

**Patricia A. Keating**  
**June 2022**

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**EDUCATION:**

1974: B.A. with honors, Wellesley College  
1976: M.A. in Linguistics, Brown University  
1980: Ph.D. in Linguistics, Brown University. Dissertation: "A Phonetic Study of a Voicing Contrast in Polish" (filed in 1979), Sheila Blumstein, supervisor

**PROFESSIONAL EXPERIENCE:**

1976-1979: Research assistant in the Brown University Phonetics Laboratory working for P. Lieberman on child speech  
Spring, 1977: Teaching Associate, Brown University  
Summers, 1977,1978: Instructor of English, Brown University Summer Program in English as a Foreign Language  
July 1979-June 1981: Post-doctoral fellow in the Speech Communication group of the Research Laboratory of Electronics, MIT  
July 1980-June 1985: Assistant Professor of Linguistics, UCLA; on leave July 1980-1981  
Summer 1983: Faculty, LSA Summer Institute at UCLA  
July 1985-June 1991: Associate Professor of Linguistics, UCLA  
July 1991-June 2022: Professor of Linguistics, UCLA  
Summer 1991: Faculty, LSA Summer Institute at UC Santa Cruz  
1996-2000: Consultant, USC dyslexia project (F. Manis, PI)  
Summer 1996: Faculty, Girona International Summer School of Linguistics  
Summer 1997: Faculty, LSA Summer Institute at Cornell  
Summer 1998: Faculty, Netherlands Graduate School in Linguistics (LOT)  
Summer 2013: Faculty, LSA Summer Institute at University of Michigan  
July 2018-June 2022 : Chair, Department of Linguistics

**HONORS, AWARDS, GRANTS:**

1974: Phi Beta Kappa  
1974: Brown University Fellowship  
1979-1981: NIH Individual National Research Service Award  
1984: UCLA Career Development Award  
1985-1988: NSF grant, "Coarticulation and Autosegmental Theory"  
1986: UCLA Alumni Association Distinguished Teaching Award  
1986-1987: UCLA nominee for national Professor of the Year (Council for Advancement and Support of Education)  
1987-1988: NSF Research Experiences for Undergraduates supplement  
1989-2000: NIDCD Training Program in Phonetics and Speech (co-PI)  
1992-93: NSF Dissertation Research Grant (with Dani Byrd)  
1993-1994: LDC contract, "Pilot Study for Phonetic Transcription"

1995: NSF Dissertation Research Grant (with Richard Wright)  
 1995-1999: NSF grant, “Effects of Prosodic Position on Consonant Articulation”  
 1997: NSF Research Experiences for Undergraduates supplement  
 1998-2003: NSF grant, “KDI: Segmental and Prosodic Optical Phonetics for Human and Machine Speech Processing” (co-PI)  
 2000-2001: NSF Dissertation Research Grant (with Taehong Cho)  
 2002-2007: NIH grant, “Bases of Normal and Disordered Reading” (co-PI)  
 2004: Elected Fellow of the Acoustical Society of America  
 2006: NSF Dissertation Research Grant (with Kuniko Nielsen)  
 2007-2012: NSF grant, “Production and perception of linguistic voice quality”  
 2010-2015: NSF grant, “A new voice source model: From glottal areas to better speech synthesis” (Abeer Alwan, PI)  
 2014: Elected Fellow of the Linguistic Society of America (class of 2015)  
 2014-2017: NSF grant, “EAGER: Variance and invariance in voice quality” (Abeer Alwan, PI)  
 2015-2019: President of the International Phonetic Association  
 2017-2023: NSF grant, “RI: Medium: Collaborative Research: Variance and invariance in voice quality: Implications for machine and human speaker identification (Abeer Alwan, PI)

#### **SELECTED PROFESSIONAL SERVICE:**

1986,1987: Membership Committee, Linguistic Society of America  
 1988-1994: Co-editor, *Phonetics and Phonology* series, Academic Press  
 1989,1990: Associate Editor, *Language*  
 1990-1992: National Science Foundation Linguistics Advisory Panel  
 1990-1991: Organizer, Third Conference on Laboratory Phonology  
 1991-2000: Standing committee to organize Conferences in Lab. Phonology (chair, 1998-2000)  
 1991-1995: Editorial board, *Phonology*  
 1995-various: Judge of student posters, Acoustical Society of America  
 1997-98: Scientific Committee, ESCA workshop “Modeling Pronunciation Variation for Automatic Speech Recognition”  
 May 1998: Represented Linguistic Society of America at 4th annual Coalition for National Science Funding Exhibition and Reception for Members of Congress (in Washington DC)  
 1998-99: UC Advisory Committee for XIV International Congress of Phonetic Sciences (San Francisco, August 1999)  
 August 1999: External review committee for NSF programs in Cognitive, Psychological, and Language Sciences (Div. of Behavioral and Cognitive Sciences)  
 1999-2002: Technical Committee, Speech Communication, Acoustical Society of America; founding chair of Stetson Award sub-committee  
 2000-2005: Editorial board, *Oxford Studies in Theoretical Linguistics*  
 2003-various: (Co-)Organized special sessions at Acoustical Society of America meetings  
 2003-2023: Elected member of the Council of the IPA, 4-year terms  
 2008-2010: Association for Laboratory Phonology Organizers Committee  
 2011-2012: LSA ad-hoc Professional Outreach Committee  
 2011-2015: Secretary of the International Phonetic Association  
 May 2012: Organized judging of student posters at Acoustical Society of America meeting  
 2012-2014: Member of “Keys to Voice Studies” UC Multi-campus Research Group in the Humanities (PIs Nina Sun Eidsheim, Musicology, UCLA, and Annette Schlichter, English and Comparative Literature, UC Irvine)

Since 2014: Reviewer for WCCFL, Interspeech, LabPhon, ICPhS; for Cambridge University Press; for *Journal of the Acoustical Society of America*, *Journal of the IPA*, *Journal of Phonetics*, *Phonetica*, *Phonology*, *Laboratory Phonology*, *Journal of Speech Language and Hearing Research*, *Language and Speech*; for Volkswagon Foundation, Marsden Fund, National Science Foundation

January 2014: Invited presentation on “Phonetics in 1924” in the 90th birthday symposium of the Linguistic Society of America at the Annual Meeting

April 2014: Organized World Voice Day outreach events at UCLA

2015: Interviewed for article in *ASHA Leader*

2015-2019: President of the IPA, chair of the committee on Alphabet Charts and Fonts

2015-2023: Member of the Permanent Council for the Organization of the International Congress of Phonetic Sciences

April 2017: Review panel for NSF (Computational Cognition)

November 2017: External review team for U Pennsylvania Department of Linguistics

May 2018: Interviewed for article in *NY Times*

September 2019: Committee of Visitors, NSF Behavioral and Cognitive Sciences

### UNIVERSITY SERVICE:

1987-1992: Interdepartmental Committee for Applied Linguistics

1987-1988: Provost's 5-year review of Dean of Humanities

1987-1988: Faculty Career Development Awards Committee

1987-1989: Academic Senate Committee on Academic Freedom

1989-current: Various ad-hoc personnel Review Committees for CAP

1992: Search Committee for Director of Humanities Computing

1994: publicity video for Office of Academic Computing

1995: interview for UCLA *Challenge* magazine

1995-1999: Chair, (Humanities) Dean's Advisory Committee on Technology; *ex officio* member of several related committees

1996-98: Academic Senate Committee on Teaching

1996-2000: Interdepartmental Program in Biomedical Engineering

2004, 2010: Committee on Research grant application reviewer

2004-2008: Faculty Committee on Educational Technology (chair, 2005-08)

2006: interview for UCLA College Report

2008: Humanities Dean's Taskforce on Center for Digital Humanities

2008-2011: Information Technology Planning Board

2009-2010: Institute for Social Research Advisory Committee

2014-2015: Faculty Mentor Program for the Regents Scholar Society

### SELECTED DEPARTMENT SERVICE:

1981-2022: Various ad-hoc search and personnel committees

1981-1986: Undergraduate adviser

1982-various: Several UCLA Instructional Development Mini-grants

1985: UCLA Project Advance gift of IBM PC-XT computers, etc. for undergraduate phonetics instruction (\$20,000)

1985: Initiated and developed undergraduate Internship Program

1986-1988: Chair, Teaching Evaluation Committee

1989-various: Admissions Committee (chair, 2012-13, 2014-15, 2017-18)

1989-various: Merit Review Committee (chair, 2006-07, 2008-09, 2019)

<b>1991-current:</b>	<b>Director, Phonetics Laboratory</b>
1997-2014:	First-year graduate student advisor
2001-2004:	Colloquium Committee faculty advisor
2004:	Organized Phonetics Lab tour for Friends of Linguistics
2006:	Co-organized memorial service etc. for Peter Ladefoged
2006-2007:	Chair, Temporary Faculty hiring committee
2007-2010:	Student Research Support committee/Ladefoged Scholarship committee
2007:	Ad-hoc Dossier Preparation committee
2015-2018:	Faculty mentor
2018-2022:	Department chair
2018-2022:	Chair, Teaching Evaluation Committee

### **COURSES TAUGHT:**

Fiat Lux undergraduate seminar: The Science of the Singing Voice  
Fiat Lux undergraduate seminar: Research on Linguistic Voice Quality  
Fiat Lux undergraduate seminar: Sacred Harp Singing School  
Freshman Seminar: Introduction to Speech Technology  
Honors Collegium: The Science of the Singing Voice (undergraduate)  
Introduction to Linguistics (undergraduate)  
Introduction to General Phonetics (undergraduate)  
Experimental Phonetics (undergraduate/graduate)  
Phonology I (undergraduate)  
Phonology II (undergraduate)  
Child Language Acquisition (undergraduate)  
Survey of Phonetic Theory (graduate)  
Speech Production (graduate)  
Graduate Proseminar: Phonetics of Syllables and Stress  
Graduate Proseminar: Aerodynamic Modeling  
Graduate Proseminar: Child Speech Development  
Graduate Proseminar: Phonetic Rules  
Graduate Proseminar: Vowel Perception  
Graduate Proseminar: Phonetic Features  
Graduate Proseminar: Acoustic phonetics of English/TIMIT Database  
Graduate Proseminar: Electropalatography  
Graduate Proseminar: Prosodic effects on articulation  
Graduate Proseminar: Speech production  
Graduate Proseminar: Readings in Laboratory Phonology  
Graduate Proseminar: Electroglottography  
Graduate Proseminar: Speech Perception  
Graduate Proseminar: Large-scale acoustic phonetic analysis in studies of linguistic voice quality

### **PH.D. RECIPIENTS SUPERVISED** (all at UCLA):

J. Forrest Fordyce, Linguistics, 1988, “Studies in sound symbolism with special reference to English”  
M. L. Scott, Applied Linguistics, 1988, “Younger and older adult second language learners: A comparison of auditory memory and perception”  
M. K. Huffman, Linguistics, 1989, “Implementation of Nasal: timing and articulatory landmarks”  
A. Cohn, Linguistics, 1990, “Phonetic and phonological rules of nasalization” (co-chair with B. Hayes)

- †J. D. Choi, *Linguistics*, 1992, “Phonetic underspecification and target-interpolation: An acoustic study of Marshallese” (co-chair with B. Hayes)
- Y. Todaka, *Applied Linguistics*, 1993, “A cross-language study of voice quality”
- D. Byrd, *Linguistics*, 1994, “Articulatory timing in English consonant sequences”
- S. B. Inouye, *Linguistics*, 1995, “Trills, Taps and Stops in Contrast and Variation”
- R. Wright, *Linguistics*, 1996, “Consonant clusters and cue preservation in Tsou”
- B. Blankenship, *Linguistics*, 1997, “The timecourse of breathiness and laryngealization in vowels”
- †S. Hess, *Linguistics*, 1998, “Pharyngeal articulations” (co-chair with I. Maddieson)
- T. Cho, *Linguistics*, 2001, “Effects of Prosody on Articulation in English”
- M. Epstein, *Linguistics*, 2002, “Voice Quality and Prosody in English” (co-chair with J. Kreiman)
- R. B. Scarborough, *Linguistics*, 2004, “Coarticulation and the structure of the lexicon”
- Y. Lin, *Linguistics*, 2005, “Learning Features and Segments from Waveforms: A Statistical Model of Early Phonological Acquisition” (co-chair with E. Stabler)
- C. Esposito, *Linguistics*, 2006, “The effects of linguistic experience on the perception of phonation” (co-chair with J. Kreiman)
- K. Y. Nielsen, *Linguistics*, 2008, “Word-level and Feature-level Effects in Phonetic Imitation”
- M. Garellek, *Linguistics*, 2013, “Production and Perception of Glottal Stops”
- J. Kuang, *Linguistics*, 2013, “Phonation in tonal contrasts”
- G. Kuo, *Linguistics*, 2013, “Perception and Acoustic Correlates of the Taiwanese Tone Sandhi Group”
- M. Yang, *Linguistics*, 2019, “Cue Integration and Contrast Shifts: Experimental and Typological Studies”

## AREAS OF RESEARCH:

Experimental and theoretical phonetics  
 Laboratory phonology  
 Voice quality

## PUBLICATIONS IN BOOKS AND JOURNALS

(reverse chronological order, complete from 2012; before 2012 = selected papers only;  
 for complete listing see <http://www.linguistics.ucla.edu/people/keating/keating.htm> )

- A. Chong, M. Risdal, A. Aly, J. Zymet, **P. Keating**: “Effects of consonantal constrictions on voice quality”, *J. Acoust. Soc. Am.* 148: EL65–EL71
- Y. Lee, **P. Keating**, J. Kreiman: “Acoustic voice variation within and between speakers”, *J. Acoust. Soc. Am.* 146: 1568-1579 (2019)
- **P. Keating**, D. Wymark, R. Sharif: “Proposal for superscript diacritics for prenasalization, preglottalization, and preaspiration”, published May 27 in online First View, *Journal of the IPA* (2019); “Corrigendum” published online October 8
- S. Park, G. Yeung, N. Vesselinova, J. Kreiman, **P. Keating**, A. Alwan: “Towards understanding speaker discrimination abilities in humans and machines for text-independent short utterances of different speech styles”, *J. Acoust. Soc. Am.* 144.1: 375-386 (2018)
- J. Kuang, **P. Keating**: “Vocal fold vibratory patterns in tense versus lax phonation contrasts”, *J. Acoust. Soc. Am.* 136: 2784–2797 (2014)
- M. Garellek, C. M. Esposito, **P. Keating**, J. Kreiman: “Voice quality and tone identification in White Hmong”, *J. Acoust. Soc. Am.* 133: 1078-1089 (2013)
- **P. Keating**, “Ladefoged, Peter”, in *Encyclopedia of Applied Linguistics*, edited by Carol A. Chapelle. John Wiley and Sons (2013)
- **P. Keating** and G. Kuo: “Comparison of speaking fundamental frequency in English and Mandarin” *J. Acoust. Soc. Am.* 132: 1050-1060 (2012)

- J. Bishop and **P. Keating**: “Perception of pitch location within a speaker’s range: fundamental frequency, voice quality and speaker sex”, *J. Acoust. Soc. Am.* 132: 1100-1112 (2012)
- M. Garellek and **P. Keating**: “The acoustic consequences of phonation and tone interactions in Jalapa Mazatec”, *Journal of the IPA* 41: 185-205 (2011)
- T. Cho and **P. Keating**: “Effects of initial position versus prominence in English”, *J. Phonetics* 37: 466-485 (2009)
- R. Scarborough, **P. Keating**, S. Mattys, T. Cho, A. Alwan: “Optical Phonetics and Visual Perception of Lexical and Phrasal Stress in English”, *Language and Speech* 51: 135-175 (2009)
- **P. Keating**: “Phonetic Encoding of Prosodic Structure”, in *Speech production: Models, phonetic processes, and techniques*, edited by J. Harrington & M. Tabain, pp. 167-186. Macquarie Monographs in Cognitive Science, Psychology Press, New York and Hove (2006)
- **P. Keating**, T. Cho, C. Fougeron, and C. Hsu: “Domain-initial articulatory strengthening in four languages”, in *Phonetic Interpretation (Papers in Laboratory Phonology 6)*, edited by J. Local, R. Ogden, R. Temple, pp. 143-161. Cambridge University Press (2003)
- T. Cho, **P. Keating**: “Articulatory and acoustic studies on domain-initial strengthening in Korean”, *J. Phonetics* 29, 155-190 (2001)
- M. Joanisse, F. Manis, **P. Keating**, M. Seidenberg: “Language Deficits in Dyslexic Children: Speech Perception, Phonology and Morphology”, *J. Expt. Ch. Psych.* 77: 30-60 (2000)
- C. Fougeron and **P. A. Keating**: “Articulatory strengthening at edges of prosodic domains”, *Journal of the Acoustical Society of America* 101: 3728-3740 (1997)
- **P. A. Keating**: “The Phonology-Phonetics Interface”, in *Interfaces in Phonology*, edited by U. Kleinhenz , pp. 262-278, Studia grammatica 41, Akademie Verlag, Berlin (1996)
- **P. A. Keating**, B. Lindblom, J. Lubker, & J. Kreiman: “Variability in jaw height for segments in English and Swedish VCVs”, *Journal of Phonetics* 22: 407-422 (1994)
- **P. A. Keating** (ed.): *Phonological Structure and Phonetic Form: Papers in Laboratory Phonology III*, Cambridge U. Press (1994)
- **P. A. Keating**: “Phonetic representations in a generative grammar”, *Journal of Phonetics* 18: 321-334 (1990)
- **P. A. Keating**: “The window model of coarticulation: articulatory evidence”, in *Papers in Laboratory Phonology I* , ed. J. Kingston & M. Beckman, Cambridge University Press, pp. 451-470 (1990)
- **P. A. Keating**: “Underspecification in phonetics”, *Phonology* 5.2: 275-292 (1988)
- **P. A. Keating**: “The Phonology-Phonetics Interface”, in *Linguistics: The Cambridge Survey, Volume I: Grammatical Theory* , ed. F. Newmeyer, Cambridge University Press, pp. 281-302 (1988)
- J. R. Westbury & **P. A. Keating**: “On the naturalness of stop consonant voicing”, *Journal of Linguistics* 22: 145-166 (1986)
- **P. A. Keating**: “Universal phonetics and the organization of grammars”, *Phonetic Linguistics*, ed. V. Fromkin, Academic Press, pp. 115-132 (1985)
- **P. A. Keating**: “Phonetic and phonological representation of stop consonant voicing”, *Language* 60.2: 286-319 (1984)
- **P. A. Keating**, M. J. Mikos, & W. F. Ganong III: “A cross-language study of range of voice onset time in the perception of initial stop voicing”, *Journal of the Acoustical Society of America* 70.5: 1261-1271 (1981)

## CONFERENCE AND WORKING PAPERS

(complete from 2012; before 2012 = selected papers only;

for complete listing see <http://www.linguistics.ucla.edu/people/keating/keating.htm> )

- **P. Keating**, J. Kreiman, A. Alwan: “A new speech database for within- and between-speaker variability”, *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019*, ed.

Calhoun et al. (pp. 736-739), Canberra, Australia: Australasian Speech Science and Technology Association Inc. (2019)

- S. Park, G. Yeung, J. Kreiman, **P. Keating**, A. Alwan: “Using Voice Quality Features to Improve Short-Utterance, Text-Independent Speaker Verification Systems”, ISCA Archive for Interspeech 2017, Stockholm, pp. 1522-1526 (2017)
- S. Park, C. Sigouin, J. Kreiman, **P. Keating**, J. Guo, G. Yeung, F. Kuo, A. Alwan: “Speaker Identity and Voice Quality: Modeling Human Responses and Automatic Speaker Recognition”, ISCA Archive for Interspeech 2016, San Francisco, pp. 1044-1048 (2016)
- A. Toutios, S. Lingala, C. Vaz, J. Kim, J. Esling, **P. Keating**, M. Gordon, D. Byrd, L. Goldstein, K. Nayak, S. Narayanan: “Illustrating the Production of the International Phonetic Alphabet Sounds using Fast Real-Time Magnetic Resonance Imaging”, ISCA Archive for Interspeech 2016, San Francisco, pp. 2428-2432 (2016)
- J. Kreiman, S. Park, **P. Keating**, A. Alwan: “The relationship between acoustic and perceived intraspeaker variability in voice quality”, ISCA Archive for Interspeech 2015, 16th Annual Conference of the International Speech Communication Association, Dresden, Germany (2015)
- **P. Keating**, M. Garellek, J. Kreiman: “Acoustic properties of different kinds of creaky voice”, *Proceedings of the 18th International Congress of Phonetic Sciences*. Glasgow, UK: the University of Glasgow (2015)
- M. Garellek, **P. Keating** & C.M. Esposito: “Relative importance of phonation cues in White Hmong tone perception”, *Proceedings of BLS 38*, 179-189 (2014)
- J. Kuang, **P. Keating**: “Glottal articulations of phonation contrasts and their acoustic and perceptual consequences”, *UCLA Working Papers in Phonetics* 111, 123-161 (2012)
- M. Garellek, **P. Keating** & C.M. Esposito: “Relative importance of phonation cues in White Hmong tone perception”, to appear in *Proceedings of BLS 38*, 179-189 (2014)
- M. Garellek, C. Esposito, **P. Keating**, J. Kreiman: “Perception of spectral slopes and tone identification in White Hmong”, *UCLA Working Papers in Phonetics* 110, 24-45 (2012)
- **P. Keating**, C. Esposito, M. Garellek, S. Khan and J. Kuang: “Phonation contrasts across languages”, *Proceedings of the 17th International Congress of Phonetic Sciences*, 1046-1049 (2011)
- Y.-L. Shue, **P. Keating**, C. Vicenik, K. Yu: “VoiceSauce: A program for voice analysis”, *Proceedings of the 17th International Congress of Phonetic Sciences*, 1846-1849 (2011)
- **P. Keating** and S. Shattuck-Hufnagel, “A Prosodic View of Word Form Encoding for Speech Production”, *UCLA Working Papers in Phonetics* 101, 112-156 (2002)

**UNPUBLISHED CONFERENCE AND COLLOQUIUM PRESENTATIONS from 2012 (chronological order) (for complete listing see <http://www.linguistics.ucla.edu/people/keating/keating.htm> )**

- “Relative importance of phonation cues in White Hmong tone perception” (Garellek, Keating, Esposito), talk at Berkeley Linguistic Society 38, Feb. 2012
- “Fundamental frequency in English and Mandarin: Production and perception”, invited talk, Institute of Linguistics, Academia Sinica, Taipei, Taiwan, May 2012
- “Multi-dimensional phonetic space for phonation contrasts”, invited talk, National Chiao Tung University, Hsinchu, Taiwan, May 2012
- “Phonation in Nine Languages” (Keating, Kuang, Esposito, Garellek, Khan), poster presented at the Spring meeting of the Acoustical Society of America in Hong Kong, May 2012
- “Relative role of pitch vs. phonation cues in White Hmong tone identification” (Garellek, Esposito, Keating, Kreiman), poster presented at the Spring meeting of the Acoustical Society of America in Hong Kong, May 2012
- “Multi-dimensional phonetic space for phonation contrasts” (Keating, Kuang, Esposito, Garellek, Khan), poster presented at LabPhon13 in Stuttgart, Germany, July 2012

- “Glottal articulations in tense vs. lax phonation contrasts” (Kuang, Keating), talk in special session at the Fall Meeting of the Acoustical Society of America in San Francisco, December 2013
- “Phonetics in 1924”, invited talk in the 90th birthday symposium at the Annual Meeting of the Linguistic Society of America in Minneapolis MN, Jan. 2014; also at UC Berkeley Phorum, March 2014 (See <http://www.linguisticsociety.org/content/2014-annual-meeting-90th-anniversary-presentation-materials>.)
- “Linguistic voice quality”, invited departmental colloquium at UC Berkeley in March 2014, U. Michigan in October 2014, Cornell U. in March 2015, McGill U. in April 2016
- “Acoustic measures of falsetto voice”, poster presented at the Spring meeting of the Acoustical Society of America in Providence, May 2014
- “Sheila Blumstein: A career overview”, invited talk at the workshop “Speech and language processing” in Gloucestershire, UK in August 2014.
- “Acoustic analysis of creaky voice” (Keating, Garellek), invited poster in special session on creaky voice at the Annual Meeting of the Linguistic Society of America in Portland, Jan. 2015
- “Phrase-final creak: articulation, acoustics, and distribution” (Garellek, Keating), invited talk in special session on creaky voice at the Annual Meeting of the Linguistic Society of America in Portland, Jan. 2015
- “Ken Stevens and linguistic phonetics”, invited talk in special session “Celebration of Kenneth N. Stevens’ Contributions to Speech Communication” at the Spring meeting of the Acoustical Society of America in Pittsburgh, May 2015
- “Within- and Between-Talker Variability in Voice Quality in Normal Speaking Situations” (Kreiman, Keating, Park, Rastifar, Alwan), poster presented at the Spring Meeting of the Acoustical Society of America in Pittsburgh, May 2015
- “Acoustic properties of different kinds of creaky voice” (Keating, Garellek, Kreiman), poster presented at ICPHS-2015 in Glasgow, August 2015
- “Voice quality variation within and across languages”, invited plenary talk at the Annual Meeting of the Linguistic Society of America in Washington DC, January 2016
- “The relationship between sonority and glottal vibration” (Risdal, Aly, Chong, Keating, Zymet), talk presented at CUNY Phonology Forum on Sonority, January 2016
- “Some factors affecting voice quality within and between speakers”, NYU colloquium March 2016
- “On the link between glottal vibration and sonority” (Risdal, Aly, Chong, Keating, Zymet), poster presented at LabPhon15 in Ithaca, July 2016
- “Acoustic similarity among female voices” (Keating and Kreiman), poster at Fall Acoustical Society of America meeting in Honolulu, Dec. 2016
- “Topics on creaky voice phonetics”, colloquium presented at Indiana University, Sept. 2017
- “Acoustic similarities among voices. Part 2: Male speakers” (Kreiman, Keating, Vesselinova), poster at Fall Acoustical Society of America meeting in New Orleans, Dec. 4 2017
- “The UCLA Speaker Variability Database” (Keating, Kreiman, Alwan), talk at the 19ème Colloque d'avril sur l'anglais oral de Villetaneuse, April 2018
- “Some challenges for the IPA from languages of China”, invited talk at 13th Phonetic Conference of China (PCC2018), Jinan University, Guangzhou, Nov. 2018
- “Voice quality variation within languages and across speakers”, invited talk at Jinan University, Nov. 2018
- “Phonation across languages”, colloquium presented at the U. of Oregon, May 2019
- “Flap articulation and lowered fourth formant” (Faytak Aziz, Barnett, Jo, Kuo, Teixeira, Wu, Zhou, Keating), poster at Fall Acoustical Society of America meeting in San Diego, Dec. 2019

## ONLINE MATERIALS USED OUTSIDE UCLA

“Production and Perception of Linguistic Voice Quality”: <http://www.phonetics.ucla.edu/voiceproject/voice.html>



(substantial archive of tools, recordings, and data from 5 year NSF-supported research project) (2014)

“VoiceSauce”: <http://www.phonetics.ucla.edu/voicesauce/documentation/index.html> (documentation for our popular program for acoustic voice analysis) (since 2011)

“D-prime (signal detection) analysis”: <http://www.linguistics.ucla.edu/faciliti/facilities/statistics/dprime.htm> (popular teaching resource) (2005)

“The UCLA Phonetics Lab”: <http://www.linguistics.ucla.edu/faciliti/uclaplalab.html> (especially, instructions for use of laboratory equipment)