

COMPUTER SCIENCE
SEMINAR

*Hierarchy and Structure: Nonparametric models for space,
language, and relations*

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Abstract: Latent variable models are a powerful tool for analyzing structured data. They are well suited to capture documents, location and preference information. That said, often a simple hierarchical model is insufficient for modeling observations since real data tends to be more nuanced in some aspects rather than others. In other words, descriptions work best if they allow for variable depth and refined descriptions. Models such as the nested Chinese Restaurant Franchise address these issues. I will present examples of their application to location inference for Twitter and structured recommender systems.

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