

# CURRICULUM VITAE

Melissa Annette Redford

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## DEGREES

Ph.D. in Psychology, University of Texas at Austin, 1999 (December).

Thesis: "An articulatory basis for the syllable"

M.A. in Linguistics, University of Texas at Austin, 1995.

B.A. in Anthropology, University of California in Berkeley, 1992.

## ACADEMIC EXPERIENCE

Associate Professor, Department of Linguistics, University of Oregon, 2009—present.

Assistant Professor, Department of Linguistics, University of Oregon, 2002—2009.

NIH Post-Doctoral Fellow, Department of Computer Sciences, University of Texas at Austin, 2000—02.

## RESEARCH STATEMENT

My research focuses on language production, especially on the process from sound pattern retrieval to articulation. In one line of work, I use articulatory, acoustic, and psycholinguistic measures to investigate the structure of the speech plan and the parameters that control rate, emphasis, and style changes in spoken language. In another line of work, I use clinical assessment tools as well as acoustic and psycholinguistic measures to investigate how language and nonlanguage subsystems interact to support the acquisition of prosodically-related temporal patterns. The long term goal of my research is to build a developmentally-sensitive model of language production, meant to frame our understanding of speech timing in children and adults.

## GRANTS, FELLOWSHIPS & AWARDS

### External

PI, Research Project Grant (R01), 2009—14.

"The Acquisition of Temporal Patterns in Child Speech and Language"

National Institute of Child Health and Human Development (1 R01 HD061458-01).

Total award: \$1,392,746.

National Research Service Award (NRSA), 2000—02.

"The Source of Cross-Language Variation in Syllable Systems"

National Institute of Deafness and Other Communicative Disorders (5 F32 DC00459).

Graduate Research Fellowship

National Science Foundation (NSF), 1995—98.

## **Internal**

Summer Research Award

University of Oregon, tenured & non-tenured faculty competition, 2003.

Professional Development Awards

University of Oregon, 2003, 2004, 2005, 2006, 2007.

Hutchinson Fellowship

University of Texas at Austin, 1 award per college, 1998–99.

Bruton Fellowship

University of Texas at Austin, 1996, 1997.

Professional Development Awards

University of Texas at Austin, 1995, 1996, 1998, 1999.

## **PEER-REVIEWED PUBLICATIONS**

### **Journal Articles**

Redford, M.A., Gildersleeve-Neumann, C.E. (in press). The development of distinct speaking styles in preschool children. *Journal of Speech, Language, and Hearing Research*.

Redford, M.A. (2008). Production constraints on learning novel onset phonotactics. *Cognition*, **107**, 785–816.

Redford, M.A., Miikkulainen, R. (2007). Rate effects on structure in a source-filter model of phonological development. *Language* **83**, 737–69.

Redford, M.A., Gildersleeve-Neumann, C.E. (2007). The acquisition of two phonetic cues to word boundaries. *Journal of Child Language* **34**, 815–43.

Redford, M.A. (2007). Word-internal versus word-peripheral consonantal duration patterns in three languages. *Journal of the Acoustical Society of America* **121**, 1665–78.

Redford, M.A., Randall, P. (2005). The role of juncture cues and phonological knowledge in English syllabification judgments. *Journal of Phonetics* **33**, 27–46.

Redford, M.A., Davis, B.L., Miikkulainen, R. (2004). Phonetic variability and prosodic structure in motherese. *Infant Behavior and Development* **27**, 477–98.

Redford, M.A., Chen, C.C., Miikkulainen, R. (2001). Constrained emergence of universals and variation in syllable systems. *Language and Speech* **44**, 27–56.

Redford, M.A., Diehl, R.L. (1999). The relative perceptual distinctiveness of initial and final consonants in CVC syllables. *Journal of the Acoustical Society of America* **106**, 1555–65.

Redford, M.A., MacNeilage, P.F., Davis, B.L. (1997). Production constraints on utterance-final consonant characteristics in babbling. *Phonetica* **54**, 172–86.

### **Refereed Proceedings**

Redford, M.A., Gildersleeve-Neumann, C.E. (2007). Children's clear speech suggests word-level targets: preliminary evidence. In Trouvain, J., Barry, W.J. (eds.), *Proceedings from the 16th International Congress of Phonetic Sciences, (ICPhS-07 Saarbrücken, Germany)*, pp. 365–68.

Doty, C. Redford, M.A. (2007). Stress and boundary effects on anticipatory and preservatory nasal airflow. In Trouvain, J., Barry, W.J. (eds.), *Proceedings from the 16th International Congress of Phonetic Sciences, (ICPhS-07 Saarbrücken, Germany)*, pp. 985–88.

Redford, M.A., Chen, C.C., Miikkulainen, R. (1998). Modeling the emergence of syllable systems. In Gernsbacher, M.A., Derry, S.J. (eds.), *Proceedings of the 20th Annual Meeting of the Cognitive Science Society, (COGSCI-98 Madison, WI)*, pp. 882-886. Hillsdale, NJ: Erlbaum.

## **OTHER PUBLICATIONS**

### **Book Chapters**

Redford, M.A., van Donkelaar, P. (2008). Jaw cycles and linguistic syllables in adult English. In Davis, B.L., Zajdo, K. (eds.), *The Syllable in Speech Production: Perspectives on the Frame/Content Theory* (pp. 355-76). London: Taylor & Francis.

Cohen, L.B., Amsel, G., Redford, M.A., Casasola, M. (1998). The development of infant causal perception. In Slater, A. (ed.), *Perceptual Development: Visual, Auditory, and Speech Perception in Infancy* (pp. 167-209). London: Taylor & Francis.

### **Proceedings**

Redford, M.A. (2004). Origin of consonant duration patterns. In Agwuele, A. Warren, W., Park, S-H. (eds.) *Proceedings from the 8th Annual Texas Linguistics Society Conference: Coarticulation in Speech Production and Perception*, pp. 54–61. Cascadilla Press.

Redford, M.A. (2003). Cognitive template for a phonetic correlate of syllable structure. In Solé, M.J., Recasens, D., Romero, J. (eds.), *Proceedings from the 15th International Congress of Phonetic Sciences, (ICPhS-03 Barcelona, Spain)*, pp. 2261–64. Casual Productions.

Redford, M.A. (1999). The mandibular cycle and reversed-sonority onset clusters in Russian. In Ohala, J.J., Hasegawa, Y., Ohala, M., Granvill, D., Bailey, A.C. (eds.), *Proceedings from the 14th International Congress of Phonetic Sciences, (ICPhS-99 San Francisco, USA)*, pp. 1893-1896. American Institute of Physics.

### **Technical Report**

Redford, M. A., Miikkulainen, R. (2001). Abrupt and Gradual Sound Change in an Expanding Lexicon. The University of Texas at Austin, Department of Computer Sciences. AI Technical Report 01-289. June 2001. 24 pages.

## **PRESENTATIONS**

### **Invited talks**

Redford, M.A. (July, 2009). Syllables in adult speech and language. *Center for Spoken Language Understanding, Oregon Health Sciences University, Portland, OR.*

Redford, M.A. (April, 2008). Meaning and mechanics in speech and language acquisition. *First Annual Complex Systems & Language Workshop, Tucson, AZ.*

Redford, M.A. (June, 2007). How boundary phenomena illustrate meaning and mechanics in speech production. *Hangyang University and The University of Oregon Linguistics Faculty Symposium*, Seoul, Korea.

Redford, M.A. (August, 2003). Phonetic and phonological consequences of an asymmetric jaw cycle. *Ontogeny and Phylogeny of Syllable Organization*, a satellite conference to the 15<sup>th</sup> International Congress of Phonetic Sciences, Barcelona, Spain.

Redford, M.A. (September, 2000). Emergence of variation between syllable systems. *6th International Conference on the Simulation of Adaptive Behavior*, Paris, France.

### **Conference presentations**

Redford, M.A. (June, 2009). Some comparative data on pausing in child and adult story telling. *International Child Phonology Conference*, Austin, Texas.

Oh, G., Redford, M.A. (May, 2009). The effect of boundary recoverability on geminate length in English. *157<sup>th</sup> Meeting of the Acoustical Society of America*, Portland, Oregon.

Redford, M.A., Barbosa, A.V., Vatikiotis-Bateson, E. (May, 2009). Comparing contrastively focused and clear speech productions of color terms. *157<sup>th</sup> Meeting of the Acoustical Society of America*, Portland, Oregon.

Redford, M.A. (June, 2008). Interactions between timing and intonation in the spontaneous speech of 5-year-olds. *International Child Phonology Conference*, West Lafayette, Indiana.

Oh, G., Redford, M.A. (January, 2008). Length as a target for fake geminates in English. *82nd Meeting of the Linguistics Society of America*, Chicago, IL.

Doty, C., Redford, M.A. (August, 2007). Stress and boundary effects on anticipatory and preservatory nasal airflow. *16th International Congress of Phonetic Sciences*, Saarbrücken, Germany.

Redford, M.A., Gildersleeve-Neumann, C.E. (August, 2007). Children's clear speech suggests word-level targets: preliminary evidence. *16th International Congress of Phonetic Sciences*, Saarbrücken, Germany.

Notestine, L.S., Redford, M.A. (November, 2006). Interactions of verbal ability and morphological processing in the English mental lexicon. *7th Conference of the High Desert Linguistics Society*, Albuquerque, NM.

Redford, M.A., Gildersleeve-Neumann, C.E. (June, 2006). Exploring vowel representation via preschool children's register shifts. *10th Conference on Laboratory Phonology*, Paris, France.

Redford, M.A., Gildersleeve-Neumann, C.E. (June, 2006). The acquisition of two phonetic cues to word boundaries. *5th International Conference on Speech Motor Control*, Nijmegen, The Netherlands.

Redford, M.A. (May, 2005). Temporal evidence against the production of word-internal syllable structure. *149th Meeting of the Acoustical Society of America*, Vancouver, BC, Canada.

Redford, M.A. (June, 2004). Phonological differences emerging from slow versus fast lexicon expansion. *9th Conference on Laboratory Phonology*, Champagne-Urbana, IL.

Redford, M.A. (August, 2003). Cognitive template for a phonetic correlate of syllable structure. *15th International Congress of Phonetic Sciences*, Barcelona, Spain.

- Redford, M.A. (March, 2003). Origin of the segment duration pattern associated with onset clusters. *7th Texas Linguistics Society*, Austin, TX.
- Redford, M.A. (January, 2003). The relationship between syllable structure and segment duration patterns in Finnish. *77th Meeting of the Linguistics Society of America*, Atlanta, GA.
- Redford, M.A., Davis, B.L., Miikkulainen, R. (November, 2001). Distinctiveness of disyllables in the phrases of spontaneous infant-directed speech. *26th Boston University Conference on Language Development*, Boston, MA.
- Redford, M.A., Davis, B.L. (November, 2001). The distinctiveness of segmentation cues in spontaneous infant-directed speech. *2001 Convention of the American Speech-Language-Hearing Association*, New Orleans, LA.
- Redford, M.A. (August, 1999). The mandibular cycle and reversed-sonority onset clusters in Russian. *14th International Congress of Phonetic Sciences*, San Francisco, CA.
- Redford, M.A. (January, 1999). Enhanced perceptual distinctiveness of voiceless fricatives as a function of context. *73rd Meeting of the Linguistics Society of America*, Los Angeles, CA.
- Redford, M.A., Chen, C.C., Miikkulainen, R. (August, 1998). Modeling the emergence of different syllable structure systems. *20th Meeting of the Cognitive Science Society*, Madison, WI.
- Redford, M.A., Chen, C.C., Miikkulainen, R. (April, 1998). Constrained evolution of syllable systems. *2nd Evolution of Language Conference*, London, England.
- Redford, M.A., Cohen, L.B. (August, 1997). Infants' conceptual understanding and organization of agents and patients. *19th Cognitive Science Conference*, Palo Alto, CA.
- Redford, M.A., Diehl, R.L. (December, 1996). A study on the relative perceptibility of syllable-initial and syllable-final consonants. *132nd Meeting of the Acoustical Society of America*, Honolulu, HA.
- Redford, M.A., Cohen, L.B. (April, 1996). Infants' conceptual understanding of agents and patients. *10th Meeting of the International Society on Infant Studies*, Providence, RI.
- Redford, M.A. (January, 1995). Determinants of final-consonants in the CVC syllables of infant babbling. *69th Meeting of the Linguistics Society of America*, New Orleans, LA.

### **TEACHING (2002—present)**

- LING 101: Introduction to Language (S '03, F '03)
- LING 162: Nature vs. Nurture in Language (S '05, F '05, F '06)
- LING 199: Evolution of Language (F '04)
- LING 202: Language Learning & Change (S '09)
- LING 407/507: Prosody in Production (S '08)
- LING 407/507: Psycholinguistics Seminar (F '04)
- LING 411/511: Introduction to Phonetics (W '03, W '04, W '07, W '08)
- LING 450/550: Introduction to Phonology (S '03, S '04, S '05, S '06, S '07, S '08, S '09)

LING 490/590: Introduction to Sociolinguistics (W '06, W '07, W '08)

LING 607: Speech Production and Perception (W '03)

LING 614: Theory of (Laboratory) Phonology (F '05, F '06, F '07)

LING 621: Empirical Methods in Linguistics (W '08)

## **Theses**

### *Ph.D.*

underway. Irina Shport, *The Perception of Prosodic Prominence in American English, Japanese and Mandarin languages* (Member).

underway. Kyoung-ho Kang, *The Effect of Clear and Casual Speaking Styles on the Production and Perception of the Korean Stop Contrast* (Member).

2006. Lee Waters (College of Education), *The Effect of Socializing with Hard-of-Hearing Peers on the Self-Advocacy of Hard-of-Hearing School-Aged Children*, (Member).

### *M.A.*

2009. Jennifer Piotrowski, *Information Structure of Clefts in Spoken English* (Member).

2007. Lewis Notestine, *Implicit and Explicit Morphological Processing Strategies in English*, (Principal Advisor).

2005. Modesta Minthorn, *Sonority and the Umatilla Syllable*, (Principal Advisor).

## **SERVICE**

### **Internal**

#### *University*

Child Care & Family Support Committee:

Member (2007–08)

Chair (2008–09)

University of Oregon Senate:

Member (2007–09)

Senate Executive Committee (2008–09)

Ad hoc Presidential Search Committee (UO Senate Subcommittee, 2009)

Academic Affairs Workgroup:

Summer session review (2009)

#### *Departmental*

Curricular Committees:

Undergraduate curriculum (2008)

Psycholinguistics tract (2003)

Phonetics & Phonology tract (2003)

Departmental Umbrella Research Protocol PI (Administrator):

“Language Consultation” (2004–2008)

“Nonnative Speakers’ Pronunciation and Grammaticality Judgments” (2008–present)

“Laboratory Speech and Language” (2008–present)

Graduate Student Organizers of Linguistic Colloquia, Faculty Advisor (2005–present)

Faculty Search Committees:

Chinese Flagship Director (2007–08)

Visiting Assistant Professor in Cognitive Linguistics (2007, 2008)

Tenure-line Assistant Professor in Experimental Linguist (2008–09)

Graduate Student Travel Committee, Chair (2004–present)

Human Subjects Unit Reviewer (2003–07)

Library Liason (2008–present)

New Graduate Student Orientation (LING 608, Fall 2007)

*Community*

Technical Advisor for South Eugene High School:

Senior Projects in Linguistics (2006, 2007, 2008)

**External**

*Ad hoc journal reviewer for*

Adaptive Behavior

Cognition

Journal of the Acoustical Society of America

Journal of English Linguistics

Journal of the International Phonetic Association

Journal of Machine Learning

Journal of Phonetics

Journal of Speech, Language, and Hearing Research

Language and Speech

Phonology

Speech Communication

*Ad hoc conference abstract/proceedings reviewer for*

37<sup>th</sup> Annual Conference on African Linguistics (ACAL 2006)

2008 IEEE World Congress on Computational Intelligence (WCCI 2008)

157<sup>th</sup> Meeting of the Acoustical Society of America (TPOM for Speech Communications)

**ASSOCIATION MEMBERSHIPS**

Acoustical Society of America

Cognitive Science Society

International Phonetics Association

Linguistics Society of America