## **UC Merced**

**Proceedings of the Annual Meeting of the Cognitive Science Society** 

## Title

Learning a graph-structured generative probabilistic grammar of linguistic experience

Permalink https://escholarship.org/uc/item/36z070hf

## Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 33(33)

**ISSN** 1069-7977

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Publication Date 2011

Peer reviewed

# Learning a graph-structured generative probabilistic grammar of linguistic experience

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**Abstract:** The mechanisms that allow situated, embodied learning systems employed by human babies or juvenile songbirds to distill their multimodal experience into a form that supports flexible and open-ended generation of behavior are still poorly understood. We describe an ongoing attempt to gain insight into those mechanisms, by developing a biologically motivated model capable of incremental unsupervised learning of a generative probabilistic grammar of behavior, focusing initially on language. The implemented model demonstrates learning from unanno-tated text corpora, including those of transcribed natural speech, while replicating the effect of variation sets on learning, an effect documented in a recent study with human subjects.