

Robert Daland

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EMPLOYMENT

2009-present Assistant Professor of Linguistics, UCLA

RESEARCH INTERESTS

Most of my current work is focused on the following three questions:

- (1) what do infants and adults know about the sound system of their language?
- (2) how do they learn what they know?
- (3) how do listeners use what they know in speech comprehension?

Topics I have worked on include

- phonetic category learning
- acquisition of word segmentation
- wordform learning
- statistical learning of paradigm gaps
- grammatical epenthesis (perceptual)
- intelligibility of bilinguals

I generally test proposed explanations for language behavior using a combination of:

- a. formal assumptions/apparatus of linguistic theory
- b. cognitive/computational models
- c. psycholinguistic experiments

Phonotactics acquisition, modeling, word segmentation, word recognition, word learning
Language learning/change statistical learning, multi-agent models, L1/L2/bilingualism
Russian morphophonology paradigmatic gaps

EDUCATION

PhD, Linguistics, 2009	Northwestern University (Evanston, IL)
MS, Mathematics, 2001	North Carolina State University (Raleigh, NC)
BA, English, 2001	North Carolina State University (Raleigh, NC)
BS, Mathematics, 2000	North Carolina State University (Raleigh, NC)
High school	NC School of Science and Mathematics (Durham, NC)

PROFESSIONAL SOCIETIES

Linguistic Society of America Association for Computational Linguistics

SERVICE

Ad-hoc reviewer, Bilingualism: Language and Cognition, 2010-present
Ad-hoc reviewer, Cognitive Science, 2010-present
Ad-hoc reviewer, Journal of Morphology, 2010-present
Ad-hoc reviewer, Journal of Statistical Mechanics: Theory and Experiment, 2007-2010
Ad-hoc reviewer, Language Development and Change, 2010-present

Ad-hoc reviewer, Phonology, 2009-present

HONORS AND AWARDS

2008-2009 Dissertation-Year Fellowship, Northwestern University
2004-2005 Cognitive Science Fellowship, Northwestern University
1997 Phi Beta Kappa

PUBLICATIONS

In progress

Daland, R. (under revision). Sources of variation in input frequencies.

Cristia, A., Daland, R., Mielke, J., & Peperkamp, S. (submitted). Constrained generalization of implicitly learned sound patterns.

Pierrehumbert, J.B., Stonedahl, F., & Daland, R. (submitted). Change from below in social and linguistic systems.

Sims, A.D., Daland, R., and Pierrehumbert, J. (manuscript). A 'paradigm' case of implicit learning.

Journal articles

Oh, M. & Daland, R. (2011). Word-initial stops in Korean and English monolinguals and bilinguals. *Linguistic Research* 28(3), 625-634.

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

Daland, R. & Pierrehumbert, J.B. (2011). Learning diphone-based segmentation. *Cognitive Science*, 35(1), 119-155.

Goldrick, M. & Daland, R. (2009). Linking speech errors and phonological grammars: Insights from Harmonic Grammar networks. *Phonology*, 26(1) (special issue on connecting theory and experimental methods), 147-185.

Conference proceedings

Daland, R. & Oh, M. (2011). Stops and phrasing in Korean and English monolinguals and bilinguals. *Proceedings of the XVIIth International Conference of the Phonetic Sciences in Hong Kong*.

Daland, R., Sims, A.D., & Pierrehumbert, J.B. (2007). Much ado about nothing: A social network model of Russian paradigmatic gaps. *Paper presented at the 47th Annual Meeting of the Association for Computational Linguistics in Prague, June 23rd–June 30th.*

TALKS

Conference presentations

Daland, R. & Abner, N. (2012). Testing prerequisites for prosodic bootstrapping. *Presented at the 86th annual meeting of the Linguistic Society of America in Portland, Oregon, January 5-8, 2012.*

Daland, R., van Leeuwen, A., McPherson, L., Garellek, M., Wemhaner, D., Tseng, M., & Kuang, J. (2011). Phonological effects in wordform learning. *Presented at the “Testing models of phonetics and phonology” workshop of the Linguistic Institute 2011 at the University of Colorado at Boulder, July 13th, 2011.*

Daland, R. (2010). Learning metrical segmentation: the problem of function words. *Presented at the Workshop on Computational Modeling of Sound Pattern Acquisition at the University of Alberta, Edmonton, Canada, February 13-14.*

Daland, R. (2009). Diphone-based word segmentation in Russian and English. *Presented at the 2009 Annual Meeting of the Linguistic Society of America in San Francisco, CA, January 8–11.*

Daland, R. & Pierrehumbert, J. (2008). Language variation: Convergence, divergence, and death. *Workshop on Complex Systems and Language at the University of Arizona, April 25-26.*

Daland, R. (2008). Word segmentation in Russian and English: A computational comparison. *Presented at the Third Annual Meeting of the Slavic Linguistics Society in Columbus, Ohio, June 10–12.*

Sims, A. D. & Daland, R. (2008). Modeling inflectional defectiveness as usage-based probability: Lessons from Modern Greek. *Paper presented at the Defective Paradigms Conference in London, England, April 10–11.*

Maye, J., Daland, R., & Goldrick M. (2008). Phonological context as a cue to phonetic identity. *Paper presented at the 2008 Annual Meeting of the Linguistic Society of America in Chicago, IL, January 3–6.*

Sims, A. D., Daland, R., & Pierrehumbert, J. B. (2007). Learning defectiveness: Russian verbal gaps and implicit negative evidence. *Paper presented at the 2nd Annual Meeting of the Slavic Linguistics Society in Berlin, Germany, August 22–26.*

Goldrick, M., & Daland, R. (2007). Linking grammatical principles with experimental speech production data: Insights from Harmonic Grammar networks. *Presented at Experimental Approaches to Optimality Theory Workshop in Ann Arbor, Michigan, May 18–20.*

Daland, R., Goldrick, M., & Maye, J. (2006). A single statistical mechanism can learn both segments and phonotactics. *Symposium presentation at the International Conference on Infant Studies in Kyoto, Japan, June 19–23.*

Invited talks

Daland, R. (2010). Phonotactics in word segmentation and word recognition. *Invited talk presented to the UC-Irvine Cognitive Science Colloquium series, March 10th.*

Daland, R. (2010). Phonotactics in word recognition. *Invited talk presented to the Southern California Undergraduate Linguistics Conference, April 10th.*

Daland, R. (2010). Phonotactics in word recognition. *Invited talk presented to the University of Southern California Linguistics Colloquium series, April 19th.*

Daland, R. (2010). Phonotactics in word recognition. *Invited talk presented to the UCSD Linguistics Colloquium Series, May 17th.*

Daland, R., and Sims, A.D. (2007). Much ado about nothing: A social network model of Russian paradigmatic gaps. *Talk presented at Northwestern Institute on Complex Systems (NICO), June 6th.*

Daland, R. & Pierrehumbert, J.B. (2007). Rate-dependent dynamics of grammatical diffusion on social networks. *Invited talk presented at the NU/EHESS workshop on Dynamics and Complexity in People and Societies at Northwestern University, October 23rd.*

Pierrehumbert, J.B. & Daland, R. (2007). Persistence in morphology and phonology. *Invited talk presented at the Toyota Technological Institute at Chicago, July 25th.*

TEACHING

UCLA

- LING 120A Phonology I (Undergraduate)
- LING 165A Phonology II (Undergraduate)
- LING 200A Phonological Theory I (Graduate)
- LING 217 Experimental Phonology
- LING 236 Computational Phonology

Northwestern (curriculum design and TA only)

- MATH 395 Statistical Network Dynamics (Language, Epidemiology, Culture)

- LING 342 Structure of Russian (Laboratory phonology).

NCSU

- MATH 110 Precalculus
- MATH 105 Financial Mathematics