

# Workshop on Computational Modelling of Sound Pattern Acquisition

Department of Linguistics  
University of Alberta  
February 13-14, 2010

## Saturday, February 13, 2010

8:00-9	Registration and check-in
9-9:30	Adam Albright (MIT) <i>Well-formedness across the word: Modeling markedness interactions</i>
9:30-10	Vsevolod Kapatinski (U. Oregon) <i>Humans and models learning palatalization patterns in miniature artificial languages: In support of particular salience of typical product characteristics</i>
10-10:30	Jeff Heinz (U. Delaware) <i>Learning gradient long-distance phonotactics by estimating strictly piecewise distributions</i>
10:30-10:50	<i>Break</i>
10:50-11:20	Karen Jesney, Joe Pater & Robert Staubs (UMass) <i>Restrictive learning with distributions over underlying representations</i>
11:20-11:50	Bruce Hayes (UCLA) <i>Accidentally-true constraints in phonotactic learning</i>
11:50-1:30	<i>Lunch (not provided)</i>
1:30-2	Emily Cliff and Robert Kirchner (U. Alberta) <i>Getting type frequency effects in an exemplar model</i>
2-2:30	Andrew Wedel (U. Arizona) <i>Functional load and feedback stabilization of phonemic category distinctions</i>
2:30-3	Fred Mailhot (Carleton) <i>Modelling the acquisition of vowel harmony with a lazy learner</i>
3:00-4:30	<i>Poster session I (light refreshments)</i>
4:30-5	Jeff Mielke (U. Ottawa) <i>Getting the features you want</i>
5-5:30	Janet Pierrehumbert (Northwestern) <i>Predicting variation in the order of acquisition of morphophonological patterns.</i>
6:30-?	<i>Dinner/party</i>

## Poster Session I

1. Hagen Peukert (U. Kassel) *Phonemic distribution of sounds as a basis for word boundary detection in 6- to 8-months-olds*
2. Rebecca Morley (OSU) *From Sound Change to Grammar Change: words, lexicons, and learners*
3. Philip Dilts & Anne-Michelle Tessier (U. Alberta) *A computational implementation of Error-Selective Learning*
4. Ashley Farris-Trimble (U. Iowa) *Modeling the acquisition of cumulative faithfulness effects*
5. Keith S Apfelbaum and Bob McMurray (U. Iowa) *When discrimination is not enough: An associative model of the development of phonological cue weighting.*
6. Frans Adriaans, Natalie Boll-Avetisyan & René Kager (Utrecht) *A Lexicon-Free Approach to the Induction of OCP-Place*
7. Julian Bradfield (U. Edinburgh) *Acquisition and the Complexity of Phonemes and Inventories*
8. Bob McMurray (U. Iowa) and Allard Jongman (U. Kansas) *Statistical and exemplar approaches to speech perception: What abilities must also develop?*
9. Kathryn Pruitt (UMass), Brian Smith (UMass), Andy Martin (UCLA) & Joe Pater (UMass) *A Darwinian account of underrepresentation of doubly marked forms*

**Sunday, February 14, 2010**

9-9:30	Elliott Moreton (UNC) <i>Constraint induction and simplicity bias</i>
9:30-10	Alan Yu (U. Chicago) <i>The implications of analyzing channel bias rationally</i>
10-10:30	Robert Daland (UCLA) <i>Learning metrical segmentation: the problem of function words</i>
10:30-11:45	<i>Poster session II (light refreshments)</i>
11:45-1:15	<i>Lunch (not provided)</i>
1:15-1:45	Benjamin Munson (U. Minnesota), Mary E. Beckman (OSU), Jan Edwards (U. Wisconsin-Madison), Jeff Holliday (OSU), Hannah Julien (U. Minnesota), and Fangfang Li (U. Lethbridge) <i>Modeling the acquisition of anterior lingual sibilant fricatives in English: Integrating behavioral data with computational learning models</i>
1:45-2:15	Paul Boersma & Katerina Chladkova (U. Amsterdam) <i>Phonetic perception-production asymmetries reflect phonological feature structure</i>
2:15-2:45	Michael Becker (Harvard) <i>Target selection in error selective learning</i>
2:45-3:05	<i>Break</i>
3:05-3:35	Andrew Martin (UCLA), Sharon Peperkamp and Emmanuel Dupoux (LCSP) <i>Learning phonemes with a pseudo-lexicon</i>
3:35-4:05	Giorgio Magri (Jean Nicod Institute) <i>An online model of the 'early stage' of the acquisition of phonology</i>

**Poster Session II**

1. Brian Dillon, Ewan Dunbar, Bill Idsardi (U. Maryland) *A single-stage computational model of phoneme category acquisition: Results from Inuktitut*
2. Jeffrey Heinz, Cesar Koirala (U. Delaware) *Feature-based Generalization*
3. Rebecca Colavin, R. Levy, Sharon Rose (UCSD) *Modeling OCP-Place with the Maximum Entropy Phonotactic Learner*
4. Kristine Yu (UCLA) *Linear separability and feature selection in the acquisition of tones*
5. Jan-Willem van Leussen (U. Amsterdam) *The emergence of natural vowel patterns in a phonetic/phonological acquisition model*
6. Jason Naradowsky, Joe Pater, David Smith, Robert Staubs (UMass) *Learning Hidden Metrical Structure with a Log-Linear Model of Grammar*
7. Tamás Biró (U. Amsterdam) *From Performance Errors to Optimal Competence -- Learnability of OT and HG with Simulated Annealing*
8. Robert Kirchner (U. Alberta) *An exemplar based speech production model*
9. John Alderete, Paul Tupper (SFU) and Stefan Frisch (U. S. Fla.) *Phonotactic learning without a priori constraints: A connectionist analysis of Arabic cooccurrence restrictions*