

Kishan Dholakia, Professor of Physics



Kishan Dholakia is Professor of Physics at the University of St Andrews Scotland and an honorary adjunct Professor at the centre for Optical Sciences at the University of Arizona. He heads a large (20+) group working in various aspects of photonics including micromanipulation and biophotonics. He has published over 300 journal/conference papers, with many in Nature/Science journals, and his group won the European Optics Prize in 2003. He was elected to the position of Fellow of the Royal Society of Edinburgh in 2007 and fellow of the Optical Society of America in 2008. In 2008 He also received a Royal Society Wolfson Merit Award and in 2009 he was made a fellow of SPIE, USA.

He heads the 20+ strong Optical Trapping Group at the University that has attracted over £10M in funding over the last decade. His team have been at the heart of several new advances in the areas of trapping where in particular he has explored optical sorting of cells, optical binding, advanced forms of multiple traps. In the broader area of Biophotonics he has interests in cell transfection with light, neuronal growth and advanced forms of Raman spectroscopy to tackle problems at the interface. The group is well equipped with various microscopes, infra-red cw lasers, a variety of pulsed lasers and appropriate spectrometers and highly sensitive cameras.

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Work Groups

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