SE-Net – 2012

Pablo Ruiz – Harvard University – October 2018

# What are the innovations?

## CNN to be the best model for image classification

Very daring from my point of view, authors affirm that:

Convolutional neural networks make strong and mostly correct assumptions about the nature of the images, namely stationarity of statistics and locality of pixel dependencies.

Based on that assumption and the need of big models to learn from millions of images, [AlexNet](https://papers.nips.cc/paper/4824-imagenet-classification-with-deep-convolutional-neural-networks.pdf) [1] reuse the convolutional neural network model introduced by [LeCun in 1998](http://yann.lecun.com/exdb/publis/pdf/lecun-98.pdf) [2] to outperform state-of-art