the 37th Meeting of the Chicago Linguistic Society. Vol. 2*, pages 59–72, Chicago, 2001. CLS
- Jeff Mielke and Elizabeth Hume. Considerations of word recognition for metathesis. In E. Hume, N. Smith, and J. van de Weijer, editors, *Surface Syllable Structure and Segment Sequencing*, pages 135–158, Leiden, 2001. HIL

Book reviews

- 2017 Jeff Mielke. Review of S. Duanmu (2016) *A theory of phonological features*. *Language*, 93(2):477–481, 2017
- 2011 Abigail C. Cohn. Review of J. Mielke (2008) *The emergence of distinctive features*. *Language*, 87(3):647–649, 2011
- 2000 Elizabeth Hume and Jeff Mielke. Review of C. Gussenhoven and H. Jacobs (1998) *Understanding Phonology*. *Phonology*, 17(2):281–286, 2000

Awards and honors

2020	University Faculty Scholar, NC State
2010, 2012	Linguistics nominee for young researcher of the year, University of Ottawa
2005	Finalist (one of six), 2005 Council of Graduate Schools/University Microfilms International Distinguished Dissertation Award in Humanities and Fine Arts
2003 – 2004	Presidential Fellowship, The Ohio State University (US\$14,000 + tuition)
2002	Award for best student abstract, Second International Conference on Contrast in Phonology
2002	William James Award for best poster presentation, OSU CogFest
2000 – 2001	Foreign Language and Area Studies Fellowship to study Turkish (9 months), from the Ohio State University
1998 – 1999	University Fellowship, The Ohio State University

Thesis supervision

2025	Jeannene Matthews, NC State MA: <i>Raised Larynx Voice in Kalasha's Vowel Inventory</i>
2022	Sean Foley, UNC-Chapel Hill MA thesis: <i>The coarticulatory behavior of Mandarin apical vowels</i> (co-supervisor with Elliott Moreton)
2020	Peter Andrews, NC State MA: <i>An articulatory study of Natqgu using ultrasound</i> Sawsan Alwabari, Ottawa PhD: <i>Phonological and Physiological Constraints on Assimilatory Pharyngealization in Arabic: Ultrasound Study</i> (co-supervisor with Marc Brunelle)
2019	Marie Bissell, NC State MA: <i>An acoustic and articulatory study of phonetically-distinct buzzed /i/ production among speakers in Raleigh, North Carolina</i>
2018	Jessica Hatcher, NC State MA: <i>Spectral Measures of Stop Affrication: The Case of /dʌ/ Affrication in Raleigh</i> Lyra Magloughlin, Ottawa PhD: <i>/tʌ/ and /dʌ/ in North American English: Phonologization of a coarticulatory effect</i> Frankie Pennington, NC State MA: <i>Computational Phonetics as Language Documentation: Implementing Forced Alignment for Kalasha</i>
2016	Amy Hemmeter, NC State MA: <i>Variation in F3 and high-frequency spectral energy in American English /ɪ/</i>

- Eric Wilbanks, NC State MA: *Social and Structural Constraints on a Phonetically-Motivated Change in Progress: (str) Retraction in Raleigh, NC*
- 2014 Md. Jahurul Islam, NC State MA: *Harmonics-to-Noise Ratio and aspiration noise: Explaining ‘voiced aspirated’ stops in Bengali*
- Megan L. Risdal, NC State MA: *An acoustic and articulatory study of coarticulatory vowel nasalization in two dialects of English*
- 2013 Reza Falahati, Ottawa PhD: *Gradient and Categorical Consonant Cluster Simplification in Persian: An Ultrasound and Acoustic Study*
- 2012 Sonia Pritchard, Ottawa PhD: *A Cross-Language Study of the Production and Perception of Palatalized Consonants*
- 2011 Lyra Magloughlin, Ottawa MA: *An ultrasound study of North American English /ɹ/ production in one typically developing English-speaking monolingual child*
- 2009 Marie-Eve Barrette, Ottawa MA: *On the feature [Advanced Tongue Root]*
- 2007 Scott Mackie, Ottawa MA: *The Limits of Feature Economy*

Other graduate supervision

- 2015 Lyra Magloughlin, Ottawa comprehensive exam: *An Exploration of Structure-Preserving Sound Patterns in P-base and An Experimental Proposal*
- 2014 Abdul Alamri, Ottawa comprehensive exam: *Velar palatalization in Arabic*
- Will Dalton, Ottawa comprehensive exam: *An ultrasound study of high vowel laxing in Quebec French*
- 2013 Lyra Magloughlin, Ottawa comprehensive exam: *Acquisition of North American English /ɹ/: An Ultrasound Study*
- 2011 Peter Milne, Ottawa comprehensive exam: *The acoustic properties of /R/ allophones and their distribution in a corpus of Canadian French*
- Reza Falahati, Ottawa comprehensive exam: *An ultrasound study of coronal stops in Persian*
- 2009 Ricardo Tabone, Ottawa comprehensive exam: *Automatic Vowel and Feature Classification*
- Sonia Pritchard, Ottawa comprehensive exam: *Cross-Language Comparison of CⁱV/ C_jV Sequences - An Acoustic-Phonetic Study*

Postdoc supervision and early career mentorship

2021 – 2024	Madeleine Oakley: supervisor for NSF Postdoctoral Research Fellowship 2104619, “Articulation and representation of second language speech sounds”
2021 – 2024	Laura Jacox, assistant professor at UNC Adams School of Dentistry: co-mentor for NIH K08 clinical investigator award, “Orthognathic speech pathology: Understanding how jaw disharmonies and their surgical correction influence speech”
2019 – 2022	Federica Bulgarelli, Duke University Psychology and Neuroscience: co-sponsor for NIH F32 project “Within- and between- talker variability and word learning”
2017 – 2020	Qandeel Hussain: postdoc supervisor for NSF project “Phonetic and Phonological Documentation of Kalasha, an endangered Indo-Aryan language”
2016 – 2018	Bridget Smith: postdoc supervisor for NSF project “Phonological implications of covert articulatory variation”
2013 – 2015	Christopher Carignan: postdoc supervisor

Graduate student and postdoctoral committees

present	Erika Rendeze Silva, Oral and Craniofacial Biomedicine PhD program, UNC-Chapel Hill
present	Christine Esposito, orthodontics resident research committee, UNC Adams School of Dentistry
2024	Christine Bode, orthodontics resident research committee, UNC Adams School of Dentistry
2023	Auvi Tran, orthodontics resident research committee, UNC Adams School of Dentistry
2022	Steven Oliver, orthodontics resident research committee, UNC Adams School of Dentistry
2021	Charlotte Moore, Duke University Psychology and Neuroscience PhD: <i>Variable wordforms, adaptable learners: evidence from real-time word comprehension and naturalistic corpora</i>
2020	Mitko Sabev, University of Oxford Faculty of Linguistics, Philology and Phonetics DPhil: <i>Spectral and Durational Unstressed Vowel Reduction: An acoustic study of monolingual and bilingual speakers of Bulgarian and Turkish</i>
2019	Charlotte Moore, Duke University Psychology and Neuroscience Major Area Paper: <i>An Iterative Tool-Learning Account of Learning in Infancy</i>
2018	Emily Moeng, UNC-Chapel Hill Linguistics PhD: <i>The Acquisition of Phonetic Categories: An Artificial Language Learning Study</i>

- 2017 Ashley Pahis, NC State Foreign Languages and Literatures: *Acoustic characteristics of gay male speech in Spanish*
- 2015 Maxime Papillon, Ottawa MA mémoire: *Learning Novel Contrasts Based on Implausible Phonetics*
 Brandon Prickett, UNC-Chapel Hill MA thesis: *A comparison of complexity and naturalness biases in L1 and L2 phonotactic learning*
- 2014 Peter Milne, Ottawa PhD: *The interaction of phonology and speech style*
- 2013 Sophia Stevenson, Ottawa comprehensive exam: *The Influence of Phonological Status on Speech Perception*
- 2012 Viktor Kharlamov, Ottawa PhD: *Incomplete Neutralization and Task Effects in Experimentally-elicited Speech: Evidence from the Production and Perception of Word-final Devoicing in Russian*
- 2011 Daryl Chow, Ottawa comprehensive exam: *The effect of intonational pitch on utterance-final syllables in Singapore English*
- 2010 Fred Mailhot, Carleton University PhD: *Modelling the Acquisition and Evolution of Vowel Harmony*
 Marie-Claude Séguin, Ottawa PhD: *Catégorisation acoustique des voyelles moyennes antérieures arrondies en français laurentien*
 Peyman Nojournian, Ottawa PhD: *Towards the Development of an Automatic Diacritizer for the Persian Language Based on Xerox Finite State Transducer*
- 2009 Allison Lealess, Ottawa comprehensive exam: *Canadian Raising: OO-correspondence and neighborhood anchors*
 Viktor Kharlamov, Ottawa comprehensive exam: *Structural vs. frequency effects in syllabification*
 Peter Milne, Ottawa comprehensive exam: *Cluster simplification and schwa at word boundaries*
- 2008 Andriy Ryzhyy, Ottawa MA mémoire: *Ukrainian Dialects in Contact with Standard Ukrainian*
- 2007 Carl O'Toole, Ottawa MA mémoire: *Perception of Allophones of English /l/*
 Yuko Ohashi, Ottawa MA mémoire: *Grammatical Constraints on Japanese/English code-switching*
 Marie-Claude Sèguin, Ottawa comprehensive exam: *Filled pauses in Outaouais French*
- 2006 Viktor Kharlamov, Ottawa MA mémoire: *Consonant cluster resolution in Russian: a perceptual approach*

Undergraduate supervision and committees

2024-2025	ECE 484/485 Electrical & Computer Engineering Senior Design project sponsor/mentor for project “Talk box for speech science” ECE 484/485 Electrical & Computer Engineering Senior Design project sponsor/mentor for project “Acoustic feedback for coffee roasting”
2021-2022	ECE 484/485 Electrical & Computer Engineering Senior Design project sponsor/mentor for project “Soft-body robot of the tongue” ECE 484/485 Electrical & Computer Engineering Senior Design project sponsor/mentor for project “Wireless ecgopalatography”
2021	BSC 493 Biological Sciences research experience mentor for Min Lyoo BSC 493 Biological Sciences research experience mentor for Ciana Paye
2019-2020	ECE 484/485 Electrical & Computer Engineering Senior Design sponsor/mentor for project “Vocal tract viewer”
2014	Brandon Prickett, UNC-Chapel Hill honors thesis committee member: <i>The effect of complexity versus the effect of naturalness on phonological learning</i>
2012	Alexandra Schwabe, Ottawa Undergraduate Research Opportunity Program: <i>Cognitive style in speech accommodation</i>
2010	Chris Delaney, Ottawa Undergraduate Research Opportunity Program: <i>Acoustic and Articulatory Dimensions in Sound Patterns</i>

Teaching

	Tongue movements and phonology LSA Linguistic Institute, University of Oregon: Summer 2025
ENG 315	Phonetics (undergraduate; previously COM 315) NC State: Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021 w/Erik Thomas, Fall 2021, Fall 2022, Fall 2024
ENG 320	Anatomy & Physiology of Speech and Hearing (undergraduate) NC State: Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024
ENG 415	Speech Science (undergraduate; previously ENG 338) NC State: Spring 2021 w/Erik Thomas, Spring 2023, Spring 2025
ENG 536	Research Methods for Phonology (taught as ENG 584 Studies in Linguistics through 2015) NC State: Spring 2013, Spring 2014, Fall 2015, Spring 2017, Spring 2018, Spring 2020, Spring 2021, Fall 2023
ENG 210	Introduction to Language and Linguistics (undergraduate) NC State: Spring 2013 w/Robin Dodsworth, Fall 2015 ×2, Fall 2016 ×2

ENG 524	Introduction to Linguistics (graduate level) NC State: Fall 2013, Fall 2014, Fall 2017
ENG 636	Directed Readings; NC State: Fall 2013, Spring 2018, Fall 2019, Fall 2024
LIN5998	Guided Research I; Ottawa: Winter 2014
LI528	Individual differences in sound change (w/Alan Yu) LSA Linguistic Institute, University of Michigan: Summer 2013
LIN1320	Introduction to Linguistics II: The sounds of language (undergraduate) Ottawa: Winter 2007, Winter 2008, Winter 2009, Winter 2010, Winter 2011, Winter 2012
LIN2320	Introduction to Phonology (undergraduate) Ottawa: Fall 2006, Fall 2008, Fall 2009, Fall 2011
LIN4392/ 7930	Topics in Linguistics II - Computational tools for linguistics Ottawa: Winter 2007
LIN5915	Phonology I (graduate level) Ottawa: Fall 2006, Fall 2007, Winter 2009
LIN6915	Phonology II (graduate level) Ottawa: Winter 2012
LIN7930	Topics in Theoretical Linguistics I - Sound Patterns in the Laboratory Ottawa: Fall 2010
LIN7933	Seminar in Linguistics II - Distinctive features in the 21st century Ottawa: Fall 2007
LIN8998	Doctoral seminar Ottawa: Fall 2009
LING 170	The Basics of Learning a Language (teaching assistant) Ohio State: Spring 2003
LING603.02	Phonological Theory II (graduate level, co-instructor) Ohio State: Winter 2003
LING 365	Language Across Cultures (undergraduate) Ohio State: Spring 2002
LING 201	Introduction to Language (undergraduate) Ohio State: Fall 1999, Winter 2000, Fall 2001, Winter 2002, Fall 2002

Software and research tools

2024 –

phonNCSU github repository: <https://github.com/phonNCSU/>

- 2020 – Speech Across Dialects of English (SPADE) shiny app: <https://shiny.chass.ncsu.edu/spade/stable/>
- 2013 – NC State Phonetics Lab manual: <https://phon.wordpress.ncsu.edu/>
- 2007 – Phonetic similarity database: multimodal phonetic data for 130 consonants and vowels
- 2006 – Research tools for lingual ultrasound imaging: e.g., polar SSANOVA
- 2004 – P-base: database of sound patterns in 500+ languages: <https://pbase.phon.chass.ncsu.edu/>
- 2004 – Palatron algorithm for head movement correction in ultrasound imaging (with Adam Baker, implemented in Palatoglossatron)

Conferences and workshops organized

- 2020 Digging into Data Round Four Conference, Alexandria, Virginia, January 2020
- 2014 Ultrasound research workshop, University of Ottawa
- 2012 “Conference on sources of individual linguistic differences (with special attention to Autism Spectrum Disorders)/Conférence sur les sources des différences linguistiques individuelles (avec attention spéciale aux troubles du spectre autistique)” conference, University of Ottawa, March 2012 (with Suzanne Curtin, Lyra Magloughlin, and Alan Yu)
- Ultrasound research workshop, University of Pennsylvania
- 2010 Ultrasound research workshop, University of Texas at Arlington
- 2009 Using ultrasound to study articulatory variation, New Ways of Analyzing Variation (NWAV) 38, Ottawa
- 2007 “New Techniques in Sound Pattern Research” workshop, Stanford LSA Summer Institute (with Diana Archangeli)
- MOT Phonology Workshop, Ottawa
- 2005 Ultrasound Research in Linguistics, Linguistics Association of the Southwest (LASSO), Texas Tech (with Diana Archangeli)

Professional activities and service: external

- 2025 – Editor-in-chief, *Journal of Phonetics*
- 2015 – Editorial board, *Journal of the International Phonetic Association*
- 2022 – 2027 Advisory Board member, Edinburgh Advanced Textbooks in Linguistics
- 2017 – 2025 Associate Editor, *Linguistic Typology*
- 2018 – 2024 Associate Editor, *Journal of Phonetics*

2015 – 2024	Editorial board, <i>Laboratory Phonology</i>
2023	Scientific area chair (Phonetic Universals and Typology), 20th International Congress of Phonetic Sciences (ICPhS)
2014 – 2022	Treasurer, Association for Laboratory Phonology
2017	Social Sciences and Humanities Research Council of Canada (SSHRC) focus group on data management plans
2015 – 2017	Editorial board, <i>Journal of Phonetics</i>
2012	Ontario Graduate Studies scholarship panel, Modern Languages
2010 – 2011	Social Sciences and Humanities Research Council of Canada (SSHRC) Committee 05 (Standard Research Grants in Linguistics, Applied Linguistics, and Translation)
Referee	<p>Manuscripts: <i>Phonology</i>, <i>Laboratory Phonology</i>, <i>Journal of Phonetics</i>, <i>Journal of the Acoustical Society of America</i>, <i>Linguistic Typology</i>, <i>Lingua</i>, <i>Journal of Linguistics</i>, <i>Language Learning and Development</i>, <i>The Linguistic Review</i>, <i>Language</i>, <i>Language and Cognition</i>, <i>Language Sciences</i>, <i>Journal of Cognitive Science</i>, <i>PLOS ONE</i>, <i>Journal of the International Phonetic Association</i>, <i>Language and Speech</i>, <i>Frontiers in Psychology</i>, <i>Phonetica</i>, <i>International Journal of American Linguistics</i>, <i>Journal of Autism and Developmental Disorders</i>, <i>Linguistic Inquiry</i>, <i>Journal of Language Contact</i>, <i>Oceanic Linguistics</i>, <i>Journal of Mathematical Psychology</i>, <i>PNAS</i>, <i>Journal of Speech, Language, and Hearing Research</i>, <i>Speech Communication</i></p> <p>Grant proposals: National Science Foundation, Social Sciences and Humanities Research Council of Canada (SSHRC), Canadian Foundation for Innovation (CFI), Le fonds québécois de recherche sur la société et la culture (FQRSC), The Netherlands Organisation for Scientific Research, Israel Science Foundation.</p> <p>Book proposals: Oxford University Press, Edinburgh University Press</p> <p>Abstracts and short papers: LabPhon, International Congress of Phonetic Sciences (ICPhS), LSA annual meeting, New Ways of Analyzing Variation (NWAV), Western Conference on Linguistics (WECOL), West Coast Conference on Formal Linguistics (WCCFL), North East Linguistic Society (NELS), Generative Linguistics in the Old World (GLOW), Southeastern Conference on Linguistics (SECOL), Association for Computational Linguistics (ACL), Annual Meeting on Phonology (AMP)</p>

Professional activities and service: internal

2024 –	Advisory Committee (English, NC State)
2024 – 2026	Post-Tenure Review Committee (English, NC State)

- 2023 – Undergraduate Studies Committee (English, NC State)
- 2023 – Faculty Adviser, NC State chapter of the National Student Speech, Hearing, and Language Association (NSSHLA)
- 2023 – Adviser for linguistics minor (English, NC State)
- 2023 – 2024 College of Humanities and Social Sciences Post-Tenure Review Committee (NC State)
- 2022 – Linguistics brown bag speakers series committee (English, NC State)
- 2022 – Convener, Linguistics Lab Committee (English, NC State)
- 2021 – 2022 Quarterly Working Group on Reimagining the NC State Postdoc Experience
- 2020 – 2021 Convener, Post-Tenure Review Committee (English, NC State)
- 2019 – 2021 Post-Tenure Review Committee (English, NC State)
- 2017 – 2023 Convener, Research and Professional Development Committee (English, NC State)
- 2014 – 2021 University Research Committee (NC State)
- 2013 – 2023 College of Humanities and Social Sciences Research Committee (NC State)
- 2012 – Director, Phonetics Laboratory (NC State)
- 2012 – Linguistics Lab Committee (English, NC State)
- 2012 – 2023 Research and Professional Development Committee (English, NC State)
- 2018 Search committee member, postdoctoral affairs program manager (Graduate School, NC State)
- 2013 – 2015 Budget Oversight Committee (English, NC State)
- 2011 – 2012 Professor-Student Mentoring Program, University of Ottawa Faculty of Arts
- 2010 – 2012 Graduate Studies Committee (University of Ottawa Linguistics)
- 2009 – 2012 Director, Sound Patterns Laboratory (Ottawa)
- 2009 – 2012 Chair, University of Ottawa Linguistics Research Laboratory Committee
- 2008 – 2012 Chair, Invited Lecturers Committee (Ottawa Linguistics)
- 2007 – 2012 Web Page liaison (Ottawa Linguistics)
- 2007 – 2012 Owner, Ottawa Linguistics Department listservs
- 2006 – 2011 Linguistics Research Laboratory Committee (Ottawa)
- 2007 – 2011 Coordinator, Ottawa-Carleton Phonology discussion group
- 2006 – 2007 Organizer (with Nina Kazanina), speech perception reading group (Ottawa)
- 2007 – 2008 University of Ottawa Linguistics Department newsletter (Hiatus)
- 2006 – 2007 Invited Lecturers Committee (Ottawa Linguistics)

Extension and community engagement

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|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024 | American Association of Orthodontists Webinar: “Orthognathic Speech Pathology: Understanding How Severe Malocclusions Influence Speech” with Laura Jacox and David Zajac |
| 2014 – 2016 | Organized ultrasound imaging demonstrations, North Carolina State Fair |
| 2011 | English Pronunciation Seminar (using ultrasound for articulatory feedback), Organized by KOWIN Ottawa at Korean Embassy in Ottawa. |
| 2010 | Lab demonstrations for grade 8-11 students in Enrichment Mini-Courses Program (Ottawa) |
| 2005 | Grand Awards Judge (Behavioral and Social Sciences), Intel International Science and Engineering Fair |

Invited talks

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025 | Jeff Mielke. Acoustic and articulatory modeling of bora and kalasha vowels. Cornell P-lab presentation, 2025
Jeff Mielke. Covert and overt articulatory variation and their implications for phonology. Cornell Linguistics Circle Speaker Series, 2025
Robin Dodsworth and Jeff Mielke. Data science and AI in linguistics. Symposium on Data Science and AI in Humanities and Social Sciences, NC State, 2025
Jeff Mielke. Think and do phonetics. NC State Department of English Faculty Speakers Series, 2025 |
| 2024 | Jeff Mielke, Madeleine Oakley, Alonso Vásquez-Aguilar, Roberto Zariquiey, and Steve Parker. Contrasting /i/ and /u/ in Bora: acoustic, visual, ultrasound, and phonological data, plus acoustic modeling. University of Oxford Phonetics Lab Skills Workshop, 2024 |
| 2022 | Jeff Mielke and Steve Parker. Bora high vowels involve a two-way dental contrast, not a three-way backness contrast. Cal State Fresno Linguistics Colloquium, 2022 |
| 2021 | Jeff Mielke. Orthognathic speech pathology: Understanding how dentofacial disharmonies affect speech, continued. UNC-Chapel Hill Friday Linguistics Colloquium, 2021 |
| 2020 | Jeff Mielke. Articulation and acoustics of some typologically unusual vowels. Cognitive, Auditory, and Neural Bases of Language & Speech DIBS Research Group, 2020 |
| 2019 | Jeff Mielke. Phonetic studies of vowels in two endangered languages. Brown University Speaker Series, 2019 |

- Jeff Mielke. Phonetic studies of typologically unusual vowel systems. University of Georgia Speaker Series, 2019
- Jeff Mielke. Phonetic studies of interesting vowel systems. Cornell Linguistics Circle Speaker Series, 2019
- 2018 Jeff Mielke, Bridget Smith, Jessica Hatcher, Lyra Magloughlin, and Eric Wilbanks. Continuous and discrete representations in coarticulation to /ɪ/ in English. Penn Linguistics Conference Panel on Signals and Symbols: Linking continuous and discrete representations, 2018
- Elliott Moreton and Jeff Mielke. Channel bias, inductive bias, and phonological typology (I). Emergence of Universals Workshop, Columbus, OH, 2018
- Jeff Mielke and Elliott Moreton. Channel bias, inductive bias, and phonological typology (II). Emergence of Universals Workshop, Columbus, OH, 2018
- 2017 Jeff Mielke, Bridget Smith, and Michael J. Fox. A corpus and articulatory study of covert articulatory variation and its phonological consequences in Raleigh, NC English. 4th Workshop on Sound Change, Edinburgh, 2017
- Jeff Mielke. Covert articulatory variation and the phonetics-phonology interface. NYU Linguistics Colloquium Series, 2017
- Jeff Mielke. Articulatory variation and the development of phonological patterns. Princeton Linguistics Colloquium, 2017
- 2016 Jeff Mielke, Christopher Carignan, and Erik R. Thomas. Phonetic and phonological variation in English /æ/ tensing. UNC Linguistics Spring Colloquium, 2016
- 2015 Jeff Mielke, Erik R. Thomas, and Christopher Carignan. Using ultrasound articulatory signals to investigate the phonetic motivations of English /æ/ tensing. 170th Meeting of the Acoustical Society of America, Jacksonville, 2015
- Jeff Mielke. Articulatory variation and phonological typology. Plenary talk, 41st meeting of the Berkeley Linguistics Society, 2015
- 2014 Jeff Mielke, Christopher Carignan, and Robin Dodsworth. A study of tongue trajectories for English /æ/ using articulatory signals automatically extracted from lingual ultrasound video. 168th Meeting of the Acoustical Society of America, Indianapolis, 2014
- Christopher Carignan, Jeff Mielke, and Robin Dodsworth. Temporal dynamics of /æ/ tensing in North American English: an ultrasound study. Methods in Dialectology XV, Groningen, 2014
- Jeff Mielke. Typological and articulatory perspectives on context effects. 3rd Workshop on Sound Change, Berkeley, 2014

- Jeff Mielke. Ultrasound studies of vowel dynamics. Stanford phonetics/phonology workshop, 2014
- Jeff Mielke and Rebecca Scarborough. Discussant (comments on the multiple correspondences session). Agreement by Correspondence Workshop, Berkeley, 2014
- Jeff Mielke. Rhotic vowels and /æ/ tensing at the linguistics/ultrasound interface. University of Ottawa, 2014
- Jeff Mielke. Individual differences shape phonological typology. McMaster University Cognitive Science of Language lecture series, 2014
- 2013 Jeff Mielke and Anthony Brohan. Frequent segmental patterns in p-base 3. Phonological Typology workshop, University of Oxford, 2013
- Jeff Mielke. Discussant (articulatory factors in the actuation of sound change). Workshop on the actuation problem, University of Chicago, 2013
- 2012 Jeff Mielke. Macro and micro approaches to emergent patterns in phonology. Colloquium talk, North Carolina State University Department of English, 2012
- Jeff Mielke. Phonological typologies at the individual level and the language level. Colloquium talk, University of Pennsylvania, 2012
- Jeff Mielke. Language-level implications of individual-level sound patterns. Colloquium talk, University of South Carolina, 2012
- Jeff Mielke. Tools from the phonology laboratory. Colloquium talk, North Carolina State University, 2012
- 2011 Jeff Mielke. Emergent phonology on small and large scales. Colloquium talk, McGill Department of Linguistics, 2011
- 2010 Jeff Mielke. Feature effects and phonetic similarity. Colloquium talk, University of British Columbia Department of Linguistics, 2010
- Jeff Mielke. Phonetic similarity and phonological activity. Colloquium talk, University of Calgary Department of Linguistics, 2010
- Jeff Mielke. Learning phonological distinctive features. Colloquium talk, Simon Fraser University Applied Math Seminar, 2010
- Jeff Mielke. Phonetic accounts for some phonological feature effects. Colloquium talk, Simon Fraser University Department of Linguistics, 2010
- Jeff Mielke. Phonetic accounts for phonological feature effects. Colloquium talk, University of Victoria Department of Linguistics, 2010
- Jeff Mielke. Three uses of ultrasound imaging in laboratory phonology. Colloquium talk, University of Texas at Arlington Department of Linguistics, 2010
- Jeff Mielke. Getting the features you want. Computational modeling of phonological acquisition conference, University of Alberta, 2010

- 2008 | Jeff Mielke. Typical behaviors of some frequent phonologically active classes. Colloquium talk, Max Planck Institute for Evolutionary Anthropology, Leipzig, 2008
- Ying Lin and Jeff Mielke. A probabilistic clustering approach to phonological categorization and feature induction. 2008 Annual Meeting of the Linguistic Society of America, Chicago. Workshop on attention to cues and phonological categorization, 2008
- Jeff Mielke. Deconstructing distinctive features. Colloquium talk, Carleton University School of Linguistics and Language Studies, 2008
- Jeff Mielke. Distinctive feature emergence in acquisition and diachrony. Colloquium talk, University of Rochester Center for Language Sciences, 2008
- Jeff Mielke. Different features do different things because they come from different places. Colloquium talk, University of Ottawa Department of Linguistics, 2007
- 2006 | Jeff Mielke. Investigating the emergence of distinctive features. University of Ottawa, 2006
- Jeff Mielke. Natural classes, phonetic similarity, and feature emergence. University of Alberta, 2006
- Jeff Mielke. Investigating feature emergence: survey, similarity, and simulation. University of Colorado, 2006
- 2005 | Jeff Mielke. Survey and simulation evidence for emergent features. Colloquium talk, Laboratoire de sciences cognitives et psycholinguistique, Paris, 2005
- 2004 | Jeff Mielke. The emergence of distinctive features. Colloquium talk, University of Arizona, 2004

Other conference presentations

- 2024 | Madeleine Oakley, Jeff Mielke, and Jeannene Matthews. Transfer of articulatory targets in production of second language Korean sibilants. LabPhon 19, Hanyang University, 2024
- James Tanner, Morgan Sonderegger, Jane Stuart-Smith, Tyler Kendall, Jeff Mielke, Erik Thomas, Robin Dodsworth, and SPADE Data Consortium. Exposing the anatomy of articulation rate across english dialects and speakers. LabPhon 19, Hanyang University, 2024
- Erik R. Thomas, Jeff Mielke, and Kirk A. Hazen. Regional vowel patterns as shown by discrete cosine transforms. 186th meeting of the Acoustical Society of America, Ottawa, 2024

- Erik R. Thomas, Jeff Mielke, and Kirk A. Hazen. A hierarchical clustering approach to the dialectal boundary of the South. LAVIS V and SECOL XCI, Athens, Georgia, 2024
- Amanda Eads, Jodi Khater, and Jeff Mielke. An articulatory investigation of Arabic emphatic and guttural consonants using ultrasound. 37th Annual Symposium on Arabic Linguistics, Long Island University, 2024
- James Tanner, Morgan Sonderegger, Jane Stuart-Smith, Tyler Kendall, Jeff Mielke, Erik Thomas, Robin Dodsworth, and SPADE Data Consortium. Dialect and speaker variation, and the role of the anticipatory shortening effect in english articulation rate. Colloquium of the British Association of Academic Phoneticians (BAAP 2024), Cardiff University, 2024
- 2023 Jeff Mielke, Madeleine Oakley, Alonso Vasquez, Roberto Zariquiey, and Steve Parker. Bora /i/ is produced with a low tongue dorsum and dental contact: an ultrasound study. 20th International Congress of Phonetic Sciences, Prague, 2023
- Madeleine Oakley, Auvi Tran, Nare Ghaltakhchyan, Ciana Paye, Emma Trudan, Yushan Xie, Timothy Turvey, George Blakey, David Zajac, Laura Anne Jacox, and Jeff Mielke. Dentofacial disharmony patients' sibilants differ from controls' more in source than filter properties. 20th International Congress of Phonetic Sciences, Prague, 2023
- Morgan Sonderegger, Jane Stuart-Smith, Jeff Mielke, and The SPADE Consortium. How variable are English sibilants? 20th International Congress of Phonetic Sciences, Prague, 2023
- Nare Ghaltakhchyan, Ellie Nanney, David Zajac, Jeff Mielke, and Laura Jacox. Evaluating the impact of severe malocclusions and their surgical correction on speech using lingual ultrasound imaging. 80th meeting of the American Cleft Palate Craniofacial Association, Raleigh, 2023
- Gabrielle Mascarin, Yushan Xie, Olivia Tumsuden, David Zajac, Jeff Mielke, and Laura Jacox. Evaluating vowel formants of dentofacial disharmony patients. 80th meeting of the American Cleft Palate Craniofacial Association, Raleigh, 2023
- Erik Thomas, Jason William Lobel, Jeff Mielke, and Labi Hadji Sarip Riwarung. Acoustic correlates of aspirated consonants in Maranao. 184th meeting of the Acoustical Society of America, Chicago, 2023
- 2022 Robin Dodsworth and Jeff Mielke. Prepausal /t/ and /d/ in American English are increasingly affricated: A new change in progress. *New Ways of Analyzing Variation (NWAV) 51*, Stanford, 2022
- Jeff Mielke, Marie Bissell, Bridget Smith, Ciana Paye, and Emma Trudan. Pharyngealized interdental and intrusive L in American English. *LabPhon 18*, 2022

- Morgan Sonderegger, Irene Smith, Jane Stuart-Smith, Jeff Mielke, and The Spade Consortium. Sound change is drawn from pools of synchronic variation: Dialect and speaker variability in English /s/-retraction. Colloquium of the British Association of Academic Phoneticians (BAAP 2022), University of York, 2022
- 2020 Jeff Mielke, Qandeel Hussain, and Scott Moisik. Modeling the development of a new vowel feature: rhoticity in Kalasha. LabPhon 17, Vancouver, 2020
- Qandeel Hussain and Jeff Mielke. Laryngeal typology of endangered Indo-Iranian, Sino-Tibetan, and Isolate languages (poster). LabPhon 17, Vancouver, 2020
- Jane Stuart-Smith, Morgan Sonderegger, Jeff Mielke, James Tanner, Vanna Willerton, and The SPADE Consortium. Desperately seeking English sibilants: Discovering dialect norms and speaker variability for /s S/ from large-scale multi-dialect analysis. LabPhon 17, Vancouver, 2020
- 2019 Qandeel Hussain and Jeff Mielke. The emergence of retroflex vowels in endangered Dardic and Nuristani languages. 5th Workshop on Sound Change, UC Davis, 2019
- Jeff Mielke, Erik R. Thomas, Josef Fruehwald, Michael McAuliffe, Morgan Sonderegger, Jane Stuart-Smith, and Robin Dodsworth. Age vectors vs. axes of intraspeaker variation in vowel formants measured automatically from several English speech corpora. 19th International Congress of Phonetic Sciences, Melbourne, 2019
- Jane Stuart-Smith, Morgan Sonderegger, Rachel Macdonald, Jeff Mielke, Michael McAuliffe, and Erik R. Thomas. Large-scale acoustic analysis of dialectal and social factors in English /s/-retraction. 19th International Congress of Phonetic Sciences, Melbourne, 2019
- Erik R. Thomas, Jeff Mielke, Josef Fruehwald, Michael McAuliffe, Morgan Sonderegger, Jane Stuart-Smith, and Robin Dodsworth. Applying refined automatic formant measurement to determination of the orientations of vowel distributions. 177th Meeting of the Acoustical Society of America, Louisville, 2019
- Qandeel Hussain and Jeff Mielke. Articulatory correlates of retroflex and retroflex-nasalized vowels of Kalasha. 2019 Annual Meeting of the Linguistic Society of America, New York, 2019
- 2018 Jeff Mielke, Josef Fruehwald, Erik R. Thomas, Michael McAuliffe, Morgan Sonderegger, and Robin Dodsworth. Age vectors vs. axes of intraspeaker variation for North American and Scottish English vowel formants. New Ways of Analyzing Variation (NWAV) 47, New York University, 2018
- Jane Stuart-Smith, Morgan Sonderegger, Rachel Macdonald, Michael McAuliffe, and Jeff Mielke. Dialectal and social factors affect the phonetic bases of English /s/-retraction. New Ways of Analyzing Variation (NWAV) 47, New York University, 2018

- Qandeel Hussain and Jeff Mielke. An acoustic and articulatory description of retroflex vowels of Kalasha. Annual Meeting on Phonology (AMP), University of California, San Diego, 2018
- Qandeel Hussain and Jeff Mielke. Phonetic and phonological documentation of Kalasha. University of Toronto Department of Linguistics, 2018
- Jeff Mielke, Bridget Smith, and Jessica Hatcher. Overt consequences of covert variability in coarticulation with /ɾ/ (poster). LabPhon 16, Lisbon, 2018
- Erik R. Thomas, Jeff Mielke, Josef Fruehwald, Jordan Holley, Michael McAuliffe, Morgan Sonderegger, Jane Stuart-Smith, Robin Dodsworth, and Tyler Kendall. Age vectors vs. axes of intraspeaker variation for vowel formants in North American and Scottish English (poster). LabPhon 16, Lisbon, 2018
- Jane Stuart-Smith, Morgan Sonderegger, Michael McAuliffe, Rachel Macdonald, Jeff Mielke, Erik Thomas, and Robin Dodsworth. Dialectal and social factors affect the phonetic bases of English /s/-retraction (poster). LabPhon 16, Lisbon, 2018
- Qandeel Hussain, Jeff Mielke, and Frankie Pennington. Acoustic and articulatory study of the three-way laryngeal contrast in coronal stops of Balti. 51st International Conference on Sino-Tibetan Languages and Linguistics, Kyoto, 2018
- Amanda Eads, Jodi Khater, and Jeff Mielke. Heritage and L2 learners' acquisition of Arabic emphatics and gutturals: An ultrasound study. 2018 Arabic Applied Linguistics Conference, University of Michigan, 2018
- Qandeel Hussain, Jeff Mielke, and Frankie Pennington. Stop laryngeal contrasts of endangered languages of Northern Pakistan (talk). 175th Meeting of the Acoustical Society of America, Minneapolis, 2018
- Steve Parker, Jeff Mielke, and Frankie Pennington. Acoustic and articulatory study of /i/ and /u/ in Bora (poster). UNC Linguistics Spring Colloquium, Chapel Hill, 2018
- Jessica Hatcher and Jeff Mielke. Tools for measuring pre-rhotic /d/ affrication in spontaneous speech. 2018 Annual Meeting of the Linguistic Society of America, Salt Lake City, 2018
- Steve Parker, Jeff Mielke, and Frankie Pennington. Phonetic study of /i/ and /u/ in Bora (poster). 2018 Annual Meeting of the Linguistic Society of America, Salt Lake City, 2018
- 2017 Jeff Mielke, Bridget Smith, and Michael J. Fox. Implications of covert articulatory variation for several phonetic variables in Raleigh, North Carolina English (poster). Acoustics '17, Boston, 2017
- Steve Parker, Jeff Mielke, and Frankie Pennington. A comparison of lip positions for /i/ and /u/ in Bora (poster). Acoustics '17, Boston, 2017

- 2016 Amanda Eads, Jodi Khater, and Jeff Mielke. Arabic L2 acquisition: An ultrasound study of emphatics and gutturals. 2016 Arabic Second Language Acquisition Conference, University of Michigan, 2016
- Jeff Mielke, Christopher Carignan, and Erik R. Thomas. Production dynamics and phonetic motivations for English raised /æ/ (poster). LabPhon 15, Cornell University, 2016
- Michael J. Fox and Jeff Mielke. Regional variation in formant dynamics and the phonologization of pre-velar raising in American English (poster). LabPhon 15, Cornell University, 2016
- Jeff Mielke and Kuniko Nielsen. Modeling Voice Onset Time in English: Factors and their cross-speaker variability (poster). LabPhon 15 satellite meeting “Higher-order structure in speech variability”, Cornell University, 2016
- 2015 Jeff Mielke, Christopher Carignan, and Erik R. Thomas. Articulatory signals from ultrasound video, applied to North American English variables. *New Ways of Analyzing Variation (NWAV) 44*, Toronto, 2015
- Jeff Mielke and Kuniko Nielsen. Effects of following onsets on voice onset time in English. 170th Meeting of the Acoustical Society of America, Jacksonville, 2015
- Jeffrey Lamontagne and Jeff Mielke. Perception of Canadian French rhotic vowels. *New Ways of Analyzing Variation (NWAV) 44*, Toronto, 2015
- 2013 Jeffrey Lamontagne and Jeff Mielke. Perception of Canadian French rhotic vowels. 21st International Congress on Acoustics/165th meeting of the Acoustical Society of America/52nd meeting of the Canadian Acoustical Association, Montreal, 2013
- Lyra Magloughlin and Jeff Mielke. Bunched-retroflex variation in acquisition and sound change (poster). LSA 13 Workshop: Variation in the acquisition of sound systems, 2013
- Sonia Pritchard and Jeff Mielke. Bulgarian palatalized consonants: a phonetics/phonology mismatch. The 21st Manchester Phonology Meeting, 2013
- Jeff Mielke and Christopher Carignan. Ultrasound+corpus study of phonetically-motivated variation in north american french and english. Ultrafest VI, University of Edinburgh, 2013
- Jeff Mielke and Will Dalton. Many-to-one articulatory-acoustic mappings in Canadian French vowels. Ultrafest VI, University of Edinburgh, 2013
- Jeff Mielke, Kuniko Nielsen, and Lyra Magloughlin. Phonetic imitation by individuals with autism spectrum disorders: Investigating the role of procedural and declarative memory. 21st International Congress on Acoustics/165th meeting of the Acoustical Society of America/52nd meeting of the Canadian Acoustical Association, Montreal, 2013

- Jeff Mielke, Kuniko Nielsen, and Lyra Magloughlin. VOT imitation by neurotypicals and individuals with autism spectrum disorders (poster). LSA 13 Workshop: How the brain accommodates variability in linguistic representations, 2013
- 2012 Alejandrina Cristià, Amanda Seidl, Jeff Mielke, Robert Daland, Emmanuel Dupoux, and Sharon Peperkamp. Infants' contribution to the stability of patterns involving natural sound classes. Second Conference on Sound Change, Munich, 2012
- Jeff Mielke. Individual articulatory differences in sound change: bunched and retroflex rhotics in French and English. Conference on Sources of Individual Linguistic Differences, Ottawa, 2012
- Jeff Mielke. Bunched and retroflex vowels in Canadian French. LabPhon 13, Stuttgart, 2012
- Jeff Mielke. Ultrasound and corpus study of a change from below: vowel rhoticity in Canadian French. *New Ways of Analyzing Variation (NWAV)* 41, Bloomington, 2012
- Jeff Mielke, Lyra Magloughlin, and Kuniko Nielsen. Investigating aq score as a factor in phonetic imitation (poster). Conference on Sources of Individual Linguistic Differences, Ottawa, 2012
- Jeff Mielke, Kuniko Nielsen, and Lyra Magloughlin. Individual differences in phonetic imitation: investigating the role of autism spectrum disorders and autistic-like traits (poster). LabPhon 13, Stuttgart, 2012
- 2011 Diana Archangeli, Jeff Mielke, and Douglas Pulleyblank. From sequence frequencies to conditions in bantu vowel harmony. *Phonology in the 21st Century: In Honor of Glyne Piggott*, 2011
- Adam Baker, Diana Archangeli, and Jeff Mielke. English s-retraction and the actuation problem. Joint ASU/UofA Workshop on Factors in Language Variation and Change, 2011
- Reza Falahati and Jeff Mielke. An ultrasound study of coronal stop deletion in persian. *Acoustics Week in Canada*, Québec City, 2011
- Jeff Mielke. Large scale accessories for large scale phonetics research (poster). *New Tools and Methods for Very-Large-Scale Phonetics Research*, Philadelphia, 2011
- Jeff Mielke. An articulatory study of rhotic vowels in Canadian French. *Acoustics Week in Canada*, Québec City, 2011
- Jeff Mielke. An ultrasound study of Canadian French rhotic vowels (poster). *Journal of the Acoustical Society of America*, 2011
- 2010 Alejandrina Cristià, Jeff Mielke, and Sharon Peperkamp. Phonetic features guide phonotactic generalizations in perception (poster). 160th meeting of the Acoustical Society of America, Cancún, 2010

- Jeff Mielke. A feature-learning algorithm. Canadian Linguistics Association, Montréal, 2010
- Jeff Mielke. Re-combining phonetic and phonological similarity (poster). LabPhon 12, Albuquerque, 2010
- Jeff Mielke. The frequency of segmental alternations: implications for sociolinguistic variation (poster). New Ways of Analyzing Variation (NWAV) 39, San Antonio, 2010
- 2009 Jeff Mielke. A phonetically-based phonetic similarity metric. 40th meeting of the North East Linguistic Society (NELS), MIT, 2009
- Jeff Mielke and Elizabeth Hume. Tones and Features: A Symposium in Honor of G. Nick Clements, 2009
- Jeff Mielke and Joseph Roy. Measuring articulatory similarity with algorithmically reweighted principal component analysis (poster). Journal of the Acoustical Society of America, 2009
- 2008 Jeff Mielke. Phonologization and the typology of feature behaviour. Symposium on Phonologization, University of Chicago, 2008
- Jeff Mielke. Learning phonological features from different kinds of evidence. Bilingual Workshop in Theoretical Linguistics/Atelier bilingue de linguistique théorique (BWTL/ABLT) 12, Ottawa, 2008
- Jeff Mielke and Joseph Roy. Phonetic similarity in ultrasound: Comparing deterministic, statistical, and information-theoretic approaches. Montréal-Ottawa-Toronto Phonology Workshop, McGill, 2008
- Jeff Mielke and Joseph Roy. Statistical and information-theoretic techniques in the adduction of latent phonetic structure within ultrasound data (poster). Canadian Linguistics Association, Vancouver, 2008
- Kenneth S. Olson and Jeff Mielke. Acoustic properties of the interdental approximant in kagayanen. Journal of the Acoustical Society of America, 2008
- 2007 Diana Archangeli and Jeff Mielke. Sound pattern research: new techniques. “New Techniques in Sound Pattern Research” workshop, Linguistic Society of America Summer Institute, Stanford, 2007
- Adam Baker, Jeff Mielke, and Diana Archangeli. More velar than /g/: consonant coarticulation as a cause of diphthongization. 26th West Coast Conference on Formal Linguistics (WCCFL), Berkeley, 2007
- Ying Lin and Jeff Mielke. Discovering manner and place features - what can be learned from acoustic and articulatory data? Penn Linguistics Colloquium, 2007
- Kenneth S. Olson and Jeff Mielke. Acoustic properties of the kagayanen vowel space. 16th International Congress of Phonetic Sciences, Saarbrücken, 2007

- Ying Lin and Jeff Mielke. A probabilistic clustering approach to feature induction. “Where do features come from?” workshop, Paris (poster), 2007
- Scott Mackie and Jeff Mielke. Testing the limits of feature economy. “Where do features come from?” workshop, Paris, 2007
- Jeff Mielke. Are we looking at the same thing? (ultrasound images across laboratories). Ultrafest 4, NYU, 2007
- Jeff Mielke. Unnatural classes and the class-pattern connection. Montréal-Ottawa-Toronto Phonology Workshop, Ottawa, 2007
- Jeff Mielke. Different features have different origins: evidence from a database of synchronic patterns. “Where do features come from?” workshop, Paris, 2007
- Jeff Mielke and Joseph Roy. Ultrasound in a model of phonetic similarity. Ultrafest 4, NYU, 2007
- Kenneth S. Olson and Jeff Mielke. Articulation of the kagayanen interdental approximant: An ultrasound study. 2007 Annual Meeting of the Linguistic Society of America, Anaheim, 2007
- 2006 Diana Archangeli, Alina Twist, and Jeff Mielke. Are ‘covert’ /ɪ/ allophones really indistinguishable? *New Ways of Analyzing Variation (NWAV)* 35, Columbus, 2006
- Adam Baker, Jeff Mielke, and Diana Archangeli. Top-down and bottom-up influences in english s-retraction. *New Ways of Analyzing Variation (NWAV)* 35, Columbus, 2006
- Ying Lin and Jeff Mielke. Learning place and manner features from acoustic and articulatory data (abstract). *Journal of the Acoustical Society of America*, 2006
- Jeff Mielke, Adam Baker, and Diana Archangeli. Covert /ɪ/ allophony in english: variation in a socially uninhibited sound pattern. *LabPhon* 10, Paris, 2006
- Adam Baker, Jeff Mielke, and Diana Archangeli. Probing the big bang with ultrasound: /s/ retraction in english. 2006 Annual Meeting of the Linguistic Society of America, Albuquerque, 2006
- Jeff Mielke, Adam Baker, and Diana Archangeli. Forever young: Inaudible /ɪ/ allophony resists conventionalization. 2006 Annual Meeting of the Linguistic Society of America, Albuquerque, 2006
- 2005 Bryan Meadows, Gwanhi Yun, Diana Archangeli, Jeff Mielke, and Elizabeth Lukes. Pedagogical implications of ultrasound technology in the second language acquisition of english by native korean speakers. *Linguistics Association of the Southwest (LASSO)* 2005, Lubbock, 2005
- Jeff Mielke. Modeling distinctive feature emergence. 24th West Coast Conference on Formal Linguistics (WCCFL), Simon Fraser University, 2005

- Jeff Mielke. A simulation of the role of phonetics in the emergence of phonological natural classes. Linguistics Association of the Southwest (LASSO) 2005, Lubbock, 2005
- Jeff Mielke. Emergent feature theory. 41st meeting of the Chicago Linguistic Society (CLS), 2005
- Jeff Mielke. The emergence of (un)natural classes. Generative Linguistics in the Old World (GLOW) Phonology Workshop, Geneva, 2005
- Adam Baker, Jeff Mielke, and Diana Archangeli. Tracing the tongue surface with heurdetect/using scan lines to make accurate time measurements. Ultrafest 3, Tucson, 2005
- Bryan Meadows, Gwanhi Yun, Diana Archangeli, Jeff Mielke, and Elizabeth Lukes. Pedagogical implications of ultrasound technology in the ESL classroom. Ultrafest 3, Tucson, 2005
- Jeff Mielke, Adam Baker, and Diana Archangeli. An ultrasound study of excrescent schwa before /r/ and /l/ in English. Ultrafest 3, Tucson, 2005
- Jeff Mielke, Adam Baker, Diana Archangeli, Peter Richtsmeier, and Sumayya Racy. Aligning tongues and palates with palatron. Ultrafest 3, Tucson, 2005
- 2004 Jeff Mielke. Accepting unlawful variation and unnatural classes: a model of phonological generalization. Variation in Phonology conference, Potsdam. 17-42, 2004
- Jeff Mielke. What ambivalent segments can tell us about the universality of distinctive features. 2004 Annual Meeting of the Linguistic Society of America, Boston, 2004
- Jeff Mielke. Moving beyond innate features: a unified account of natural and unnatural classes. 35th meeting of the North East Linguistic Society (NELS), University of Connecticut, 2004
- Jeff Mielke. Emergent features: evidence from natural classes in 561 languages. 2004 Western Conference on Linguistics (WECOL), University of Southern California, 2004
- Jeff Mielke, Mike Armstrong, and Elizabeth Hume. Reanalyzing allophonic opacity in Sea Dayak & Canadian English. 2004 Annual Meeting of the Linguistic Society of America, Boston, 2004
- 2003 Jeff Mielke. Ambivalent segments. 9th Mid-Continental Workshop on Phonology, Urbana-Champaign, 2003
- Jeff Mielke. The diachronic influence of perception: Experimental evidence from Turkish. 29th meeting of the Berkeley Linguistics Society, 2003
- Jeff Mielke, Mike Armstrong, and Elizabeth Hume. Reanalyzing allophonic opacity. 9th Mid-Continental Workshop on Phonology, Urbana-Champaign, 2003

- Jeff Mielke and Amanda Reiter. Stop-stop assimilation in American English connected speech. 2003 Buckeye Language Processing Conference, Columbus, 2003
- Jeff Mielke. How to explain natural classes without universal distinctive features. Montréal-Ottawa-Toronto Phonology Workshop, Toronto, 2003
- Jeff Mielke and Andrea Sims. Step forward if you are always marked. . . not so fast, [Labial]. Montréal-Ottawa-Toronto Phonology Workshop, Toronto, 2003
- 2002 Jeff Mielke. Testing the p-map hypothesis (poster). LabPhon 8, New Haven, 2002
- Jeff Mielke. Interplay between perceptual salience and contrast: /h/ perceptibility in Turkish, Arabic, English, and French. Second International Conference on Contrast in Phonology, Toronto, 2002
- 2002 Jeff Mielke and Andrea Sims. Unmarked labials and optimality theory. 4th International Phonology Meeting of The Research Group (GDR) in Phonology of the French National Center for Scientific Research (CNRS), Grenoble, 2002
- Jeff Mielke. The cognitive reality of speech perception: evidence from speech production. 4th International Phonology Meeting of The Research Group (GDR) in Phonology of the French National Center for Scientific Research (CNRS), Grenoble, 2002
- Jeff Mielke. Does speech perception influence phonology directly or indirectly? (poster). OSU CogFest, Columbus, 2002
- Jeff Mielke. Formalizing the perception-phonology interaction: looking for evidence of the p-map in speech style variation. Montréal-Ottawa-Toronto Phonology Workshop, Montréal, 2002
- 2001 Jeff Mielke. Turkish /h/ deletion: evidence for the interplay of speech perception and phonology. 32nd meeting of the North East Linguistic Society (NELS), New York, 2001
- Jeff Mielke. Turkish /h/ deletion: evidence for the interplay of speech perception and phonology. Conference On The Phonetics-Phonology Interface, Berlin, 2001
- Jeff Mielke and Elizabeth Hume. Considerations of word recognition for metathesis. Surface Syllable Structure and Segment Sequencing (S5) workshop, Leiden, and the Montréal-Ottawa-Toronto Phonology Workshop, Ottawa, 2001
- Jeff Mielke. Perception in phonology: the case of Turkish [h] deletion. 37th meeting of the Chicago Linguistic Society (CLS), 2001
- 2000 Jeff Mielke. Explaining directional asymmetry in Turkish [h] deletion: A crosslinguistic study of perceptibility. 6th Mid-Continental Workshop on Phonology, Columbus, 2000

Jeff Mielke and Georgios Tserdanelis. Directional asymmetry in repair strategy application. 6th Mid-Continental Workshop on Phonology, Columbus, 2000

Jeff Mielke. The role of perceptibility in Turkish [h] deletion: A crosslinguistic study of perceptibility. Montréal-Ottawa-Toronto Phonology Workshop, Toronto, 2000