



Dataset

Learn-and-Join  
Algorithm

Bayes Net Structure

Relevant Features/  
Family Configurations  
(see text)

Feature Weights

**Alchemy weight learning**  
new component

Components of  
Log-linear Model

Query  
= Target Node Value+  
Input Variable Values.

Feature Function  
= Feature Count

Prediction  
= weighted sum of  
Feature Function Values

Log-linear inference



Learning



Closed-Form Computation