

Phonetics, Phonology, & Fieldwork @ UC San Diego

Who we are and what we're up to, as of February 2017

Andrés Aguilar, ABD (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.

Eric Baković, Professor (BA, UC Santa Cruz; PhD, Rutgers)

My interests are in phonological theory, and my research is generally concerned with relations between phonological maps. My recent work has been on blocking and opaque interactions in particular. I am now working on formal methods for understanding these and other relations in collaboration with Lev Blumenfeld (Carleton University), and on modeling these relations within the framework of Gradient Symbolic Computation in collaboration with Matt Goldrick (Northwestern University) and Anna Mai (UC San Diego).

Gabriela Caballero, Associate Professor (BA, Universidad de Sonora; PhD, UC Berkeley)

My research seeks to contribute to the documentation of indigenous languages of the Americas (especially Uto-Aztecan languages) and to further our understanding of what is the possible range of variation in terms of phonology, morphology and their interaction. Recent projects include the typology and formal modeling of affix ordering and multiple exponence, and interactions between tone, segmental alternations and metrical structure. In language documentation, I am especially interested in developing corpora and resources that serve both academic linguists and indigenous communities. My research interests recently extend to psycholinguistic aspects of phonological and morphological processing, as well as examining tone-intonation interactions and non-tonal encoding of intonation of Rarámuri.

Younah Chung, ABD (BA, MA, Yonsei University)

I'm generally interested in sociophonetics, heritage linguistics and prosody. I'm currently looking at phonetics and syntax of heritage Korean in long-term contact with English to see how and why heritage Korean is formed the way it is, and especially, to see the influence of linguistic and sociocultural backgrounds of heritage speakers on their languages.

Marc Garellek, Assistant Professor (BA, McGill; PhD, UCLA)

My interests are in phonetics and laboratory phonology, especially of laryngeal sounds. I study the physical range of possible laryngeal articulations, how these interact with other segments and suprasegments, and how different languages exploit the larynx to convey linguistic meaning. My work has led to detailed phonetic analyses of diverse languages including Malayalam, Mazatec, Hmong, Tongan, and Yi. 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.

John B. Haviland, Distinguished Professor of Anthropology

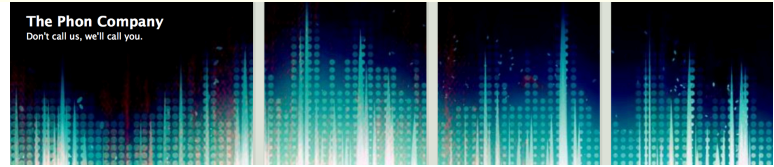
I focus on the social life of language, especially in everyday interaction, most particularly among Tzotzil (Mayan) speakers of Chiapas, Mexico; speakers of Guugu Yimithirr (Paman) and its close neighbors in northeastern Queensland, Australia; and, recently, a first-generation sign language from a single extended family whose hearing members speak Tzotzil.

Kati Hout, 4th-year grad (BA, Ohio State; MA, UC San Diego)

My main research interest is phonological exceptionality. I have been working on developing a typology of exceptions, as well as examining different theoretical models for analyzing and predicting them. I am also interested in vocalic phenomena, especially hiatus resolution and harmony. As I consider it important to situate theoretical work in terms of real data, I have also conducted fieldwork on Mushunguli (Somali Bantu) and Bari (E. Nilotic, South Sudan).

Anna Mai, 2nd-year grad (BA, Washington University in St. Louis)

I am interested in the phonology and phonetics of suprasegmentals including stress, tone, and prosody. My current projects include a phonetic study of onset contribution to syllable weight in English and a characterization of the relationship between linguistic prosody and musical rhythm in hip-hop verse.



Adam McCollum, 2nd-year grad (BA, Presbyterian College; MA, University of Florida)

My research aims to inform phonological theory through fieldwork and quantitative approaches to understudied languages. Most of my work focuses on vowel harmony, with an emphasis on Turkic. I currently have projects on labial harmony in Kazakh and Crimean Tatar, and on transparency in Kazakh. Outside of Turkic, I am working on vowel harmony in Tutrugbu (Kwa) and Mayak (Nilotic), and I am engaged in a documentation project on Yazgulyami (SE Iranian), focusing on syllable structure and vowel-less syllables.

Eric Meinhardt, 4th-year grad (BA, University of Rochester)

My interests lie at the intersection of linguistic theory and computational psycholinguistics. For example, while phonetic factors like perceptibility loom large in functional accounts of phonology, models of word recognition indicate that incremental processing and the structure of the lexicon can diminish or exaggerate the role of the acoustic perceptibility of a given segment token: my recent work has been on a computational model of how perceptibility interacts with knowledge of the lexicon in word recognition and what the theoretical consequences are for functional theories of phonotactics.

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.

Michael Obiri-Yeboah, 1st-year grad (BA, MPhil, University of Ghana)

I am generally interested in fieldwork, sound patterns, tonal properties, and typology. I am currently working on Gua (a Kwa language under the Tano branch of Ghana) vowel harmony with regard to domains and directionality. I hope to extend the studies to its grammar and tone in relation to typology and phonological theory respectively.

Amanda Ritchart, ABD (BA, UCLA; MA, UC San Diego)

I'm currently finishing up my dissertation on the production and perception of breathy voice during nasal sounds. My past research has also investigated tonogenesis in Punjabi, the sociophonetics of English declarative rises, and the syntax-prosody interface of the *that*-trace effect.

Sharon Rose, Professor (BA, Toronto; MA, UQAM; 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.

Matt Zaslansky, 1st-year grad (BA, University of Buffalo)

Morphology and its interactions with phonology are my primary research interests. I am currently working on describing the verbal paradigms of two quite distinct languages: Juhuri (also referred to as Judeo-Tat) and Azerbaijani Sign Language. I am also working on possible diachronic explanations for ejective spreading and the development of coda-voicing obstruents in Lezgian.

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Selected recent publications, presentations, funding, and alumni

Publications (2016 - forthcoming)

- E. Baković. 2016. Exceptional stress in Spanish. *Catalan Journal of Linguistics* 15.
- Bennett, Wm. G., S. Rose. Correspondence and Moro [-voice] dissimilation. To appear, *Phonology*.
- G. Caballero, S. Inkelas. A construction-based approach to Multiple Exponence. In prep., *Advances in Construction Morphology*.
- G. Caballero, V. Kapatsinski. How agglutinative? Searching for cues to meaning in Choguita Rarámuri (Tarahumara) using an amorphous model. In prep., *Morphological Typology and Linguistic Cognition*.
- B. Chamora, J.-F. Prunet, S. Rose. Inor Group. To appear, *Handbook of Ethiopian Languages*.
- S. Chen, C. Zhang, A. G. McCollum, R. Wayland. 2017. Statistical modelling of phonetic and phonologised perturbation effects in tonal and non-tonal languages. *Speech Communication* 88.
- Y. Chung, P. Piccinini, S. Rose. 2016. The interaction of polar question and declarative intonation with lexical tone in Moro. *Proc. Speech Prosody 8*.
- M. Garellek, R. Samlan, B. Gerratt, J. Kreiman. 2016. Modeling the voice source in terms of spectral slopes. *JASA* 139.
- Garellek, M., A. Ritchart, J. Kuang. 2016. Breathy voice during nasality: a cross-linguistic study. *JPhon* 59.
- Garellek, M., S. Seyfarth. 2016. Acoustic differences between English /t/ glottalization and phrasal creak. *Proceedings of Interspeech* 2016.
- B. R. Gerratt, J. Kreiman, M. Garellek. 2016. Comparing measures of voice quality from sustained phonation and continuous speech. *Journal of Speech, Language, and Hearing Research* 59.
- J. B. Haviland. 2016. "But you said 'four sheep'!": (sign) language, ideology, and self (esteem) across generations in a Mayan family. *Language & Communication*.
- J. B. Haviland. 2016. Making *gambarr*: It belongs to me, I belong to it. In *Land and Language in Cape York Peninsula and the Gulf Country*, John Benjamins.
- J. B. Haviland. Mayan Conversation and Interaction., Forthcoming in *The Mayan Languages*, Routledge.
- K. Hout. Exceptions to Hiatus Resolution in Mushunguli (Somali Chizigula). To appear, *Africa's Endangered Lgs.: Documentary and Theoretical Approaches*, Oxford.
- P. Jenks, S. Rose. Documenting control and raising in Moro. To appear, *Africa's Endangered Lgs.: Documentary and Theoretical Approaches*, Oxford.
- B. Keffala, J. Barlow, Sharon Rose. 2016. Interaction in Spanish-English bilinguals' acquisition of syllable structure. *International Journal of Bilingualism*.
- A. Mai, A. Aguilar, G. Caballero. Ja'a Kumiai (phonetic illustration). Under review, *JIPA*.
- A. G. McCollum. 2017. Mayan and the typology of labial harmony. *Proc. AMP* 2016.
- A. G. McCollum. Vowel dispersion and Kazakh labial harmony. Under revision, *Phonology*.
- A. G. McCollum, S. Chen. Kazakh. Under review, *JIPA*.
- A. G. McCollum. 2016. Modeling the gradient evolution and decay of harmony systems. *Proc. AMP* 2015.
- S. Nambodiripad & M. Garellek. Malayalam (Nambodiri dialect). To appear, *JIPA*.
- A. Ritchart, G. Goodall, M. Garellek. 2016. Prosody and the *that*-trace effect: an experimental study. *Proc. WCCFL* 33.
- A. Ritchart, S. Rose. Moro vowel harmony: Implications for transparency and representations. *Phonology*.
- S. Rose, P. Piccinini. 2016. Intonation in the Thetogovela dialect of Moro. *Intonation in African Tone Languages*. Mouton.

Presentations (2016 - upcoming)

- E. Baković. 4/2017. A set-theoretic typology of phonological map interaction. Invited talk, Stanford University.
- E. Baković, L. Blumenfeld. 3/2017. The interaction of phonological maps: a set-theoretic typology. *MOT* 2017.
- E. Baković. 1/2017. Apparent 'sufficiently similar' degemination in Catalan is due to coalescence. *LSA* 91.
- E. Baković, L. Blumenfeld. 5/2016. Compound relations between phonological maps: ambivalence and reciprocity. Invited talk, *NAPhC* 9, Montréal.
- E. Baković, L. Blumenfeld, J. Heinz, J. Riggle. 1/2016. Decomposing complex relations between phonological maps. *LSA* 90, Washington, DC.
- G. Caballero. 3/2017. Fieldwork Forum (FForum), UC Berkeley Linguistics.
- G. Caballero. 10/2017. Invited talk, Linguistics Department, University of Chicago.
- G. Caballero, V. Kapatsinski. 4/2017. How agglutinative? Searching for cues to meaning in Choguita Rarámuri (Tarahumara) using an amorphous model. *Workshop on Morphological Typology and Linguistic Cognition*, Linguistic Society of America Summer Institute.
- A. Chong, M. Garellek. 11/2016. Online perception of coda glottalization in American English. *ASA*, Honolulu.
- M. Garellek, S. Seyfarth. 5/2016. Acoustic comparison of /t/ glottalization and phrasal creak. *ASA*, Salt Lake City.
- A. Ritchart, M. Garellek, J. Kuang. 1/2016. Articulatory evidence for breathy voice during nasalization: a cross-linguistic study. *LSA* 90, Washington, DC.
- Z. Hermes, M.-J. Fu, S. Rose, R. Shosted, B. Sutton. 7/2016. Representations of Place and Airstream Mechanism: A real-time MRI study of Tigrinya ejectives. *LabPhon* 15.
- K. Hout. 3/2016. Dominance and Assimilation in Bari. *ACAL* 47.
- B. Keffala, J. Barlow, S. Rose. 6/2016. Interaction in Spanish-English bilinguals' acquisition of English coda clusters. *Int'l Child Phonology Conference*.
- A. G. McCollum, D. Kavitskaya. 4/2017. Non-iterative vowel harmony in Crimean Tatar. *WCCFL* 35.
- A.G. McCollum, J. Essebey. 4/2017. Unbounded harmony is not always myopic: Evidence from Tutrugbu. *WCCFL* 35.
- A. G. McCollum, J. Essebey. 11/2016. Vowel harmony in Tutrugbu: Is it phonology or morphosyntax? UC Berkeley Forum.
- H. Morgan. 1/2016 Language from gesture: A case study from East Africa. *TISLR* 12.
- H. Morgan. 1/2016. The curious case of minimal pairs in sign language. *TISLR* 12.
- H. Morgan. 3/2016. The effect of modality on signal space in natural languages. *EvoLang* 11.
- M. Obiri-Yeboah, S. Rose. 3/2017. Domains and directionality in Gua vowel harmony. *ACAL* 48.
- S. Rose. 9/2017. Invited speaker, *AMP* 2017.
- S. Rose. 3/2016. Areal vowel harmony patterns in the Nuba Mountains and beyond. Keynote talk, *ACAL* 47.
- S. Rose. 5/2016. How phonology and typology are shaped: lessons from fieldwork. Keynote talk, *mfm* 24.

Funding (2016 - present)

- E. Baković, A. Mai. 2016. *Developing a linguistic formalism of rapped verse*. UCSD Academic Senate grant (\$15,000).
- G. Caballero. 2016. *Kumeyaay Field Methods Class*. UC MEXUS Grant (\$1500).
- M. Garellek, A. Ritchart. 2016-2017. NSF Doctoral dissertation grant.
- M. Garellek. 2015-2016. Hellman Fellowship (\$12,000).
- L. Hyman, S. Rose. 2016. UC Humanities Research Institute grant, *Areal Features and Linguistic Reconstruction in Africa Workshop*, UC Berkeley.
- A. McCollum. 2015-2017. *Yazgulyami syllable structure*. NSF DEL-1500802 (\$17,993).
- A. McCollum. 2015-2017. Cota-Robles Fellowship.
- A. McCollum. 2015-2020. Katzin Prize.

Alumni (2003 - 2016)

- Scott Seyfarth**, PhD 2016 (F. Ackerman, M. Garellek) Visiting Asst. Prof., Linguistics, NYU. Thesis: *Contextual and Morphological Effects in Speech Production*
- Page Piccinini**, PhD 2016 (M. Garellek) Postdoc, Département d'Études Cognitives, École Normale Supérieure, Paris. Thesis: *Cross-language Activation and the Phonetics of Code-switching*
- Bethany Keffala**, PhD 2015 (J. Barlow, S. Rose) Postdoc, Comm. Sci. & Dis., Columbia. Thesis: *Learning to Share: Interaction in Spanish-English bilinguals' acquisition of syllable structure and positional phonotactics*
- Lucien Carroll**, PhD 2015 (G. Caballero, E. Baković) Data Quality Engineer, Expect Labs, San Francisco. Thesis: *Ixpantepec Nieves Mixtec Word Prosodic Phonology*
- Rebecca Colavin**, PhD 2013 (S. Rose, R. Levy) Associate Software Engineer, HouseCall Pro, San Diego. Thesis: *Phonotactic probability in Amharic: a psycholinguistic and computational investigation*.
- Bozena Pajak**, PhD 2012 (E. Baković, R. Levy) Learning Scientist, Duolingo. Thesis: *Inductive inference in non-native speech processing and learning*.
- Cynthia Kilpatrick**, PhD 2009 (E. Baković) Asst. Prof., Dept. of Linguistics & TESOL, University of Texas at Arlington. Thesis: *The Acquisition of Ungrammaticality: Learning a Subset in L2 Phonotactics*.
- Nicoleta Bateman**, PhD 2007 (S. Rose) Assoc. Prof., Liberal Studies Dept., CSU San Marcos. Thesis: *A Crosslinguistic Investigation of Palatalization*.
- Alicia Muñoz Sánchez**, PhD 2003 (S. Rose) Spanish Language Academic Coordinator, Linguistics Department, UCSD. 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 (M. Polinsky, S. Rose) Heritage Lg. Initiative Coord., Dept. of World Lgs. & Lits., Portland State. Thesis: *Phonetics of Language Attrition: vowel production and articulatory setting in the speech of Western Armenian heritage speakers*.

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