

MARC GARELLEK

Department of Linguistics, University of California San Diego

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RESEARCH INTERESTS

Phonetics, laboratory phonology, voice

POSITIONS HELD

Associate Professor , UCSD Department of Linguistics	2017–present
Assistant Professor , UCSD Department of Linguistics	2013–2017
Affiliated Faculty , SDSU/UCSD Joint Doctoral Program in Language & Communicative Disorders	2016–present
Director , UCSD Phonetics Lab	2013–present

EDUCATION

Ph.D., Linguistics <i>University of California, Los Angeles</i> , Los Angeles, CA, USA Dissertation: Production and perception of glottal stops	2013
M.A., Linguistics <i>University of California, Los Angeles</i> , Los Angeles, CA, USA Thesis: The acoustics of coarticulated non-modal phonation	2010
B.A. with First-Class Honours, Linguistics <i>McGill University</i> , Montreal, QC, Canada	2008

REFEREED JOURNAL PUBLICATIONS

- Chong, A., & **M. Garellek**. (In press). Online perception of glottalized coda stops in American English. To appear in *Laboratory Phonology*.
- Seyfarth, S., **M. Garellek**, G. Gillingham, F. Ackerman, & R. Malouf. (2018). Acoustic differences in morphologically-distinct homophones. *Language, Cognition and Neuroscience*, 33(1): 32–49.
- Namboodiripad, S., & **M. Garellek**. (2017). Malayalam (Namboodiri Dialect). *Journal of the International Phonetic Association*, 47(1): 109–118.
- Garellek, M.**, A. Ritchart, & J. Kuang. (2016). Breathy voice during nasality: a cross-linguistic study. *Journal of Phonetics*, 59: 110–121.
- Gerratt, B. R., J. Kreiman, & **M. Garellek**. (2016). Comparing measures of voice quality from sustained phonation and continuous speech. *Journal of Speech, Language, and Hearing Research*, 59: 994–1001.
- Garellek, M.**, R. Samlan, B. R. Gerratt, & J. Kreiman. (2016). Modeling the voice source in terms of spectral slopes. *Journal of the Acoustical Society of America*, 139(3): 1404–1410.
- Kreiman, J., **M. Garellek**, G. Chen, A. Alwan, & B. R. Gerratt. (2015). Perceptual evaluation of voice source models. *Journal of the Acoustical Society of America*, 138(1): 1–10.
- Garellek, M.** (2015). Perception of glottalization and phrase-final creak. *Journal of the Acoustical Society of America*, 137(2): 822–831.
- Garellek, M.**, & J. White. (2015). Phonetics of Tongan stress. *Journal of the International Phonetic Association*, 45(1): 13–34.
- Garellek, M.** (2014). Voice quality strengthening and glottalization. *Journal of Phonetics*, 45(1): 106–113.
- Kreiman, J., B. R. Gerratt, **M. Garellek**, R. Samlan, & Z. Zhang. (2014). Toward a unified theory of voice production and perception. *Loquens*, 1(1): e009.

Garellek, M., P. Keating, C. M. Esposito, & J. Kreiman. (2013). Voice quality and tone identification in White Hmong. *Journal of the Acoustical Society of America*, 133(2): 1078–1089.

Zhang, Z., J. Kreiman, B. R. Gerratt, & **M. Garellek**. (2013). Acoustic and perceptual effects of changes in body-layer stiffness in symmetric and asymmetric vocal fold models. *Journal of the Acoustical Society of America*, 133(1): 453–462.

Garellek, M. (2012). The timing and sequencing of coarticulated non-modal phonation in English and White Hmong. *Journal of Phonetics*, 40(1): 152–161.

Garellek, M. & P. Keating. (2011). The acoustic consequences of phonation and tone interactions in Jalapa Mazatec. *Journal of the International Phonetic Association*, 41(2): 185–205.

Daland, R., B. Hayes, J. White, **M. Garellek**, A. Davis, & I. Normann. (2011). Explaining sonority projection effects. *Phonology*, 28(2): 197–234.

REFEREED CONFERENCE PROCEEDINGS

Garellek, M. & S. Seyfarth. (2016). Acoustic differences between English /t/ glottalization and phrasal creak. *Proceedings of Interspeech 2016*, 1054–1058.

Ritchart, A., G. Goodall, & **M. Garellek**. (2016). Prosody and the *that*-trace effect: an experimental study. *Proceedings of the 33rd West Coast Conference on Formal Linguistics*, 320–328.

Garellek, M., A. Aguilar, L. Carroll, & G. Caballero. (2015). Lexical and post-lexical tone in Choguita Rarámuri. *Proceedings of the 18th International Congress of Phonetic Sciences*.

Seyfarth, S., & **M. Garellek**. (2015). Coda glottalization in American English. *Proceedings of the 18th International Congress of Phonetic Sciences*.

Keating, P., **M. Garellek**, & J. Kreiman. (2015). Acoustic properties of different kinds of creaky voice. *Proceedings of the 18th International Congress of Phonetic Sciences*.

Garellek, M., P. Keating, & C. M. Esposito. (2014). Relative role of phonation in White Hmong tone perception. *Proceedings of the 38th annual meeting of the Berkeley Linguistics Society*, 179–189.

Piccinini, P., & **M. Garellek**. (2014). Prosodic cues to monolingual versus code-switching sentences in English and Spanish. *Proceedings of Speech Prosody 7*, 885–889.

Chen, G., **M. Garellek**, J. Kreiman, B. Gerratt, & A. Alwan. (2013). A perceptually and physiologically motivated voice source model. *Proceedings of Interspeech 2013*, 2001–2005.

Garellek, M. (2011). Lexical effects on English vowel laryngealization. *Proceedings of the 17th International Congress of Phonetic Sciences*, 727–730.

Keating, P., C. Esposito, **M. Garellek**, S. Khan, & J. Kuang. (2011). Phonation contrasts across languages. *Proceedings of the 17th International Congress of Phonetic Sciences*, 1046–1049.

OTHER PUBLICATIONS

Garellek, M. (2016). Learn about the Hmong language and culture at hmong.ucsd.edu. *New Year magazine of the Lao Hmong Family Association of San Diego*.

Garellek, M. (2015). The San Diego Hmong language project. *New Year magazine of the Lao Hmong Family Association of San Diego*, p. 14.

Garellek, M. (2014). A linguist's fascination with Hmong. *New Year magazine of the Lao Hmong Family Association of San Diego*, p. 9.

Garellek, M., R. A. Samlan, J. Kreiman, & B. R. Gerratt. (2013). Perceptual sensitivity to a model of the source spectrum. *Proceedings of Meetings on Acoustics*, 19: 060157.

Chen, G., **M. Garellek**, J. Kreiman, B. R. Gerratt, & A. Alwan. (2013). A perceptually and physiologically motivated voice source model. *Proceedings of Meetings on Acoustics*, 19: 060160.

Garellek, M. (2012). Word-initial glottalization and voice quality strengthening. *UCLA Working Papers in Phonetics*, 111: 92–122.

- Garellek, M.** (2012). Glottal stops before word-initial vowels in American English: distribution and acoustic characteristics. *UCLA Working Papers in Phonetics*, 110: 1–23.
- Garellek, M., C. M. Esposito, P. Keating, & J. Kreiman.** (2012). Perception of spectral slopes and tone identification in White Hmong. *UCLA Working Papers in Phonetics*, 110: 24–45.
- Garellek, M. & J. White.** (2012). Stress correlates and vowel targets in Tongan. *UCLA Working Papers in Phonetics*, 110: 65–85.
- Garellek, M.** (2011). The benefits of vowel laryngealization on the perception of coda stops in English. *UCLA Working Papers in Phonetics*, 109: 31–39.
- Keating, P., C. M. Esposito, **M. Garellek**, S. Khan, & J. Kuang. (2010). Phonation contrasts across languages. *UCLA Working Papers in Phonetics*, 108: 188–202.
- Garellek, M. & P. Keating.** (2010). The acoustic consequences of phonation and tone interactions in Jalapa Mazatec. *UCLA Working Papers in Phonetics*, 108: 143–163.
- Garellek, M.** (2010). The acoustics of coarticulated non-modal phonation. *UCLA Working Papers in Phonetics*, 108: 66–112.
- Garellek, M. & J. White.** (2010). Acoustic correlates of stress and their use in diagnosing syllable fusion in Tongan. *UCLA Working Papers in Phonetics*, 108: 34–65.

INVITED PRESENTATIONS

- Form and function of voice quality in Hmong and Yi languages (2017). Phonology seminar, Linguistics, University College London. London, UK. (October)
- Form and function of voice quality in Hmong and Yi languages (2017). Linguistics, La Trobe University. Melbourne, Australia. (March)
- What is creaky voice (“vocal fry”), and why do we use it? (2015). Cognitive Science, UC Merced. Merced, CA. (August)
- Les occlusives glottales et le renforcement prosodique. (2013). Département de linguistique et de traduction, Université de Montréal. Montreal, QC. (March)
- The role of prosody in the production and distribution of glottal stops. (2013). Department of Linguistics, UC Berkeley. Berkeley, CA. (February)
- The role of prosody in the production and distribution of glottal stops. (2013). Department of Linguistics, University of Pennsylvania. Philadelphia, PA. (February)
- The role of prosody in the production and distribution of glottal stops. (2013). Department of Linguistics, UC, San Diego. La Jolla, CA. (February)

CONFERENCE PRESENTATIONS

- Acoustics of the tense-lax contrast in Semarang Javanese. (2017). Poster, ASA, New Orleans, LA. (Joint work with Scott Seyfarth and Jozina Vander Klok).
- Voice quality variation over the course of the English utterance. (2017). Poster, ASA, New Orleans, LA. (Joint work with Elizabeth Bird).
- Voice quality analysis of children with cerebral palsy during sustained phonation and story retell. (2017). Poster, 7th International Conference on Speech Motor Control, Groningen, Netherlands, and ASHA 2017 convention, Los Angeles, CA. (Joint work with Ignatius Nip).
- Tone and phonation in Green Mong song. (2017). Poster, Southern California Meeting on Phonology (SCAMP), UCLA. (Joint work with Anna Mai).
- Online perception of coda glottalization in American English. (2016). Poster, ASA, Honolulu, HI. (Joint work with Adam Chong).

Acoustic comparison of /t/ glottalization and phrasal creak. (2016). Poster, ASA, Salt Lake City, UT. (Joint work with Scott Seyfarth).

Articulatory evidence for breathy voice during nasalization: a cross-linguistic study. (2016). Presentation, LSA, Washington, DC. (Joint work with Amanda Ritchart & Jianjing Kuang).

Acoustic differences in morphologically-distinct homophones. (2015). Presentation, AIMM3, Amherst, MA. (Joint work with Scott Seyfarth, Robert Malouf & Farrell Ackerman).

Prosody and the that-trace effect: an experimental study. (2015). Presentation, WCCFL 33, Vancouver, BC. (Joint work with Amanda Ritchart & Grant Goodall).

Moraic geminates in Malayalam: evidence from minimal word effects and loanword adaptation. (2015). Presentation, OCP12, Barcelona, Spain. (Joint work with Savithry Namboodiripad & Eric Baković).

Phrase-final creak: articulation, acoustics, and distribution. (2015). Presentation, LSA, Portland, OR. (Joint work with Patricia Keating).

Acoustic analysis of creaky voice. (2015). Poster, LSA, Portland, OR. (Joint work with Patricia Keating).

Multi-dimensionality in the tonal realization of Choguita Rarámuri (Tarahumara). (2015). Presentation, SSILA, Portland, OR. (Joint work with Andrés Aguilar, Gabriela Caballero, & Lucien Carroll).

Moraic geminates in Malayalam: evidence from minimal word effects and loanword adaptation. (2015). Presentation, LSA, Portland, OR. (Joint work with Savithry Namboodiripad & Eric Baković).

CJ vs. C^j in Russian. (2014). Presentation, Palatalization Conference. Tromsø, Norway. (Joint work with Jenna Baranov).

Perceptual differences among models of the voice source: Further evidence. (2014). Poster, ASA, Indianapolis, IN. (Joint work with Gang Chen, Jody Kreiman, Bruce R. Gerratt, & Abeer Alwan)

Perceptual differences among models of the voice source: Further evidence. (2014). Poster, ASA, Indianapolis, IN. (Joint work with Gang Chen, Jody Kreiman, Bruce R. Gerratt, & Abeer Alwan)

Perceptual importance of time-domain features of the voice source. (2014). Poster, ASA, Providence, RI. (Joint work with Gang Chen, Bruce R. Gerratt, Abeer Alwan, & Jody Kreiman)

Perceptual interactions among components of a spectral-domain voice source model. (2013). Poster, ASA, San Francisco, CA. (Joint work with Robin Samlan, Jody Kreiman, & Bruce Gerratt)

A perceptually and physiologically motivated voice source model. (2013). Presentation, Interspeech 2013, Lyon, France. (Joint work with Gang Chen, Jody Kreiman, Bruce Gerratt, & Abeer Alwan; presented by G. Chen)

Perceptual sensitivity to a model of the source spectrum. (2013). Poster, ICA, Montreal, QC. (Joint work with Robin Samlan, Jody Kreiman, & Bruce Gerratt)

A physiologically and perceptually motivated voice source model. (2013). Poster, ICA, Montreal, QC. (Joint work with Gang Chen, Jody Kreiman, Bruce Gerratt, & Abeer Alwan)

Prominence vs. phrase-initial strengthening of voice quality. (2013). Presentation, LSA, Boston, MA.

Perceptual evaluation of source models. (2012) Poster, ASA, Kansas City, MO. (Joint work with Jody Kreiman, Bruce Gerratt, Gang Chen, & Abeer Alwan)

Importance of coding the Utterance domain in prosodic transcriptions. (2012). Poster, Workshop on Advancing Prosodic Transcription, Stuttgart, Germany.

A reanalysis of glottal stops and glottalization in English. (2012). Poster, LabPhon 13, Stuttgart, Germany.

Multi-dimensional phonetic space for phonation contrasts. (2012). Poster, LabPhon 13, Stuttgart, Germany. (Joint work with Pat Keating, Jianjing Kuang, Christina M. Esposito, & Sameer ud Dowla Khan).

Perceptual evaluation of source models. (2012). Presentation, ICVPB, Erlangen, Germany. (Joint work with Jody Kreiman, Bruce R. Gerratt, Gang Chen, & Abeer Alwan; presented by J. Kreiman).

Relationship between left-right stiffness mismatches, left-right vibration asymmetries, and voice quality. (2012). Presentation, ICVPB, Erlangen, Germany. (Joint work with Zhaoyan Zhang, Jody Kreiman, & Bruce R. Gerratt; presented by Z. Zhang).

Relative role of pitch vs. phonation cues in White Hmong tone identification. (2012). Poster, 2012 Acoustics meeting, Hong Kong. (Joint work with Christina Esposito, Pat Keating, & Jody Kreiman; presented by P. Keating).

Phonation in nine languages. (2012). Poster, 2012 Acoustics meeting, Hong Kong. (Joint work with Pat Keating, Jianjing Kuang, Christina Esposito, & Sameer ud Dowla Khan; presented by P. Keating).

Relative importance of phonation cues in White Hmong tone perception. (2012). Presentation, BLS 38, Berkeley, CA. (Joint work with Pat Keating, & Christina Esposito).

Perceptual benefits of English vowel laryngealization. (2011). Poster, ASA, San Diego, CA.

Perceptual sensitivity to components of the source spectrum. (2011). Poster, ASA, San Diego, CA. (Joint work with Jody Kreiman, & Christina Esposito).

Acoustic correlates of stress in Tongan. (2011). Poster, ASA, Seattle, WA. (Joint work with Jamie White; presented by J. White).

Acoustic correlates of stress and their use in diagnosing syllable fusion in Tongan. (2011). Presentation, AFLA 18, Harvard. (Joint work with Jamie White).

Coarticulation of non-modal phonation. (2010). Poster, ASA, Cancun Mexico.

Phonation contrasts across languages. (2010). Poster, LabPhon 12, Albuquerque, NM. (Joint work with Pat Keating, Christina Esposito, Sameer Khan, & Jianjing Kuang).

Phonation and tone interactions in Mazatec. (2010). Poster, ASA, Baltimore MD.

Perception of aspiration. (2009). Poster, ASA, San Antonio TX.

AWARDS, HONORS, AND GRANTS

UCSD Senate grant	2018
NSF Dissertation Grant (with Amanda Ritchart)	2016–2017
Hellman Fellowship	2015–2016
UCSD Faculty Career Development Program award	2015–2016
Doctoral research scholarship: Fonds québécois de recherche sur la société et la culture (FQRSC),	2010–2013
Best student abstract (second prize), Linguistic Society of America, Boston, MA.	2013
Best student abstract, AFLA18, Harvard University, Cambridge, MA.	2011
Best student paper in Speech Communication, Spring 2011 meeting of the Acoustical Society of America, Baltimore	2011
UCLA Linguistics summer research award, Department of Linguistics, UCLA	2009–2011
Master’s research scholarship: Fonds québécois de recherche sur la société et la culture (FQRSC),	2008–2010
Cremona Memorial Prize in Linguistics, Department of Linguistics, McGill	2008
Dean’s Honours List 2006–2008, McGill	2006–2008
J.W. McConnell Award for academic excellence, McGill	2007
Foundation for the Advancement of Protestant Education Award for academic excellence in Arts, McGill	2007

TEACHING EXPERIENCE

LIGN 175, Sociolinguistics , Instructor, UC San Diego	Spring 2017
LIGN 214, Seminar in Phonetics (Graduate level) , Instructor, UC San Diego	Spring 2017
LIGN 210, Phonetics (Graduate level) , Instructor, UC San Diego	Winter 2017
LIGN 110, Phonetics (Undergraduate level) , Instructor, UC San Diego	Fall 2016
LIGN 112, Speech sounds and speech disorders , Instructor, UC San Diego	Winter 2016
LIGN 214, Seminar in Phonetics (Graduate level) , Instructor, UC San Diego	Winter 2016
LIGN 210, Phonetics (Graduate level) , Instructor, UC San Diego	Fall 2015
LIGN 175, Sociolinguistics , Instructor, UC San Diego	Spring 2015
LIGN 112, Speech sounds and speech disorders , Instructor, UC San Diego	Winter 2015
LIGN 210, Phonetics (Graduate level) , Instructor, UC San Diego	Winter 2015
LIGN 110, Phonetics (Undergraduate level) , Instructor, UC San Diego	Fall 2014
LIGN 214, Seminar in Phonetics (Graduate level) , Instructor, UC San Diego	Winter 2014
LIGN 210, Phonetics (Graduate level) , Instructor, UC San Diego	Winter 2014
LIGN 110, Phonetics (Undergraduate level) , Instructor, UC San Diego	Fall 2013
LING 111, Intonation , Teaching Assistant, UCLA	Spring 2012
LING 104, Experimental Phonetics , Teaching Assistant, UCLA	Fall 2011
LING 103, Introduction to Phonetics , Teaching Assistant, UCLA	Winter 2011

GRADUATE ADVISING, UNIVERSITY OF CALIFORNIA, SAN DIEGO

Past Ph.D. advisees

Page Piccinini (2016)

Scott Seyfarth (2016, co-advised by Farrell Ackerman)

Current Ph.D. advisees

Andrés Aguilar (co-advised by Gabriela Caballero)

Amanda Ritchart

Dissertation committee member

Kati Hout, UCSD Linguistics (ongoing, Chair: Eric Eric Baković)

Conor Frye, UCSD Cognitive Science (ongoing, Chair: Sarah Creel)

Lucien Carroll, UCSD Linguistics (2015, Co-chairs: Eric Baković, Gabriela Caballero)

Comprehensive exam paper reader

Anna Mai: Ancillary reader (Primary reader: Eric Baković)

Spring 2017

Adam McCollum: Ancillary reader (Primary reader: Sharon Rose)

Spring 2016

Eric Meinhardt: Primary reader (Co-primary reader: Eric Baković)

Spring 2016

Jenna Baranov: Primary reader

Spring 2015

Andrés Aguilar: Ancillary reader (Primary readers: Eric Baković, Gabriela Caballero)

Spring 2015

Kati Hout: Ancillary reader (Primary reader: Eric Baković)

Spring 2015

Anne Therese Frederiksen: Ancillary reader (Primary reader: Rachel Mayberry)

Spring 2014

Andrea Guerrero: Ancillary reader (Primary readers: Eric Baković, Gabriela Caballero)

Spring 2014

Amanda Ritchart: Primary reader (Co-primary reader: Grant Goodall)

Spring 2014

UNDERGRADUATE MENTORSHIP, UNIVERSITY OF CALIFORNIA, SAN DIEGO

Dongfang Li: Advisor, Academic Internship Program

Spring 2015, Summer 2015

Karla Barranco Márquez: Advisor, Linguistics Honors Program

Fall 2014–Spring 2015

Derek Ochreiter: Advisor, Academic Internship Program

Spring 2014

Journal article reviewing	2012–present
<i>International Journal of Speech-Language Pathology, Journal of the Acoustical Society of America, Journal of the International Phonetic Association, Journal of Phonetics, Journal of Speech, Language, and Hearing Research, Laboratory Phonology, Language, Lingua, Phonetica, Phonology</i>	
Conference abstract reviewing	2012–present
<i>West Coast Conference on Formal Linguistics (WCCFL), European Summer School in Language Logic and Information (ESSLLI), Tonal Aspects of Language (TAL), Speech Prosody, Penn Linguistics Conference</i>	
Other reviewing	
Book proposal, <i>Acoustical Society of America Press-Springer</i>	2015
Book chapter, <i>Oxford University Press</i>	2016
External MRes. examiner, Macquarie University	2016
Book chapter, <i>Routledge</i>	2017
Undergraduate faculty advisor , Department of Linguistics, UC San Diego	2014–present
Research/Travel Grant Committee , Department of Linguistics, UC San Diego	2013–present
Member, Excellence Review Committee , Linguistics Language Program, UC San Diego	2015
Chair of Excellence Review Committee , Linguistics Language Program, UC San Diego	2015
Job Search Committee , Linguistics Language Program, UC San Diego	2013–2014

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