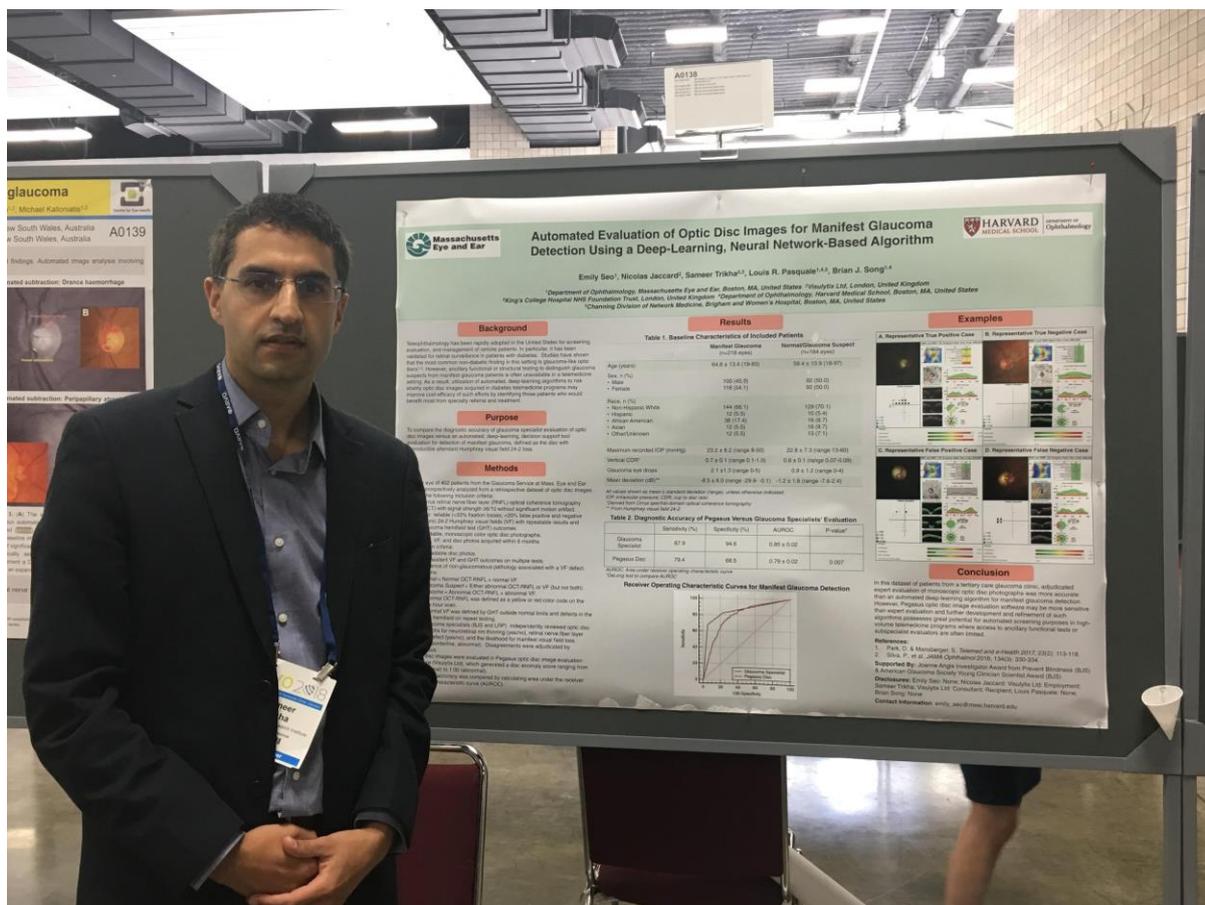


# Visulytix's AI tool equivalent to human experts in glaucoma detection

Visulytix presents at ARVO Annual Meeting 2018



Visulytix announces that Pegasus-disc, its Artificial Intelligence (AI) decision support tool for the analysis of retinal images, has been shown to perform similarly to the consensus opinion of human experts when detecting glaucoma from optic disc images. This follows a study conducted on the images of 186 patients at a major Harvard University teaching hospital.

Glaucoma is a slowly progressive and potentially blinding eye disease that will affect around 80 million people worldwide by 2020. Of note, the condition often has no symptoms in the early stages and so has been labelled 'the silent thief of sight'. Early detection of possible glaucoma through screening is therefore paramount, but there simply aren't enough trained professionals worldwide to manage this increasing burden.

A ground-breaking study was performed in collaboration with experts Dr Brian Song and Professor Louis Pasquale at Massachusetts Eye and Ear Infirmary, Boston, USA. The purpose of the study was to compare the diagnostic accuracy of optic disc image evaluation by a group of glaucoma specialists to Visulytix's Pegasus-disc, an automated, deep learning-based decision support tool.

The study concluded that Pegasus' Artificial Intelligence tool was equivalent to the consensus of two human experts in the detection of glaucoma, and in some cases may have higher sensitivity. It is now being extended to include up to 400 subjects. The study was presented at the Association of Research in Vision and Ophthalmology (ARVO) international meeting being held in Honolulu, Hawaii on Monday 30<sup>th</sup> April 2018.

"Visulytix's technology has enormous potential for high volume screening of patients in telemedicine programs" commented Professor Louis Pasquale of Harvard Medical School faculty. With the

prevalence of glaucoma, along with healthcare costs, rising, this technology will permit high quality care and make it accessible to patients around the world.

The abstract was entitled *“Automated Evaluation of Optic Disc Images for Manifest Glaucoma Detection Using a Deep-Learning, Neural Network-Based Algorithm”*.

**Following the event, Sameer Trikha commented:** “It was a great opportunity to present the findings of our study with Harvard at such a prestigious conference. The results of the study were extremely encouraging as we work towards taking Pegasus to commercialisation worldwide.”

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