# From Single Particle Light Scattering towards Population Behaviour Analysis

DataSenseLabs – with HoloZcan partners – has started uncovering the effect of particle sparsity on the behaviour of micro- and nano-particles to determine the theoretical limits of digital holographic microscopic object detection. The particle simulation results help us understand both the theoretical and the experimental sources of measurement uncertainty of quantitative phase imaging. These results will make it possible to optimize the deep learning and machine learning algorithms developed to support holographic object detection and classification.
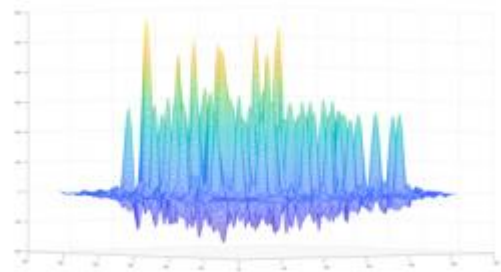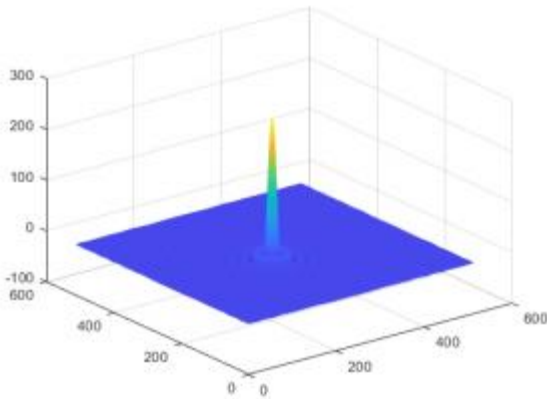
Dr Janos Palhalmi, Anna Mezo

More information about the project can be found at www.HoloZcan.com , and also on LinkedIn at https://www.linkedin.com/company/holozcan/mycompany/ as well as on Twitter @HoloZcan / Contact details: INFO@HoloZcan.com