# **STATISTICAL METHOD FOR AUTOMATED CELL DETECTION AND COUNTING** <https://mlbernauer.wordpress.com/2014/12/12/statistical-method-for-automated-cell-detection-and-counting/>

**Some basic segmentation and image processing using some features of Sklearn**

<https://github.com/luispedro/python-image-tutorial>

**Work done using OpenCV and blood cell counting (much easier than neuron counting)**

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8652384>

And associated YouTube Video: <https://www.youtube.com/watch?v=OxZ1FQDT_Wo>

**Cell counting using convolutional neural networks (someone should tackle this one)**

<https://github.com/cxhernandez/cellcount>

<http://www.robots.ox.ac.uk/~vgg/publications/2015/Xie15/weidi15.pdf>

<https://github.com/dlombardo376/CNN-Cell-Counting>

**More cell counting on github:**

<https://github.com/gregstarr/cell-counting>

And

<https://github.com/keshpr/cell_counting>

**Using Keras and tensorflow**

<https://github.com/PreibischLab/dl-cell-counting>

From the readme “For more info read: The implementation of the CNN is taken from J. P. Cohen, H. Z. Lo, and Y. Bengio, “Count-ception: Counting by Fully Convolutional Redundant Counting,” 2017. <https://arxiv.org/abs/1703.08710>”

*AND THE ORIGINAL:* ***Count-Ception: Counting by Fully Convolutional Redundant Counting (***[***arXiv***](http://arxiv.org/abs/1703.08710)***):*** [***https://github.com/ieee8023/countception***](https://github.com/ieee8023/countception)

**Machine Learning plus CNN**

<https://github.com/JizhiziLi/cnn-cell-counting>