

## *Curriculum Vitæ*

### **C. Anton Rytting**

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### **Research Interests**

Language acquisition, speech recognition, computational models of language processing, machine learning, Greek, Arabic.

### **Education**

#### *Degrees*

- 2007 Ph.D. in Linguistics  
The Ohio State University, Columbus, Ohio  
Dissertation Title: *Preserving Subsegmental Variation in Modeling Word Segmentation*
- 2000 B.A. in Linguistics, *university honors, summa cum laude*  
Brigham Young University, Provo, UT  
Minors in Classics, Computers in the Humanities  
Honors Thesis Title: *Semantic Class Disambiguation in Natural Language Soar*

#### *Academic Honors and Awards*

- 2001-2004 NSF Graduate Research Fellowship (3-year award: tuition + stipend)
- 2000 Phi Kappa Phi National Fellowship (1-year award)
- 2000-2001, 2004-2006 Dean's Distinguished University Fellowship (3-year award: tuition + stipend)  
(The highest university fellowship award at The Ohio State University)
- 1998, 1999, 2000 Three \$1000 stipends for independent research:  
1998 Infinitive Clauses and Small Clauses in Classical Latin Prose  
1999 An Empirical Test of an Analogical Approach to the k/Ø Alternation in Turkish  
2000 WordNet and NL-Soar: Fitting the Lexicon into Cognition  
(Awarded by the BYU Office of Research and Creative Activities)
- 1998 First Place, Maurine Dallas Watkins translation contest  
Latin and Ancient Greek
- 1994-1995, 1997-2000 Presidential (Ezra Taft Benson) Scholarship (4-year award: tuition + stipend)  
(The highest university scholarship awarded at Brigham Young University)
- 1994-95, 97-2000 Robert C. Byrd Scholarship (4-year award)

#### *Language Experience*

Proficiency in Modern Greek (reading, writing, and speaking)  
Reading knowledge of Latin, Ancient Greek  
Intermediate knowledge of Arabic (Standard written and spoken Egyptian)  
Beginning knowledge of American Sign Language, Spanish

## ***Programming Experience***

C, Java, Perl, Prolog, Python

Familiar with the AT&T FSM Toolkit, E-Prime, HTK, Praat, Pyro/Conx, QuickNet, R, Soar, SONIC, SPSS, and Wavesurfer

## **Peer-Reviewed Publications**

### ***Book Chapters***

- 2006            An operator-based account of semantic processing. In *Acquisition and Representation of Word Meaning: Theoretical and Computational Perspectives*, ed. by Alessandro Lenci, Simonetta Montemagni, and Vito Pirrelli, Vol. XXII-XXIII in series *Linguistica Computazionale*, pp. 117-137, Pisa/Roma: Istituti Editoriali e Poligrafici Internazionali. Co-author: Deryle Lonsdale.
- 2002            An empirical test of Analogical Modeling: The /k/ ~ Ø alternation. In *Analogical Modeling: An Exemplar-based Approach to Language*, ed. by Royal Skousen, Deryle Lonsdale, and Dilworth B. Parkinson. Amsterdam/Philadelphia: John Benjamins.

### ***Journal Articles***

- In preparation    Segmenting words from natural speech: Subsegmental variation in segmental and suprasegmental cues, co-authors: Chris Brew, Eric Fosler-Lussier, Soundararajan Srinivasan.
- In preparation    Statistical word segmentation cues in English and Modern Greek.
- 2005            *An iota of difference: Attitudes to jod in lexical and social contexts.* *Journal of Greek Linguistics*, **6**, pp. 145-179. Amsterdam/Philadelphia: John Benjamins.
- 2003            Review of “Psycholinguistic Studies of Modern Greek: L1 Acquisition and L1/L2 Sentence Processing.” *Journal of Greek Linguistics*, **4**, pp. 152-157. Amsterdam/Philadelphia: John Benjamins.

### ***International Conferences***

- 2006            *Finding the gaps: Applying a connectionist model of word segmentation to noisy phone-recognized speech data.* In *Proceedings of the Ninth International Conference on Spoken Language Processing (Interspeech 2006--ICSLP)*.
- 2006            *Is recurrence redundant? Revisiting Allen and Christiansen (1996).* In *Proceedings of the 28th Annual Conference of the Cognitive Science Society (CogSci 2006)*.
- 2005            *A cost-benefit analysis of hybrid phone-manner representations for ASR.* *HLT-EMNLP 2005*, co-author: Eric Fosler-Lussier.
- 2005            *Phonetic ignorance is bliss: Investigating the effects of phonetic information reduction on ASR performance.* In *Proceedings of the 9th European Conference on Speech Communication and Technology (Interspeech 2005--Eurospeech)*, co-authors: Eric Fosler-Lussier, Soundararajan Srinivasan.
- 2004            *Segment predictability as a cue in word segmentation: Application to modern Greek.* In *Current Themes in Computational Phonology and Morphology: Seventh Meeting of the ACL Special Interest Group for Computational Phonology (SIGPHON)*, pp. 78-85. Barcelona, Spain: The Association for Computational Linguistics.

- 2004 The listener's view of style and the lexicon: Attitudes to /i/ and /j/ in lexical and social contexts. In *Proceedings of the 6th International Conference of Greek Linguistics* ed. by G. Catsimali, A. Kalokairinos, E. Anagnostopoulou, and I. Kappa. Available on CD only.
- 2004 Greek word segmentation using minimal information. In *Proceedings of the Student Research Workshop. HLT-NAACL 2004 Companion Volume*, pp. 207-212. Boston, Massachusetts: The Association for Computational Linguistics.
- 2001 An operator-based account of semantic processing. In *The Acquisition and Representation of Word Meaning*, ed. by Alessandro Lenzi, Simonetta Montemagni, and Vito Pirrelli, pp. 84-92. European Summer School for Logic, Language, and Information (ESSLI 2001), co-author: Deryle Lonsdale.
- 2001 *Integrating WordNet with NL-Soar*. In *WordNet and Other Lexical Resources: Applications, Extensions, and Customizations*. Proceedings of NAACL-2001, pp. 162-164. Association for Computational Linguistics, co-author: Deryle Lonsdale.
- 1999 Small clauses and indirect discourse in Latin prose. In *LACUS Forum XXV*, ed. by Shin Ja J. Hwang & Arle R. Lommel, pp. 443-456. Fullerton, California: The Linguistic Association of Canada and the United States.

## Selected Presentations

- 2007 Modeling word segmentation without assuming phonemic certainty. Invited talk, Pennsylvania State University Center for Language Science, March 23.
- 2007 Distributional cues to word segmentation in Modern Greek. Presented at the 4th Annual OSU Martin Luther King Day Symposium in Linguistics, The Ohio State University, Columbus, Ohio. January 15.
- 2007 Modeling word segmentation without assuming phonemic certainty. Presented at the 81st Annual Meeting of the Linguistic Society of America, Anaheim, California, January 4-7. Co-presenters: Chris Brew, Eric Fosler-Lussier.
- 2006 Analogical change in Greek present and aorist active verbal stems. Presented at The 3rd Annual OSU Martin Luther King Day Symposium in Linguistics: Analogy in Language Change, The Ohio State University, Columbus, Ohio. January 16.
- 2004 Statistical segmental cues for Greek word segmentation. Presented at the First Annual Midwest Computational Linguistics Colloquium (MCLC). Bloomington, IN. June 25-26, 2004.
- 2004 Attitudes to Modern Greek /i/ and /j/ in lexical and social contexts. 1st Pre-Generals Paper, presented at the (1st) OSU Martin Luther King Day Greek Mini-conference, The Ohio State University, Columbus, Ohio.
- 2003 Frequency effects on word final fricative realization in connected speech. Presented at the Mid-Continental Workshop on Phonology. University of Illinois at Urbana-Champaign, co-presenter: Grant McGuire.
- 2003 An iota of difference: Phonetic variation within the lexicon. Presented at the Modern Greek Studies Association. York University, Toronto, Canada.
- 2002 Patterns of word stress in Modern Greek. 2nd Year Colloquium Presentation, The Ohio State University.

2000 Using WordNet to build a semantic representation. Presented at the Twentieth Soar Conference; USC Information Sciences Institute, Marina del Rey, CA.

## Teaching and Work Experience

- 2007 **Lecturer** for Linguistics 615: *Psycholinguistics* (Winter Quarter);  
Linguistics 201: *Introduction to Language* (Spring Quarter)  
OSU Department of Linguistics, Columbus, OH  
*Primary instructor fully responsible for syllabus, preparation, teaching, and grading.*
- 2005 **Teaching Assistant** for Linguistics 384: *Language and Computers* (Summer Quarter)  
OSU Department of Linguistics, Columbus, OH  
*Primary instructor fully responsible for syllabus, preparation, teaching, and grading.*
- 2004-2006 **Research Assistant** for Eric Fosler-Lussier  
OSU Department of Computer Science and Engineering, Columbus, OH  
*Member of the ASAT research team. Presented my own and fellow RAs' research at a multi-university ASAT planning meeting in Atlanta, GA. Presented joint research with Dr. Fosler-Lussier at Interspeech 2006 and HLT 2006.*
- 1999-2001 **Research and Teaching Assistant** for Deryle Lonsdale  
BYU Department of Linguistics, Provo UT  
*Research and development of Natural Language Soar; assisted with linking WordNet 1.6 to NL-Soar and minimizing resultant ambiguities. Main grader for Linguistics 330; conducted study sessions for midterm and final.*
- 2000 **Writing Fellow (Peer Tutor)** under Beth Hedengren  
Writing Across the Curriculum (WAC), Brigham Young University, Provo, UT  
*Tutored students in the writing portion of an introductory Classical Civilization course, Winter Semester 2000.*
- 1998 **Language Instructor (Modern Greek)**  
Missionary Training Center, Provo, UT  
*Taught language and missionary-oriented skills in Modern Greek to volunteer missionaries for the Church of Jesus Christ of Latter-day Saints, Summer 1998.*
- 1997 **Grader/Research Assistant** for Victor Ludlow  
BYU Department of Ancient Scripture, Provo, UT  
*Grader for a 300-level course with additional research duties, Fall 1997.*

## Professional and Community Involvement

### Involvement inside the Ohio State University

- 2004-2006 Member, Speech and Language Technology Lab (Department of Computer Science and Engineering)
- 2003-2006 Member, Laboratory and Computing Committee (Department of Linguistics)  
*This committee is responsible for purchasing and maintaining computer and experimental equipment within the OSU Department of Linguistics, as well as providing tutorials for interested students on the use of equipment and essential software packages. The committee consists of faculty, students, and staff representatives.*
- 2002-2006 Member, OSU Cognitive Science Graduate Student Discussion Group (GradCog)
- 2002-2003 Treasurer, OSU Student Linguistics Association

2000-2002           Coordinator, Speakers Committee  
*Responsible for coordinating nearly all aspects of invited speakers from other universities to the OSU Linguistics Department, including scheduling, accommodations, travel, budget, etc. The Speakers Committee is entirely student-run.*

### **Involvement outside the Ohio State University**

2007                 Reviewer, 29th Annual Conference of the Cognitive Science Society (CogSci 2007)  
2007                 Reviewer, Second European Cognitive Science Conference (EuroCogSci07)  
2005                 Student Volunteer at the 2005 Combined Conference on Human Language Technology and Empirical Methods in Natural Language Processing (HLT-EMNLP)  
2005                 Student Volunteer at the 43<sup>rd</sup> Annual Meeting of the Association for Computational Linguistics  
2005                 Student Volunteer at the Second Midwest Computational Linguistics Colloquium (MCLC)  
2005                 Reviewer, Second Indian International Conference of Artificial Intelligence (IICAI)  
2003-2005           Instructor, English Conversation Courses for non-native speakers  
2000                 Volunteer for English Conversation Partners (OSU)  
2000                 Writing tutor, BYU English Language Center (for non-native English speakers)  
1998-1999           Note-taker, BYU Services for Students with Disabilities  
1997-1999           Tutor, BYU Latin Study Center  
1997-1998           President, BYU Linguistics Society  
1995-1997           Missionary for the Church of Jesus Christ of Latter-day Saints (Athens, Greece and Nicosia, Cyprus)  
1994-1995           Co-chair, BYU Linguistics Society

### **Professional Memberships**

Association for Computational Linguistics (ACL)  
International Speech Communication Association (ICSA)  
Cognitive Science Society  
Linguistic Society of America (LSA)

## **Academic References**

### **Chris Brew**

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