

# UNIVERSITY OF SOUTH FLORIDA

## *Defense of a Master's Thesis*

*Beyond the Hype: Challenges of Neural Networks as Applied to Social  
Networks*

by  
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*For the MS degree in Computer Science*

*Recent advances in neural network-based machine learning algorithms promise a revolution in prediction tasks across a variety of domains. Social media seems an ideal context for applying neural network techniques, as they provide large data sets and challenging prediction objectives. Two studies are conducted in this work exploring potential limitations of deep neural networks. The first describes whether a Generative Adversarial Network can be used for anonymization*