Phonetics, Phonology, & Fieldwork @ UC San Diego

Who we are and what we're up to, as of February 2018

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.

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

My interests are in phonological theory, and my recent research is concerned with relations and interactions between phonological maps. Most of this recent work is collaborative, with grad students (Hout, Mai, McCollum, Meinhardt) and with colleagues at other institutions (Lev Blumenfeld, Carleton Univ.; Matt Goldrick, Northwestern Univ.).

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

My research focuses on language description and documentation of indigenous languages of the Americas (especially Uto-Aztecan languages), phonology, morphology and their interaction. 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, tone-intonation interactions and grammatical tone.

Yuan Chai, 1st-year grad   (BA, Beijing Normal University; MA, CU Boulder)

My research interests are in phonetics and second language acquisition. I study how people's native language influences their perception and production of second language. My focus is when the linguistic pattern differs between L1 and L2, whether people will transfer the pattern they acquired in L1 into L2, and whether L2 will influence their L1 in return. The languages I work on are mainly Mandarin and English.

Neşe Demir, 1st-year grad   (BA, METU; MA, Syracuse University)

My research areas are phonology, morphology, and the interface between the two. I have worked on partial reduplication in Turkish. My recent projects include the phonetic and phonological analysis of the so-called soft 'g' and affix ordering in Turkish.

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

My interests are in phonetics and laboratory phonology, especially of laryngeal sounds. My work has led to detailed phonetic analyses of diverse languages including Malayalam, Mazatec, Hmong, Tongan, and Yi. I frequently collaborate with electrical engineers and speech-language pathologists, and 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 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 a first-generation sign language from a single extended family whose hearing members speak Tzotzil.

Kati Hout, ABD   (BA, Ohio State; MA, UC San Diego)

My dissertation focuses on phonological exceptionality, with an aim of situating what we refer to as "exceptions" within a larger formal framework of phonology-lexicon interactions. This involves composing a database of attested exceptions, as well as investigating the formal predictions made by existing models. I have also conducted fieldwork on two African languages: Mushunguli/Somali Chizigula (Bantu) and Bari (E. Nilotic).

Yaqian Huang, 1st-year grad   (BA, UIBE; MA, University of Delaware)

My research interests are speech perception and voice. I've probed creaky voice in Mandarin tones under focus conditions and would like to investigate how phonetic cues related to voice quality figure in perceiving linguistic contrasts as well as the native language effect. I'm also trying to draw the line between phonetic realization and phonological category, especially from a neurolinguistic perspective. I wonder how is acoustic information processed in phonological systems?

Anna Mai, 3rd-year grad   (BA, Washington University in St. Louis)

I study the mathematical foundations of phonological formalisms and the neural encoding of speech sounds. Current projects include an ECoG study investigating the neural representation of contrast and neutralization, an algebraic characterization of harmonic grammars, a production experiment on onset contribution to syllable weight, and a corpus study of the prosodic organization of hip-hop verse.

Adam McCollum, ABD   (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. My dissertation examines subphonemic gradience in backness harmony among four Turkic languages, Kazakh, Kyrgyz, Uyghur, and Uzbek. Outside of Turkic, I have ongoing projects on labial and ATR harmony in Tutrugbu (Kwa). My work addresses a range of theoretical topics, including computational complexity, locality, and defining similarity between vowels.

Justin D. McIntosh, Lecturer   (BA, Evergreen; MA, PhD, Austin)

My research focuses on the documentation and description of indigenous languages of Mexico (Otomanguean). I work in collaboration with speakers while considering broader research agendas that include community efforts for language conservation. My interests include tone, grammatical tone and its interaction with the morphology and grammar, archiving, and the creation of digital corpora for linguists and speakers.

Eric Meinhardt, ABD   (BA, University of Rochester)

My interests lie at the intersection of linguistic theory and computational cognitive science: how pressures for communication, learnability, and cultural transmission shape linguistic typology. My dissertation work examines diachronic, phonetic, and functional vs. synchronic, phonological, and (often) nativist explanations for perceptibility effects in phonotactic typology; in collaboration with others, I am also working on how learnability may explain why more computationally complex phonological processes are rarer.

Michael Obiri-Yeboah, 2nd-year grad   (BA, MPhil, University of Ghana)

I am interested in fieldwork, phonology and phonetics with specific interest in speech sounds and tonal properties with their interactions with linguistic theory. I am currently working on domains and directionality of vowel harmony in Gua (a Kwa language under the Tano branch of Ghana) as well as the acoustic properties of its nasal vowels. My previous work on Gua has been on tone marking for Tense, Mood and Aspect.

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

My dissertation is on the production and perception of breathy voice during nasal sounds. My past research has 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 interests are on phonology and interaction with morphology and phonetics. I work primarily on long distance processes (harmony, dissimilation) and tone in African languages, based on primary data collection. I am currently finishing a grammar of the Kordofanian language Moro. I have supervised students 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, 2nd-year grad   (BA, University of Buffalo)

I work on morphology and its interfaces, with a focus on morphological productivity and complexity. I prefer to work with understudied languages, and my current projects are centered on delineating degrees of morphological productivity in ASL, Azerbaijani, and Post-Soviet Sign Language. I am also engaged in the collaborative description and documentation of two languages, Juhuri (SW Iranian) and Koalib (Kordofanian).

AMP 2018
ANNUAL MEETING ON PHONOLOGY
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Phonetics, Phonology, & Fieldwork @ UC San Diego
Selected recent publications, presentations, and funding, and our alumni

Publications (2017 - forthcoming)

Baković, Eric. 2017. Review of *Harmonic Grammar and Harmonic Serialism*. *Phonology* 34.

E. Baković. 2017. Apparent 'sufficiently similar' degemination in Catalan is due to coalescence. *Proc. LSA 91*.

Wm. G. Bennett, S. Rose. 2017. Moro voicelessness dissimilation and binary [voice]. *Phonology* 34.

G. Caballero. Tono y estructura morfológica en el rarámuri de Choguita (Tarahumara). *Proc. CILLA VIII*.

G. Caballero. 2017. Choguita Rarámuri (Tarahumara) language description and documentation: a guide to the deposited collection and associated materials. *LDC* 11.

G. Caballero, Q. Cheng. Marcación de persona en el kumiai de Ja'a. *Proc. CILLA VIII*.

G. Caballero, M. Gordon. Prosody in North American Indian Languages. *The Oxford Handbook of Language Prosody*.

G. Caballero, S. Inkelas. A construction-based approach to Multiple Exponence. *Advances in Construction Morphology*.

B. Chamora, J.-F. Prunet, S. Rose. Inor Group. *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.

A. Chong, M. Garellek. 2018. Online perception of glottalized coda stops in American English. *Laboratory Phonology* 9.

N. Demir. Turkish Reduplicative Adjectives and Adverbs. *Proc. LSA 92*.

J. Essegbey, A. G. McCollum. Purely progressive vowel harmony in Tutrugbu. Under review, *NLLT*.

K. Hout. 2017. Exceptions to Hiatus Resolution in Mushunguli (Somali Chizigula). *Africa's Endangered Languages: Documentary and Theoretical Approaches*. Oxford.

Y. Huang, A. Athanasopoulou, I. Vogel. 2018. The Effect of Focus on Creaky Phonation in Mandarin Chinese Tones. *University of Pennsylvania Working Papers in Linguistics* 24.

P. Jenks, S. Rose. 2017. Documenting control and raising in Moro. *Africa's Endangered Languages: Documentary and Theoretical Approaches*. Oxford.

A. Mai, A. Aguilar, G. Caballero. 2018. Ja'a Kumiai (phonetic illustration). *JIPA*.

A. G. McCollum. 2017. Mayak and the typology of labial harmony. *Proc. AMP 2016*.

A. G. McCollum. Vowel dispersion and Kazakh labial harmony. To appear, *Phonology* 35.

A. G. McCollum. The empirical consequences of data collection methods: A case study from Kazakh vowel harmony. Under review, *Linguistic Discovery*.

A. G. McCollum, D. Kavitskaya. Non-iterative vowel harmony in Crimean Tatar. *Proc. WCCFL 35*.

A. G. McCollum, S. Chen. Kazakh. Under review, *JIPA*.

A. G. McCollum, J. Essegbey. Unbounded harmony is not always myopic: Evidence from Tutrugbu. *Proc. WCCFL 35*.

S. Namboodiripad, M. Garellek. 2017. Malayalam (Namboodiri dialect). *JIPA* 47.

A. Ritchart, S. Rose. 2017. Moro vowel harmony: Implications for transparency and representations. *Phonology* 34.

S. Rose. 2018. ATR Vowel Harmony: new patterns and diagnostics. *Proc. AMP 2017*.

S. Seyfarth, M. Garellek, G. Gillingham, F. Ackerman, R. Malouf. 2018. Acoustic differences in morphologically-distinct homophones. *Language, Cognition and Neuroscience 33*.

Presentations (2017 - upcoming)

E. Baković. 1/2017. Apparent 'sufficiently similar' degemination in Catalan is due to coalescence. *LSA 91*.

E. Baković, L. Blumenfeld. 9/2017. A set-theoretic typology of phonological map interaction. *AMP 2017*.

E. Baković, L. Blumenfeld. 6/2017. A set-theoretic typology of phonological map interaction. Invited talk, UC Santa Cruz.

E. Baković, L. Blumenfeld. 5/2017. A set-theoretic typology of phonological map interaction. *SCAMP 2*.

E. Baković, L. Blumenfeld. 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, K. Hout. 2/2018. Some consequences of different approaches to coalescence. Invited talk, Universität Leipzig.

E. Bird, M. Garellek. 2017. Voice quality variation over the course of the English utterance. *ASA*.

G. Caballero. 10/2017. Tono y estructura morfológica en el rarámuri de Choguita (Tarahumara). *CILLA VIII*.

G. Caballero. 10/2017. Tone and inflection in Choguita Rarámuri (Tarahumara): implications for the typology and theory of morphological tone. Invited talk, U. Chicago.

G. Caballero. 3/2017. Writing grammars: tone and morphological structure in Choguita Rarámuri (Uto-Aztecan). Invited talk, UC Berkeley Fieldwork Forum.

G. Caballero, V. Kapatsinski. 7/2017. How agglutinative? Searching for cues to meaning in Choguita Rarámuri (Tarahumara) using an amorphous model. *Workshop on Morphological typology and linguistic cognition, LSA Linguistic Institute*.

G. Caballero, Q. Cheng. 10/2017. Marcación de persona en el kumiai de Ja'a: composicionalidad, homofonía y neutralización. *CILLA VIII*.

G. Caballero, M. Garellek. 6/2018. Multidimensional tonal realization and prosodic variation in Choguita Rarámuri (Tarahumara). *LabPhon 16*.

Y. Chai. 2/2018. Less proficient, more gestures? *BLS 44*.

N. Demir. 1/2018. Turkish Reduplicative Adjs. and Advs. *LSA 92*.

N. Demir. 11/2017. Turkish Reduplicative Adjs. and Advs. *Tu+3*.

K. Hout. 9/2017. Exceptional non-triggers in Bijagó. *AMP 2017*.

K. Hout. 1/2018. Complex exceptional palatalization in Mushunguli. *LSA 92*.

Y. Huang, A. Athanasopoulou, I. Vogel. 3/2017. The Effect of Focus on Creaky Phonation in Mandarin Chinese Tones. *PLC 41*.

D. Kaufman, H. Borjian, D. Barry, R. Perlin, K. Rafailov, M. Zaslansky. 4/2017. Endangered Iranian Lgs. in NYC. *NACIL 1*.

A. Mai. 12/2017. Phonetic effects of onset complexity on the English syllable. *ASA 174*.

A. Mai, E. Baković, M. Goldrick. 1/2018. Phonological opacity as local optimization in Gradient Symbolic Computation. *SCiL 1*.

A. Mai, M. Garellek. 5/2017. Tone and phonation in Green Mong song. *SCAMP 2*.

A.G. McCollum, E. Baković, A. Mai, E. Meinhardt. 10/2017. Conditional blocking in Tutrugbu requires non-determinism: Implications for the subregular hypothesis. *NELS 48*.

A.G. McCollum, J. Essebey. 4/2017. Unbounded harmony is not always myopic: Evidence from Tutrugbu. *WCCFL 35*.

A. G. McCollum, D. Kavitskaya. 4/2017. Non-iterative vowel harmony in Crimean Tatar. *WCCFL 35*.

E. Meinhardt. 1/2017. Non-stationarity and other critical mathematical problems for channel coding-based explanations of variation in language production. *LSA 91*.

E. Meinhardt, R. Malouf, F. Ackerman. 7/2017. Morphology gets more and more complex, unless it can't. *Workshop on Morphological Typology & Linguistic Cognition*, LSA Linguistic Institute.

M. Obiri-Yeboah. 8/2018. Acoustic analyses of Gua Nasal and 'Nasalized' Vowels. *WOCAL 9*.

M. Obiri-Yeboah. 8/2017. Tone Melody and TMA Marking in Gua. *West African Lgs. Congress & Ling. Assoc. of Ghana Conference*.

M. Obiri-Yeboah, S. Myers, K. Berkson. 3/2018. Tongue Root Contrasts in Gua: Evidence from Articulatory Imaging. *ACAL 49*.

M. Obiri-Yeboah, S. Rose. 1/2018. Domains in Gua vowel harmony. *LSA 92*.

M. Obiri-Yeboah, S. Rose. 5/2017. Domains and directionality in Gua vowel harmony. *SCAMP 2*.

M. Obiri-Yeboah, S. Rose. 3/2017. Domains and directionality in Gua vowel harmony. *ACAL 48*.

I. Nip, M. Garellek. 11/2017. Voice quality analysis of children with cerebral palsy during sustained phonation and story retell. *ASHA*.

I. Nip, M. Garellek. 7/2017. Voice quality analysis of children with cerebral palsy during sustained phonation and story retell. *SMC 7*.

A. Ritchart-Scott. 6/2018. Perceptual enhancement of nasalized vowels through increased breathiness. *LabPhon 16*.

S. Rose. 8/2017. The scope of phonology: lessons from ideophones and vowel harmony. Invited talk, Univ. of Khartoum.

S. Rose. 9/2017. ATR vowel harmony typology: inventory-driven patterns. Invited talk, Goethe-Universität, Frankfurt.

S. Rose. 9/2017. The typology of vowel harmony in Nuba Mountain Languages. *3rd Nuba Mountains Languages Conference*.

S. Rose. 9/2017. ATR harmony: new patterns and diagnostics. Invited speaker, *AMP 2017*.

S. Seyfarth, J. Vander Klok, M. Garellek. 12/2017. Acoustics of the tense-lax contrast in Semarang Javanese. *ASA 174*.

R. Shosted, S. Rose, B. Sutton. 1/2018. Articulatory aspects of Tigrinya's ejective fricatives. *LSA 92*.

M. Zaslansky. 3/2018. Reinforcement in Azerbaijani valence-increasing morphology: A corpus study of suffix regularity. *ConCALL-3*.

M. Zaslansky. 11/2017. Northern Azerbaijani Sesqui-Causative Constructions. *Tu+3*.

Alumni (2003 - 2017)

Scott Seyfarth, PhD 2016 — (F. Ackerman, M. Garellek) Postdoc, Department of Linguistics, Ohio State University. Thesis: *Contextual and Morphological Effects in Speech Production*.

Page Piccinini, PhD 2016 — (M. Garellek) Data scientist, Classy, San Diego. Thesis: *Cross-language Activation and the Phonetics of Code-switching*.

Bethany Keffala, PhD 2015 — (J. Barlow, S. Rose) Postdoc, Communication Sciences & Disorders, Columbia Univ. 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) Ind. web developer, San Diego. Thesis: *Phonotactic probability in Amharic: a psycholinguistic and computational investigation*.

Hope Morgan, PhD 2017 — (R. Mayberry, S. Rose) Postdoc, Sign Lg. Research Lab, University of Haifa. Thesis: *The Phonology of Kenyan Sign Language (Southwestern Dialect)*.

Bozena Pajak, PhD 2012 — (E. Baković, R. Levy) Learning Scientist, Duolingo, Pittsburgh, PA. Thesis: *Inductive inference in non-native speech processing and learning*.

Cynthia Kilpatrick, PhD 2009 — (E. Baković) Asst. Prof. in Practice & Interim Director, English Lg. Inst., Dept. of Ling. & TESOL, Univ. of Texas at Arlington. Thesis: *The Acquisition of Ungrammaticality: Learning a Subset in L2 Phonotactics*.

Nicoleta Bateman, PhD 2007 — (S. Rose) Associate Professor, Liberal Studies Department, CSU San Marcos. Thesis: *A Crosslinguistic Investigation of Palatalization*.

Alicia Muñoz Sánchez, PhD 2003 — (S. Rose) Spanish Lg. Acad. Coord., Linguistics, 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 — (M. Polinsky, S. 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*.