

The University of Chicago Department of Statistics

Seminars for First Year Ph.D. Students

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## Machine Learning Using Generative Modelling with Dense Deformable Parts

## WEDNESDAY, May 27, 2009, at 3:45 PM 110 Eckhart Hall, 5734 S. University Avenue

## ABSTRACT

We introduce a statistical model for grayscale images of objects. The model uses deformable templates and allows for a wide range of object classes to be modelled. We present the motivation for the model and an estimation strategy based on the EM algorithm. A particular focus is made on images of faces. Applications of the model are presented and discussed.

Information about building access for persons with disabilities may be obtained in advance by calling Kelly Macias at 773.834.5169 or by email (kmacias@galton.uchicago.edu).