

NAACL HLT 2015

**The Sixth Workshop on Cognitive Modeling and
Computational Linguistics (CMCL)**

Proceedings of the Workshop

June 4, 2015
Denver, Colorado, USA

Thanks to our generous sponsors:

The Center for Cognitive and Brain Sciences at The Ohio State University

The Ohio State University Department of Linguistics

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Introduction

The papers in these proceedings were presented at the 6th annual workshop on Cognitive Modeling and Computational Linguistics (CMCL), held in Denver, Colorado on June 4th, 2015. As with earlier CMCL meetings, CMCL 2015 provided a venue to support a broad spectrum of computational psycholinguistic inquiry. This year, we were pleased to receive fifteen submissions, ten of which were selected for final presentation at the workshop and are included in these proceedings. The submissions this year were exceptionally strong and reviewers commented that many of them could easily have been accepted as main conference submissions. We would like to thank all submitting authors for the quality and variety of the papers we received, and we would like to thank the program committee for their time, expertise, and insightful comments on the submissions. Thanks to the generous support of our sponsors, The Center for Cognitive and Brain Sciences at The Ohio State University and The Ohio State University Department of Linguistics, we were able to obtain invited speakers and provide travel grants to a number of student authors. We extend our appreciation to our invited speakers, Dr. Andrew Kehler of the University of California, San Diego and Dr. Mark Steedman of the University of Edinburgh, for sharing their work with us. Thanks to everyone for your continued support of this workshop and for helping to foster the growth of the field of computational psycholinguistics.

Marten van Schijndel and Tim O'Donnell

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Colin Wilson, Johns Hopkins University
Alessandra Zarcone, Saarland University
Jelle Zuidema, University of Amsterdam

Invited Speakers:

Andrew Kehler, University of California, San Diego
Mark Steedman, University of Edinburgh

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Conference Program

Thursday, June 4, 2015

- 08:55–09:00 Opening Remarks
- 09:00–10:00 Invited Talk by Andrew Kehler
- 10:00–10:30 *Predictions for self-priming from incremental updating models unifying comprehension and production*
Cassandra L. Jacobs
- 10:30–11:00 Coffee Break
- 11:00–11:30 *Pragmatic Alignment on Social Support Type in Health Forum Conversations*
Yafei Wang, John Yen and David Reitter
- 11:30–12:00 *Audience size and contextual effects on information density in Twitter conversations*
Gabriel Doyle and Michael Frank
- 12:00–12:30 *Centre Stage: How Social Network Position Shapes Linguistic Coordination*
Bill Noble and Raquel Fernandez
- 12:30–13:30 Lunch Break
- 13:30–14:00 *Fusion of Compositional Network-based and Lexical Function Distributional Semantic Models*
Spiros Georgiladakis, Elias Iosif and Alexandros Potamianos
- 14:00–14:30 *Verb polysemy and frequency effects in thematic fit modeling*
Clayton Greenberg, Vera Demberg and Asad Sayeed
- 14:30–15:00 *An Evaluation and Comparison of Linguistic Alignment Measures*
Yang Xu and David Reitter
- 15:00–15:30 *Utility-based evaluation metrics for models of language acquisition: A look at speech segmentation*
Lawrence Phillips and Lisa Pearl
- 15:30–16:00 Coffee Break

Thursday, June 4, 2015 (continued)

16:00–16:30 *Evidence of syntactic working memory usage in MEG data*
Marten van Schijndel, Brian Murphy and William Schuler

16:30–17:00 *Modeling fMRI time courses with linguistic structure at various grain sizes*
John Hale, David Lutz, Wen-Ming Luh and Jonathan Brennan

17:00–18:00 Invited Talk by Mark Steedman