

## Robert Daland

Department of Linguistics, Northwestern University  
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### Research Interests

**Topics** Word segmentation, language learning (statistical learning, L1/L2 acquisition), phonological interfaces (phonetics, morphology, and syntax), language change  
**Methods** Computational modeling, Human behavioral research  
**Languages** English (native), Russian (limited oral proficiency), French (reading proficiency)  
**Dissertation** Plausibility of diphone-based word segmentation in English and Russian

### Education

PhD, Linguistics Northwestern University (Evanston, IL)  
2003-present Cognitive Science specialist

MS, Mathematics North Carolina State University (Raleigh, NC)  
1999-2001 Concentration: Topology and Chaotic dynamical systems

BA, English Literature North Carolina State University (Raleigh, NC)  
1997-2001 *Magna cum laude*, Religious studies minor

BS, Mathematics North Carolina State University (Raleigh, NC)  
1996-2000 *Magna cum laude*, Phi Beta Kappa

Graduate of North Carolina School of Science and Mathematics (Durham, NC)

### Teaching Experience

#### *Linguistics*

TA for Language, Politics, and Identity (Balkans)  
TA for Structure of Russian (Acoustic phonetics). Assisted with curriculum design, lab design, recording material for labs, project design, and exam revision.  
TA for Statistical Network Dynamics (interdisciplinary course on Language, Economics, and Neuroscience). Assisted with curriculum design, lab design, and project design.

#### *Mathematics*

Precalculus  
Financial Math. Revised curriculum.  
TA for Multivariable Calculus, Precalculus, and Finite Math

#### *Slavic studies*

TA for History of Eastern Europe, USSR and Successor States, Introduction to Russian Literature, and 19th-century Russian Literature.

## Professional Skills

<i>Natural languages</i>	English (native), Russian (basic oral), French (reading)
<i>Programming</i>	Python, C/C++, Praat scripting, Tcl/Tk, assembly, Java
<i>Modeling</i>	Lens, NetLogo
<i>Experiments</i>	E-prime, BabySpeech, Praat

## Honors and Awards

Northwestern University Dissertation Year Fellowship, 2008-2009  
*Plausibility of diphone-based word segmentation in English and Russian*

Northwestern University Cognitive Science Fellowship, 2004-2005  
*Statistical learning and infant acquisition of speech sound categories*

Phi Beta Kappa, 1997

## Professional Societies

Linguistic Society of America  
Association for Computational Linguistics  
International Society on Infant Studies

## Professional Service

Liaison to Language and Music Systems (NICO), 2008-present  
Ad-hoc reviewer, *Journal of Statistical Mechanics: Theory and Experiment*, 2007-present  
Graduate Student Association Liaison, Northwestern Linguistics Department, 2004-present  
Applicant Coordinator, Northwestern Linguistics Department, 2006-7  
Socials & Reception Committee, Northwestern Linguistics Department, 2003-5  
Invited Speaker Liaison, Northwestern Linguistics Department, 2004-5 & 2007-9

## Publications

### *In preparation*

Daland, R., Goldrick, M., and Maye, J. (submitted). Overlapping acquisition of multiple levels of linguistic structure in a statistical learning mechanism.

### *Journal Articles and Conference proceedings*

Goldrick, M. & Daland, R. (in press). Linking speech errors and phonological grammars: Insights from Harmonic Grammar networks. *Special Issue of Phonology: Relations Between Phonological Models and Experimental Data*.

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*.

### **Conference presentations**

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

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

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.*

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.*

### **Posters and invited talks**

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 6.*

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 23.*

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