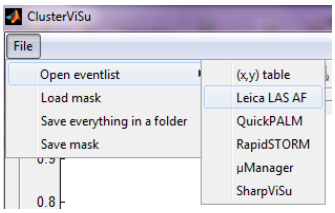
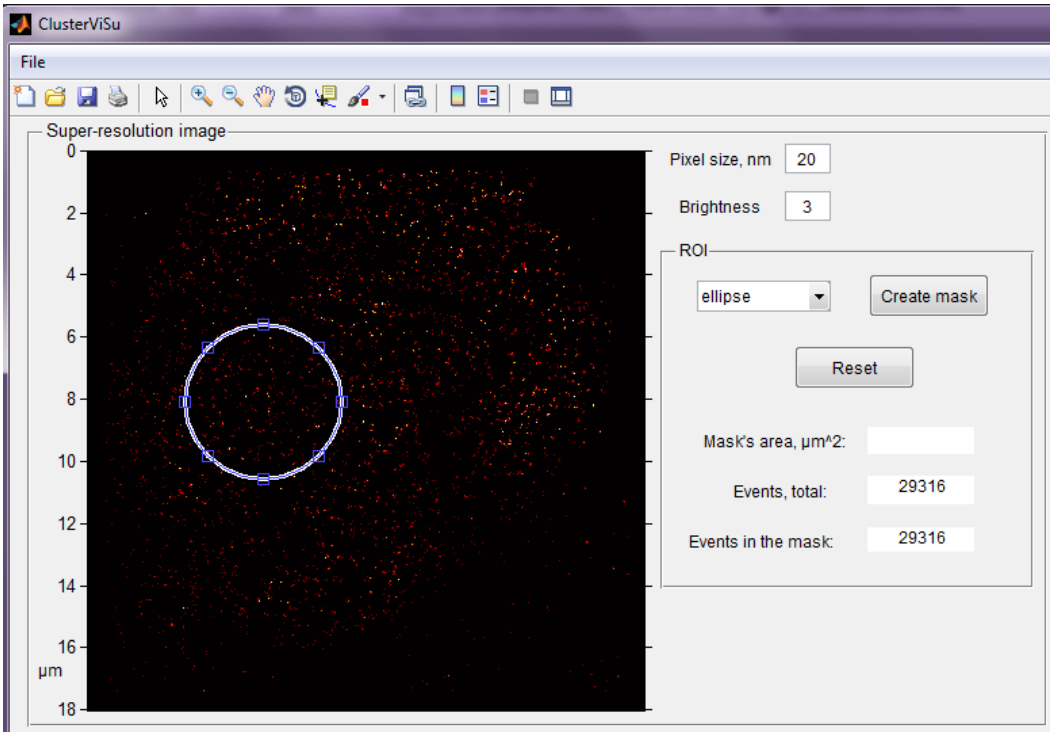
Run ClusterViSu

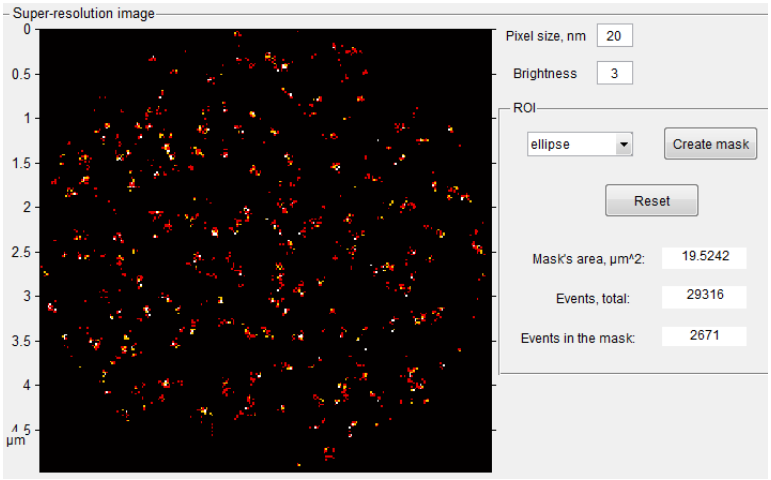
Load file "…\Data\NulcearPores\TPR_alexa647.ascii" using menu File – Open Eventlist – Leica LAS AF



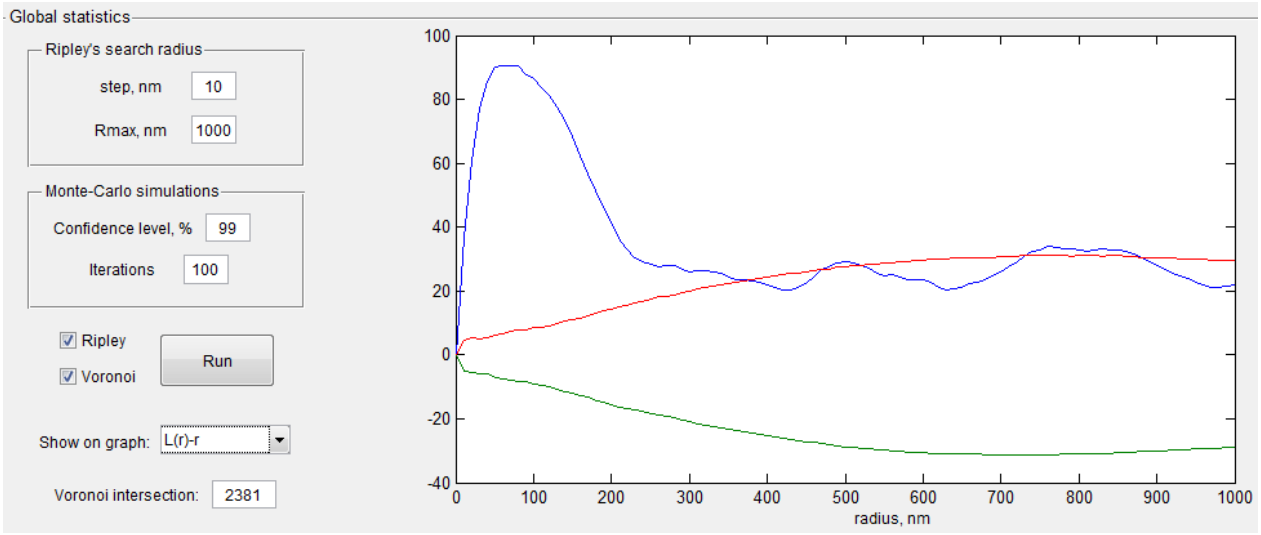
Go to panel ROI and choose method "ellipse", press "Create mask" and draw a ROI on the preview, double click inside the region.



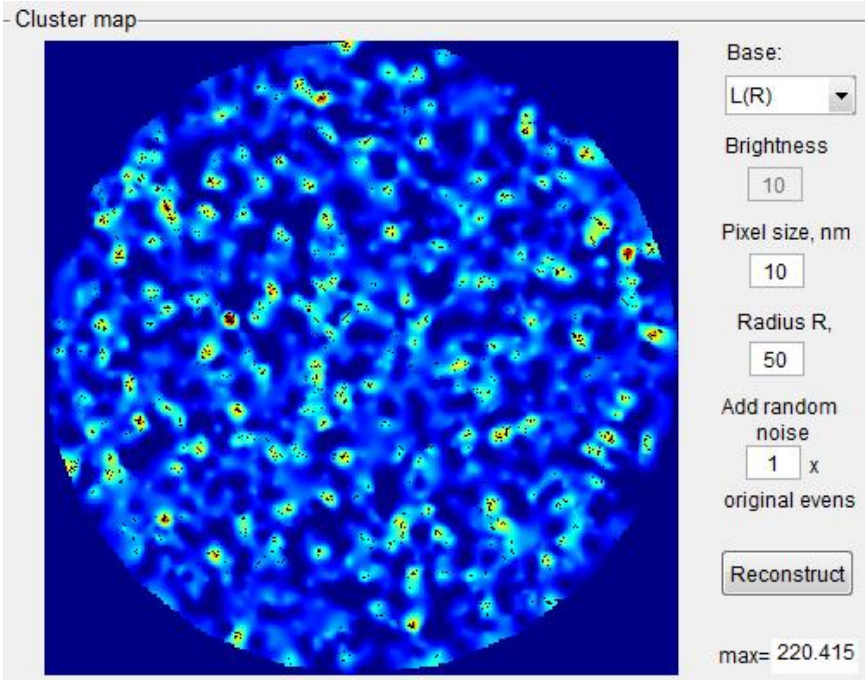
You will see the ROI magnified and some statistics on data inside it.



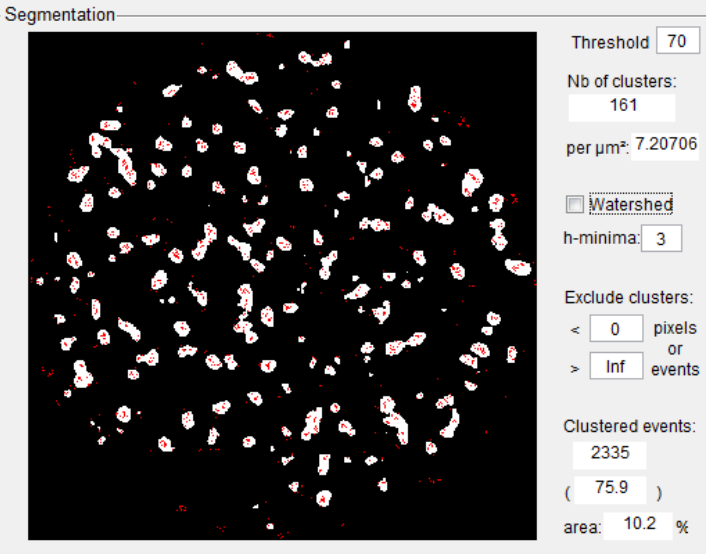
Go to the panel “Global statistics”. Leave all the parameters by default. Press “Run”. You will see waitbars appearing during Monte-Carlo simulations. The software is calculating Ripley’s functions using maximum radius of 1 µm and step of 10 nm, as well as Voronoi diagrams. After the end of the calculations, you can see the functions by selecting them from list “Show on graph”. The experimental values are shown in blue and the boundaries of the confidence envelope is shown in green and red. The abscissa of the intersection between graphs of Voronoi cell areas of the experimental and random data will be shown in “Voronoi intersection”.



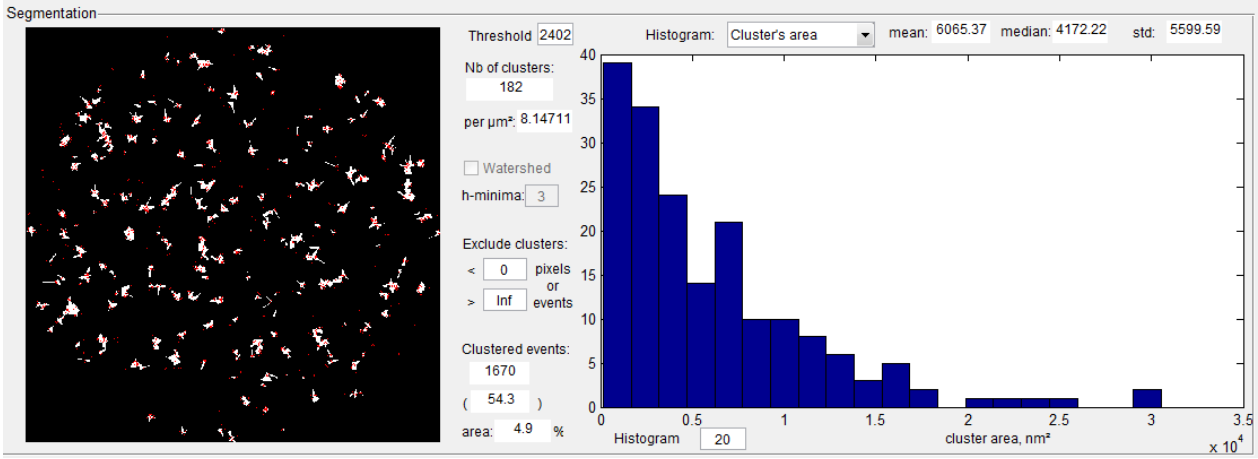
Next, go to the panel “Cluster map” and press “Reconstruct” with parameters by default. After a bit of calculations, you will see the map appeared. Here you can choose different parameters and reconstruct the maps in different modes.



Now go to the panel “Segmentation”. You will already see a segmented image. But to have better results, modify the threshold (e.g. put 70 for L(R) cluster map). You can also exclude small or big clusters. For Voronoi diagrams (the raw one as well as the interpolated one), the automatic threshold should give the best results readily. You will also see some statistics of clusters in this panel.



For detailed statistics, have a look at histograms right hand side. You can change the number of histogram bins in function of number of detected clusters. Look through the different histograms available.



To save the output data, go to File – Save everything in a folder and choose a directory to save the output. All the images and graphs will be saved there automatically (see also the user manual).