



THE UNIVERSITY OF
CHICAGO

Department of Statistics

MASTER'S THESIS PRESENTATION

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Unsupervised Domain Adaptation through Paired Unlabeled Data

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ABSTRACT

Convolutional Neural Networks are capable of classifying images with high accuracy; however, these networks are invariably highly biased to the data domain they are trained on. In this paper we present a method for mitigating this domain bias, by aligning the features produced by a convolutional neural network at a low level, using data that has pairs in both source and target domains. We also show that this domain adaptation process can be done with data points independent of the task the network was originally trained on.