

Phonetics & Phonology @ UC San Diego

Who we are and what we're up to, as of February 2015

Sharon Rose, Professor

(BA, Toronto; MA, Université du Québec à Montréal; PhD, McGill)

My research interests are driven by primary data collection on African languages, particularly Ethiopian Semitic and Kordofanian (Niger-Congo). They center on long distance phonotactics (harmony, dissimilation), tone, and prosodic morphology. I have recently started a project on the phonological characteristics of ideophones. My recent work has included collaboration on phonetics, syntax and psycholinguistics projects. I am currently working on a book-length grammar of the Kordofanian language, Moro, funded by an NSF grant. I have supervised students (my own advisees as well as others) on a variety of topics, ranging from sign language phonology to acquisition. I particularly welcome students interested in combining fieldwork and phonological theory.

Eric Baković, Professor

(BA, UC Santa Cruz; PhD, Rutgers)

My interests are in phonological theory, and my research is generally about the complex interaction of phonological processes. My most recent work has been on blocking and opaque interactions in particular, and I am currently working on a formal method for understanding those interactions. I also have the pleasure of working on projects with students and other faculty, such as Kati Hout (on exceptions to hiatus resolution in Mushunguli) and Savi Namboodiripad & Marc Garellek (on loanword adaptation in Malayalam).

Gabriela Caballero, Assistant Professor

(BA, Universidad de Sonora, Mexico; PhD, UC Berkeley)

My research seeks to contribute to the documentation of indigenous languages of the Americas and to further our understanding of what is the possible range of variation in terms of phonology, morphology and their interaction. I specialize in Uto-Aztecan languages and conduct field research on Rarámuri (Tarahumara) in northern Mexico. Recent projects include investigating variable affix ordering, multiple exponence, tone and metrical structure. My research interests recently extend to the psycholinguistic investigation of phonological and morphological processing (with Volya Kapatsinski (U Oregon)), as well as examining the role of register, boundary tones, lengthening and phonation manipulations in the intonation of Rarámuri (with Marc Garellek, Andrés Aguilar and Lucien Carroll).

Marc Garellek, Assistant Professor

(BA, McGill; PhD, UCLA)

My research focuses on understanding how components of the speech chain (articulation, acoustics, and perception) interact phonetically, and how phonological and psycholinguistic factors influence each link in the chain. I am currently interested in the phonetics of laryngeal sounds like glottal stops and breathy/creaky phonation types, and have studied the phonetics of laryngeals in a diverse group of languages including Mazatec, Hmong, and Tongan. The multidisciplinary nature of my research has led to frequent collaborations with electrical engineers and speech-language pathologists; I particularly enjoy working with those interested in applying a quantitative analysis of speech to a broad range of scientific questions.

Lucien Carroll, ABD

(BA, BS, UCSB; MA ABT, SDSU)

My primary interests are in phonological and phonetic description of tone and prosody. I've recently worked on speaker variation in the sandhi tones of Jinhua Wu, vowel lengthening and tone patterns in GiTonga, and (with Gabriela Caballero) on stress and tone in Rarámuri. My thesis is a phonological and acoustic description of word prosody and tone in Ixpantepec Nieves Mixtec. I am also interested in quantitative modeling of cross-linguistic variation as a product of synchronic variation and change.

Bethany Keffala, ABD

(BA, Bryn Mawr; MA, UC San Diego)

I am interested in phonological acquisition, phonotactic knowledge, categorization and contrast within phonological systems, and how frequency and complexity impact phonological learning. My research, in collaboration with Sharon Rose (UCSD) and Jessica Barlow (SDSU), investigates the acquisition of syllable structures and segments in mono- and bilinguals, as well as interaction in bilingual phonological acquisition (Spanish and English mono- and bilinguals).

Hope Morgan, ABD

(BA, Sonoma State; MA, UC San Diego)

My dissertation work is centered on the sub-lexical system of Kenyan Sign Language, which emerged only about 50 years ago. Goals for the phonological analysis include locating contrastive features and describing word types and minimal and maximal word forms. The task is complicated by highly divergent views of the underlying representation of segments in sign, the fact that descriptive sign phonology is an undeveloped field, and the possibility that some forms may still be emerging from undifferentiated wholes.

Younah Chung, 5th-year grad

(BA, MA, Yonsei University, Seoul, Korea)

I'm interested in phonetics and sociolinguistics, especially in the relationship between intonation and pragmatics. I've worked on Moro intonation examining duration and pitch in Moro polar questions. I'm currently working on speech cycling experiments in Korean, which lacks stress, to examine what, if any, elements are used in Korean for rhythm purposes.

Page Piccinini, 5th-year grad

(BA, MA, Northwestern)

I am interested in phonetics and phonology and the role they play in bilingual speech production and perception. I am currently looking at Spanish-English code-switching to see if there are cues in the signal to alert the listener of an upcoming switch as phonotactic constraints from one language are mapped on to the other.

Amanda Ritchart, 4th-year grad

(BA, UCLA)

I am generally interested in phonetics and intonation. Some current areas of research include the perception of nasalization, tonogenesis in Punjabi, the sociophonetics of intonation, and the syntax-prosody interface of the *that*-trace effect.

Scott Seyfarth, 4th-year grad

(BA, BM, Northwestern)

I'm interested in the interaction of probabilistic knowledge with phonetic and phonological representation. Recently, I've been looking at how segment and word durations are changed in response to context and morphological structure, both online and offline. I'm also working on a corpus analysis of coda stop glottalization in American English.

Andrés Aguilar, 2nd-year grad

(BA, UCLA; MA, CSUN)

I am interested in phonology and in its interaction with morphology, and also in language documentation. I am currently studying how phonological processes interact with syllable structure in the agglutinative morphology of Nahuatl. I am also working with Gabriela Caballero on Rarámuri.

Kevin Gabbard, 2nd-year grad

(BA, The Ohio State University, Fulbright, Universitetet i Tromsø & CASTL)

My primary research interests are the description of the phonology and morphology of understudied languages and representational issues in capturing the behavior of these systems. I am currently working on the distribution of vowels and the interaction of morphology and phonology in South Saami. I have worked on: Persian, Avestan, and Albanian (Indo-European), Temne and Gurune (Niger-Congo A), Somali (Cushitic), Saami (Uralic), and Bari (Nilo-Saharan).

Kati Hout, 2nd-year grad

(BA, The Ohio State University)

My main research interest is description of the segmental phonology of Bantu languages, particularly hiatus resolution. I am also interested in questions of abstractness, opacity, and the relationship between phonetics and phonology. I am currently working on describing the behavior of exceptional stems in Somali-Bantu Chizigula (Mushunguli).

UC San Diego

The
Phon
Company



Don't call us, we'll call you.

Selected recent and upcoming work and such

Publications (2013 - to appear)

- E. Baković. 2013. Phonology and phonological theory. *Oxford Handbook of Language Production*.
- E. Baković. 2013. *Blocking and Complementarity in Phonological Theory*. Equinox.
- G. Caballero, L. Carroll. To appear. Tone and stress in Choguïta Rarámuri (Tarahumara) word prosody. *IJAL*.
- G. Caballero, L. Carroll. To appear. Procesos de adaptación prosódica en préstamos en el rarámuri de Choguïta y en el tu' un savi de Ixpantepec Nieves. *CILLA*.
- G. Caballero, V. Kapatsinski. 2014. Perceptual functionality of morphological redundancy in Choguïta Rarámuri (Tarahumara). *Language, Cognition and Neuroscience*.
- G. Caballero. 2014. Derivation in Uto-Aztecan: Rarámuri. *Oxford Handbook on Morphological Derivation*.
- G. Caballero, S. Inkelas. 2013. Word construction: tracing an optimal path through the lexicon. *Morphology* 23.
- G. Caballero. 2013. Multiple Exponence of derivational morphology in Rarámuri (Tarahumara). *BLS* 33.
- R. Colavin, R. Levy, S. Rose. To appear. Modeling OCP-Place in Amharic with the Maximum Entropy Phonotactic Learner. *CLS* 46.
- G. Doyle, R. Levy. 2013. Combining multiple information types in Bayesian word segmentation. *Proc. of NAACL*.
- M. Garellek. To appear. Perception of glottalization and phrase-final creak. *JASA*.
- M. Garellek, J. White. To appear. Phonetics of Tongan stress. *Journal of the International Phonetic Association*.
- M. Garellek. 2014. Voice quality strengthening and glottalization. *Journal of Phonetics* 45.
- J. Kreiman, B. Gerratt, M. Garellek, R. Samlan, Z. Zhang. 2014. Toward a unified theory of voice production and perception. *Loquens* 1.
- M. Garellek, P. Keating, C. Esposito. 2014. Relative role of phonation in White Hmong tone perception. *BLS* 38.
- M. Garellek, R. A. Samlan, J. Kreiman, B. R. Gerratt. 2013. Perceptual sensitivity to a model of the source spectrum. *POMA* 19.
- M. Garellek, P. Keating, C. M. Esposito, J. Kreiman. 2013. Voice quality and tone identification in White Hmong. *JASA* 133.
- B. Keffala, J. Barlow, S. Rose. In preparation. Phonological interaction and unshared structure: Coda clusters in Spanish-English bilinguals' acquisition of phonology.
- B. Keffala, J. Barlow, S. Rose. Under revision. Interaction in Spanish-English bilinguals' acquisition of syllable structure. *International Journal of Bilingualism*.
- B. Keffala, J. Barlow, S. Rose. Under revision. Markedness, Frequency, and the Positional Acquisition of Liquids. *Clinical Linguistics and Phonetics*.
- B. Keffala. 2013. A Preliminary Statistical Analysis of the Relationship between Syllable Structure and Sonorant Inventory Size. *San Diego Linguistic Papers* 4.
- P. Piccinini, M. Garellek. 2014. Prosodic Cues to Monolingual versus Code-switching Sentences in English and Spanish. *Proc. of the 7th Speech Prosody Conference*.
- C. Grijalva, P. Piccinini, A. Arvaniti. 2013. The vowel spaces of Southern Californian English and Mexican Spanish as produced by monolinguals and bilinguals. *POMA* 19.
- P. Jenks, S. Rose. To appear. Mobile Object Markers in Moro: The Role of Tone. *Language*.
- P. Piccinini, A. Arvaniti. To appear. Accessing cross language categories in learning a third language. *BUCLD* 38.
- P. Piccinini, E. Kramer. 2013. Unsupervised machine learning for the accurate classification of the discourse marker *like* in code-switching utterances. *POMA* 19.
- A. Ritchart, A. Arvaniti. 2014. The use of high rise terminals in Southern Californian English. *POMA* 20.
- A. Ritchart, A. Arvaniti. 2014. The form and use of uptalk in Southern Californian English. *Proc. Speech Prosody*.
- A. Ritchart, S. Rose. To appear. Schwas in Moro vowel harmony. *Sel. Proc. ACAL* 44.

S. Rose. 2013. The morphological structure of the Moro verb. *Nuba Mountain Language Studies*.

S. Seyfarth. 2014. Word informativity influences acoustic duration: effects of contextual predictability on lexical representation. *Cognition* 133.

Presentations (2014 - upcoming)

- E. Baković. Jan. 2015. Exceptional stress in Spanish. *Workshop on Exceptions in Phonology*, Barcelona, Spain.
- W. Bennet, S. Rose. Jan. 2014. Correspondence and Moro [-voice] dissimilation. *OCP II*, Leiden University.
- G. Caballero. Oct. 2015. TBA. Invited talk, *CILLA* VII, University of Texas, Austin.
- A. Aguilar, G., Caballero, L. Carroll, M. Garellek. Jan. 2015. Multi-dimensionality in the tonal realization of Choguïta Rarámuri (Tarahumara). *SSILA*, Portland.
- A. Aguilar. Mar. 2015. Nahuatl Palatal Glides. *2nd Int'l Conference on Mesoamerican Linguistics*, Los Angeles.
- G. Caballero, L. Carroll, M. Garellek. 2014. Tone-intonation interactions in Choguïta Rarámuri (Tarahumara). Invited talk, *Workshop on the Sound Systems of Mexico and Central America*, Yale.
- L. Carroll. Jan. 2014. Ixpantepec Nieves Mixtec word prosody. *SSILA*, Minneapolis.
- K. Gabbard. Apr. 2014. An example of self-destructive feeding without deletion in Somali. *ACAL* 45, U. of KS.
- S. Namboodiripad, M. Garellek, E. Baković. Jan. 2015. Moraic geminates in Malayalam: evidence from minimal word effects and loanword adaptation. *LSA* 89, Portland / *OCP* 12, Barcelona.
- Garellek, M., P. Keating. Jan. 2015. Phrase-final creak: articulation, acoustics, and distribution. *LSA* 89, Portland.
- Garellek, M., P. Keating. Jan. 2015. Acoustic analysis of creaky voice. Poster, *LSA* 89, Portland.
- Baranov, J., & M. Garellek. Nov. 2014. CJ vs. Cj in Russian. *Palatalization Conference*, Tromsø.
- K. Hout. Apr. 2014. Exceptions to hiatus resolution in Somali-Bantu Chizigula (Mushunguli). *Endangered Languages Workshop*, *ACAL* 45, University of Kansas.
- K. Hout & E. Baković, Jan. 2015. Two approaches to exceptionality in Mushunguli (Somali Chizigula). *Workshop on Exceptions in Phonology*, Barcelona, Spain.
- B. Keffala, J. Barlow. Jan. 2014. Frequency and complexity differences predict interaction in bilingual phonological acquisition. *LSA* 88, Minneapolis.
- B. Pajak, P. Piccinini, R. Levy. Oct. 2014. Perceptual warping of phonetic space applies beyond known phonetic categories: evidence from the perceptual magnet effect. *ASA* 168, Indianapolis.
- P. Piccinini, M. Garellek. May 2014. Prosodic cues to monolingual versus code-switching sentences in English and Spanish. *Speech Prosody* 7, Dublin.
- A. Davis, P. Piccinini, A. Ribot. April 2014. Catalan independence: Voluntary organizations and the construction of social capital. *SALSA XXII*, Austin.
- P. Piccinini, A. Arvaniti. Apr. 2014. The role of language dominance and language mode in speech processing by bilinguals. *Meeting of the British Association of Academic Phoneticians*, Oxford.
- P. Piccinini, A. Arvaniti. Jan. 2014. Accessing cross language categories in exposure to a third language. *LSA* 88.
- P. Piccinini. Dec. 2013. Predicting code-switches from phonetic information: The discourse marker *like* in Spanish-English code-switching. *ASA* 166, San Francisco.
- A. Ritchart, G. Goodall, M. Garellek. Mar. 2015. Prosody and the *that*-trace effect: an experimental study. *WCCFL* 33, Vancouver.
- A. Ritchart, A. Arvaniti. July 2014. Uptalk in semi-spontaneous and scripted speech. *LabPhon*, Tokyo.
- A. Ritchart, Y. Chung. Jan. 2014. Question Prosody in Ixpantepec Nieves Mixtec. *SSILA*, Minneapolis.
- S. Rose. Mar. 2015. Phonological characteristics of ideophones in Moro. *ACAL* 46, University of Oregon

A. Naser, S. Rose. Aug. 2014. Ideophones in Moro. *2nd Nuba Mountains Languages Conference*, INALCO, Paris.

S. Rose. June 2014. Transparency and centralization in Moro vowel harmony: phonetics and phonology. Keynote presentation, CRC-Sponsored *Summer Phonetics/Phonology Workshop*, University of Toronto.

S. Rose. Apr. 2014. Phonologically-conditioned affix order in Moro. Colloquium, University of Leipzig.

S. Rose. Apr. 2014. Exploring intonation in an African tone language: the case of Moro. *PhonoLAM Meeting*, Leiden.

S. Rose. Feb. 2014. Vowel harmony meets centralization. Colloquium, Leiden University Centre for Linguistics.

S. Rose. Feb. 2014. Issues in Moro vowel harmony. Colloq., Institute for African Studies, Cologne University.

S. Seyfarth, E. Buz, T. F. Jaeger. Mar. 2015. Talkers selectively enhance informative duration contrasts. *CUNY Conf. on Human Sentence Processing* 28, Los Angeles.

S. Seyfarth, E. Sneller. Mar. 2014. Diachronic evidence for phonological reanalysis in New Zealand English [u]-fronting. *Penn Linguistics Colloquium* 38, Philadelphia.

Funding (2013 - present)

- A. Aguilar. 2013-15. San Diego Fellowship.
- A. Aguilar. 2014. *Nahuatl language studies and fieldwork*. UC MEXUS Small Grant.
- E. Baković. 2015. *Towards a unified approach to phonological exceptions*. UCSD Academic Senate Grant (\$13K).
- F. Ackerman, S. Rose. 2008-13. *Moro Language Project*. NSF grant BCS-0745973 (\$199,917).
- G. Caballero. 2012-14. *A reference grammar of Choguïta Rarámuri (Tarahumara)*. NSF DEL-1160672 (\$162,191).
- L. Carroll. 2013-14. *Ixpantepec Nieves Mixtec Word Prosodic Phonology*. UC MEXUS Diss. Research Grant.
- K. Gabbard. 2013-15. Cota-Robles Fellowship.
- H. Morgan. 2010-13. UCSD Center for Academic Research and Training in Anthropogeny Fellowship.
- P. Piccinini. 2012-13. UCSD Center for Research on Language NIH Predoctoral Training Fellowship.
- S. Rose. 2013-14. KNAW Visiting Professor Fellowship, Leiden University.
- S. Seyfarth. 2013-16. NSF Graduate Research Fellowship.
- S. Seyfarth. 2013. NSF East Asia and Pacific Summer Institute award (New Zealand).

Alumni (2003 - 2014)

- Rebecca Colavin**, PhD 2013 (Advisors: Rose & Levy) Thesis: *Phonotactic probability in Amharic: a psycholinguistic and computational investigation*.
- Bozenna Pajak**, PhD 2012 (Advisors: Baković & Levy) Research Associate and Lecturer, Linguistics Department, Northwestern University. Thesis: *Inductive inference in non-native speech processing and learning*.
- Cynthia Kilpatrick**, PhD 2009 (Advisor: Baković) Assistant Professor, Department of Linguistics & TESOL, University of Texas at Arlington. Thesis: *The Acquisition of Ungrammaticality: Learning a Subset in L2 Phonotactics*.
- Nicoleta Bateman**, PhD 2007 (Advisor: Rose) Associate Professor, Liberal Studies Department, California State University San Marcos. Thesis: *A Crosslinguistic Investigation of Palatalization*.
- Alicia Muñoz Sánchez**, PhD 2003 (Advisor: Rose) Spanish Language Academic Coordinator, Linguistics Department, UC San Diego. Thesis: *The Effect of Phonological Status on the Acquisition of New Contrasts: Evidence from Spanish and Japanese L2 Learners of English*.
- Linda Godson**, PhD 2003 (Advisors: Polinsky & Rose) Heritage Language Initiative Coordinator, Department of World Languages and Literatures, Portland State University. Thesis: *Phonetics of Language Attrition: vowel production and articulatory setting in the speech of Western Armenian heritage speakers*.